

Calibration of the ruby pressure gauge to 800 kbar under

Journal of Geophysical Research

91, 4673-4676

DOI: [10.1029/jb091ib05p04673](https://doi.org/10.1029/jb091ib05p04673)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Raman Spectroscopy of SiO ₂ Glass at High Pressure. Physical Review Letters, 1986, 57, 747-750.	2.9	490
2	Static compression of iron to 78 GPa with rare gas solids as pressure-transmitting media. Journal of Geophysical Research, 1986, 91, 4677-4684.	3.3	259
3	Laser Techniques in High-Pressure Geophysics. Science, 1987, 237, 605-612.	6.0	88
4	Calculation of elasticity and high pressure instabilities in corundum and stishovite with the Potential Induced Breathing Model. Geophysical Research Letters, 1987, 14, 37-40.	1.5	120
5	Mineral and melt physics. Reviews of Geophysics, 1987, 25, 1265-1276.	9.0	45
6	Pressure dependence of Raman spectra of SiO ₂ polymorphs: α -quartz, coesite, and stishovite. Geophysical Monograph Series, 1987, , 347-359.	0.1	85
7	Frequency-dependent equation of state of fused silica to 10 GPa. Physical Review B, 1987, 35, 236-244.	1.1	116
8	Pressure-Induced Structural Phase Transitions in Solid Xenon. Physical Review Letters, 1987, 59, 2670-2673.	2.9	136
9	Quasi-hydrostatic compression of ruby to 500 Kbar. Physics and Chemistry of Minerals, 1988, 16, 207.	0.3	96
10	Pressure-induced amorphization of crystalline silica. Nature, 1988, 334, 52-54.	13.7	608
11	Elastic Properties and Equations of State. , 1988, , .		8
12	Thermal expansion of periclase and olivine and their anharmonic properties. , 1988, , 361-375.		1
13	Hugoniot equation of state of twelve rocks. , 1988, , 199-236.		0
14	Raman spectroscopy and theoretical modeling of BeO at high pressure. Physical Review B, 1988, 37, 4727-4734.	1.1	72
15	Yield strength of MgO to 40 GPa. Journal of Geophysical Research, 1988, 93, 3261-3269.	3.3	123
16	Static compression and equation of state of CaO to 1.35 Mbar. Journal of Geophysical Research, 1988, 93, 15279-15288.	3.3	128
17	High-Pressure Phase Diagram and Equation of State of Solid Helium from Single-Crystal X-Ray Diffraction to 23.3 GPa. Physical Review Letters, 1988, 60, 2649-2652.	2.9	169
18	Phase Transition in Solid Molecular Hydrogen at Ultrahigh Pressures. Physical Review Letters, 1988, 61, 857-860.	2.9	223

#	ARTICLE	IF	CITATIONS
19	Synchrotron X-ray Diffraction Measurements of Single-Crystal Hydrogen to 26.5 Gigapascals. Science, 1988, 239, 1131-1134.	6.0	149
20	The bulk modulus-volume relationship for oxide compounds and related geophysical problems. , 1988, , 153-165.		1
21	Effects of temperature and pressure on interatomic distances in oxygen-based minerals. , 1988, , 407-413.		35
22	Derivation of Wachtman's equation for the temperature dependence of the elastic moduli of oxide compounds. , 1988, , 166-170.		1
23	The bulk modulus-volume relationship for oxides. , 1988, , 283-289.		32
24	The single-crystal elastic moduli of stishovite. , 1988, , 459-465.		0
25	Some elastic constant data on minerals relevant to geophysics. , 1988, , 237-270.		2
26	Composition of the upper mantle: Geophysical tests of two petrological models. , 1988, , 513-516.		1
27	Homogeneity and constitution of the Earth's lower mantle and outer core. , 1988, , 341-348.		0
28	Elasticity and constitution of the Earth's interior. , 1988, , 31-90.		3
29	Theory of binding of ionic crystals: Application to alkali-halide and alkaline-Earth-dihalide crystals. , 1988, , 314-320.		1
30	The determination of the elastic constants of natural almandine-pyropo garnet by rectangular parallelepiped resonance method. , 1988, , 376-383.		8
31	The velocity of compressional waves in rocks to 10 kilobars, part 2. , 1988, , 91-116.		8
32	The elastic properties of composite materials. , 1988, , 384-406.		1
33	The effect of pressure upon the elastic parameters of isotropic solids, according to Murnaghan's theory of finite strain. , 1988, , 21-30.		0
34	Temperature coefficients of elastic constants of single crystal MgO between 80 And 1,300 K. , 1988, , 503-512.		0
35	Density distribution in the Earth. , 1988, , 1-20.		6
36	X-ray diffraction and optical observations on crystalline solids up to 300 kbar. , 1988, , 193-198.		0

#	ARTICLE	IF	CITATIONS
37	Thermal expansion of silicate perovskite and atratification of the Earth's mantle. , 1988, , 521-523.		0
38	Reflection properties of phase transition and compositional change models of the 670-km Discontinuity. , 1988, , 488-502.		0
39	Ab initio structural and thermoelastic properties of orthorhombic MgSiO ₃ perovskite. , 1988, , 517-520.		0
40	Static compression of iron T78 GPa with rare gas solids as pressure-transmitting media. , 1988, , 524-531.		0
41	Equations of state of iron sulfide and constraints on the sulfur content of the Earth. , 1988, , 427-440.		0
42	Post-oxide phases of forsterite and enstatite. , 1988, , 358-360.		0
43	Velocity-density systematics and its implications for the iron content of the mantle. , 1988, , 335-340.		0
44	Composition of the Earth's mantle. , 1988, , 117-133.		0
45	Hydrostatic compression of perovskite-type MgSiO ₃ . , 1988, , 466-474.		0
46	Some geophysical constraints on the chemical composition of the Earth's lower mantle. , 1988, , 475-487.		0
47	Pressure dependence of the thermal Gr ^{1/4} neisen parameter, with application to the Earth's lower mantle and outer core. , 1988, , 349-357.		0
48	Elasticity of coesite. , 1988, , 414-426.		0
49	Velocity-density systematics: Derivation from Debye theory and the effect of ionic size. , 1988, , 305-313.		0
50	Elasticity of pyroxene-garnet and pyroxene-ilmenite phase transformations in germanates. , 1988, , 321-334.		64
51	A seismic equation of state. , 1988, , 171-192.		0
52	Elastic constants of single-crystal forsterite as a function of temperature and pressure. , 1988, , 271-282.		1
53	Equation of state of polycrystalline and single-crystal MgO to 8 kilobars and 800Å°K. , 1988, , 290-304.		0
54	The use of ultrasonic measurements under modest compression to estimate compression at high pressure. , 1988, , 134-152.		0

#	ARTICLE	IF	CITATIONS
55	The temperature of shock compressed iron. , 1988, , 532-541.		0
56	The equation of state for iron and the Earth's core. , 1988, , 446-458.		5
57	Grüneisen parameter of quartz, quartzite, and fluorite at high pressure. , 1988, , 441-445.		0
58	Ruby at high pressure. I. Optical line shifts to 156 GPa. Physical Review B, 1989, 40, 5724-5732.	1.1	120
59	Optical Evidence for the Metallization of Xenon at 132(5) GPa. Physical Review Letters, 1989, 62, 665-668.	2.9	164
60	Evidence for a structural phase transition in solid hydrogen at megabar pressures. Physical Review Letters, 1989, 63, 2080-2083.	2.9	124
61	Isotope effects in dense solid hydrogen: Phase transition in deuterium at 190 ± 20 GPa. Physical Review Letters, 1989, 63, 1393-1395.	2.9	46
62	Evidence for the Insulator-Metal Transition in Xenon from Optical, X-Ray, and Band-Structure Studies to 170 GPa. Physical Review Letters, 1989, 62, 669-672.	2.9	131
63	Direct-band-gap absorption in germanium under pressure. Physical Review B, 1989, 39, 12921-12924.	1.1	35
64	First-principles equation of state of gold. Physical Review B, 1989, 40, 7501-7507.	1.1	45
65	Optical Studies of Hydrogen Above 200 Gigapascals: Evidence for Metallization by Band Overlap. Science, 1989, 244, 1462-1465.	6.0	191
66	Raman study of high pressure induced phase transition in sodium nitrite. Journal of Physics and Chemistry of Solids, 1989, 50, 739-742.	1.9	3
67	X-ray diffraction and equation of state of solid neon to 110 GPa. Physical Review B, 1989, 39, 11820-11827.	1.1	171
68	Bulk moduli of magnesiowüstites from static compression measurements. Journal of Geophysical Research, 1989, 94, 3037-3045.	3.3	53
69	High-pressure measurements at moderate temperatures in a diamond anvil cell with a new optical sensor: SrB ₄ O ₇ :Sm ²⁺ . Journal of Applied Physics, 1989, 66, 366-372.	1.1	121
70	High pressure raman study of PbMoO ₄ . High Pressure Research, 1990, 3, 254-256.	0.4	4
71	Disappearance of the ruby R-line fluorescence under quasihydrostatic pressure and valid pressure range of ruby gauge. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 143, 79-82.	0.9	12
72	Superconductivity at 108 K in YBa ₂ Cu ₄ O ₈ at pressures up to 12 GPa. Physica C: Superconductivity and Its Applications, 1990, 168, 482-488.	0.6	133

#	ARTICLE	IF	CITATIONS
73	High-Pressure Dielectric Catastrophe and the Possibility That the Hydrogen-A Phase Is Metallic. Europhysics Letters, 1990, 11, 775-781.	0.7	38
74	Low-frequency vibrational dynamics and structure of hydrogen at megabar pressures. Physical Review Letters, 1990, 65, 2670-2673.	2.9	80
75	High-pressure triple point in helium: The melting line of helium up to 240 kbar. Physical Review B, 1990, 42, 6106-6109.	1.1	39
76	Deuterated palladium at temperatures from 4.3 to 400 K and pressures to 105 kbar: Search for cold fusion. Physical Review B, 1990, 42, 9143-9146.	1.1	7
77	Pressure dependence of the 4T ₂ and 4T ₁ absorption bands of ruby to 35 GPa. Physical Review B, 1990, 41, 5372-5381.	1.1	114
78	Reply to "Comment on "Ruby at high pressure. I. Optical line shifts to 156 GPa". Physical Review B, 1990, 42, 9191-9192.	1.1	5
79	Infrared reflectance measurements of the insulator-metal transition in solid hydrogen. Physical Review Letters, 1990, 65, 484-487.	2.9	82
80	Equation of state of solid hydrogen and deuterium from single-crystal x-ray diffraction to 26.5 GPa. Physical Review B, 1990, 42, 6458-6470.	1.1	167
81	Critical Behavior in the Hydrogen Insulator-Metal Transition. Science, 1990, 249, 391-393.	6.0	56
82	Effect of pressure on the low-temperature exciton absorption in GaAs. Physical Review B, 1990, 41, 10111-10119.	1.1	117
83	SrB ₄ O ₇ :Sm ²⁺ pressure optical sensor: Investigations in the megabar range. Journal of Applied Physics, 1990, 68, 2351-2354.	1.1	52
84	A system for doing low temperature-high pressure single crystal X-ray diffraction with a synchrotron source. High Pressure Research, 1991, 6, 379-388.	0.4	16
85	Structural phase transitions and optical absorption of LiInSe ₂ under pressure. Physical Review B, 1991, 43, 9635-9642.	1.1	38
86	Experimental determination of element partitioning and calculation of phase relations in the MgO-FeO-SiO ₂ system at high pressure and high temperature. Journal of Geophysical Research, 1991, 96, 2157-2169.	3.3	139
87	Effect of pressure, temperature, and composition on lattice parameters and density of (Fe,Mg)SiO ₃ perovskites to 30 GPa. Journal of Geophysical Research, 1991, 96, 8069-8079.	3.3	306
88	Pressure-induced amorphization of crystalline Bi ₄ Ge ₃ O ₁₂ . Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 156, 450-454.	0.9	13
89	Progress in pressure measurements with luminescence sensors. High Pressure Research, 1991, 7, 73-75.	0.4	66
90	High-Pressure Chemistry of Hydrogen in Metals: In Situ Study of Iron Hydride. Science, 1991, 253, 421-424.	6.0	200

#	ARTICLE	IF	CITATIONS
91	High-pressure dielectric measurements of solid hydrogen to 170 GPa. <i>Nature</i> , 1991, 350, 488-491.	13.7	62
92	Vibrational spectroscopy of aluminate spinels at 1 atm and of MgAl ₂ O ₄ to over 200 kbar. <i>Physics and Chemistry of Minerals</i> , 1991, 18, 279.	0.3	144
93	Ruby at high pressure. III. A pumping scheme for the R lines up to 230 GPa. <i>Physical Review B</i> , 1991, 44, 7202-7208.	1.1	38
94	Absorption and reflectance in hydrogen up to 230 GPa: Implications for metallization. <i>Physical Review Letters</i> , 1991, 66, 193-196.	2.9	71
95	High-pressure optical studies on sulfur to 121 GPa: Optical evidence for metallization. <i>Physical Review Letters</i> , 1991, 67, 2998-3001.	2.9	100
96	Potential use of the ruby R ₂ line shift for static high-pressure calibration. <i>Applied Physics Letters</i> , 1991, 58, 583-585.	1.5	55
97	Proximity-Coupled CuO 2 Planes in High- T _c Superconductors: Evidence from Pressure Experiments up to 34 GPa on Y ₂ Ba ₄ Cu ₇ O _{15.32} . <i>Europhysics Letters</i> , 1992, 20, 41-46.	0.7	12
98	Gap reduction and the collapse of solid C ₆₀ to a new phase of carbon under pressure. <i>Physical Review Letters</i> , 1992, 69, 466-469.	2.9	118
99	Dielectric properties of solid molecular hydrogen at high pressure. <i>Physical Review B</i> , 1992, 45, 9709-9715.	1.1	16
100	High-pressure measurements of the isotopic shift in the melting curve of He. <i>Physical Review Letters</i> , 1992, 69, 1216-1219.	2.9	13
101	Pressure dependence of T _c and H _{c2} of YBa ₂ Cu ₄ O ₈ . <i>Physical Review B</i> , 1992, 45, 3077-3082.	1.1	87
102	Raman measurements of the vibrational properties of H ₂ as a guest molecule in dense helium, neon, argon, and deuterium systems up to 40 GPa. <i>Physical Review B</i> , 1992, 45, 12844-12853.	1.1	61
103	Pressure dependence of the exciton absorption and the electronic subband structure of a Ga _{0.47} In _{0.53} As/Al _{0.48} In _{0.52} As multiple-quantum-well system. <i>Physical Review B</i> , 1992, 45, 6809-6818.	1.1	15
104	Single crystal x-ray diffraction with a synchrotron source in a mdac at low temperature. <i>High Pressure Research</i> , 1992, 8, 691-696.	0.4	9
105	Pressure dependence of high-T _c superconductors. <i>High Pressure Research</i> , 1992, 10, 479-485.	0.4	5
106	Single-crystal X-ray diffraction at high pressures with diamond-anvil cells. <i>Phase Transitions</i> , 1992, 39, 13-32.	0.6	19
107	Calibration of the ruby R ₁ and R ₂ fluorescence shifts as a function of temperature from 0 to 600 K. <i>Journal of Applied Physics</i> , 1992, 72, 5539-5544.	1.1	176
108	Stability of ruby in solid hydrogen at megabar pressures. <i>Physical Review B</i> , 1992, 45, 8108-8111.	1.1	14

#	ARTICLE	IF	CITATIONS
109	Alexandrite as a high-temperature pressure calibrant, and implications for the ruby fluorescence scale. <i>Journal of Applied Physics</i> , 1992, 71, 1579-1582.	1.1	41
110	Simultaneous high-P, high-T X ray diffraction study of $\text{P}2(\text{Mg,Fe})\text{SiO}4$ to 26 GPa and 900 K. <i>Journal of Geophysical Research</i> , 1992, 97, 4489-4495.	3.3	109
111	Low-temperature exciton absorption in InSe under pressure. <i>Physical Review B</i> , 1992, 45, 4221-4226.	1.1	57
112	High pressure refractive index measurements of 4:1 methanol:ethanol. <i>Journal of Applied Physics</i> , 1992, 72, 2453-2461.	1.1	59
113	P-V-T equation of state of magnesiowüstite ($\text{Mg}_{0.6}\text{Fe}_{0.4}\text{O}$). <i>Physics and Chemistry of Minerals</i> , 1992, 18, 416.	0.3	111
114	Stability of high-density clinoenstatite at upper-mantle pressures. <i>Nature</i> , 1992, 358, 322-324.	13.7	208
115	Raman spectroscopy of DMSO and DMSO-H ₂ O mixtures (32 mol% of DMSO) up to 20 GPa. <i>Physica B: Condensed Matter</i> , 1992, 182, 195-200.	1.3	14
116	Pressure dependence of T_c and H_{c2} of $\text{CaLaBaCu}_3\text{O}_7$ up to 50 GPa. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 198, 231-236.	0.6	7
117	The phase diagram of the binary mixture nitrogen-helium at high pressure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 182, 365-387.	1.2	11
118	Pressure induced soft mode phase transition in $\text{Bi}_2\text{Ti}_4\text{O}_{11}$ by Raman scattering. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 163, 135-138.	0.9	7
119	Anomalous low-frequency excitations in diamond-cell studies of hydrogen at megabar pressures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 163, 429-434.	0.9	12
120	Superconductivity at 133 K in $\text{Tl}_2\text{Ba}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+x}$ under high pressure. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 218, 24-28.	0.6	27
121	Compression of γ -MnS (alabandite) and a new high-pressure phase. <i>Physics and Chemistry of Minerals</i> , 1993, 20, 63.	0.3	23
122	Microstructural Observations of α -Quartz Amorphization. <i>Science</i> , 1993, 259, 666-669.	6.0	238
123	Pressure-induced Amorphization of $\text{R-Al}_5\text{Li}_3\text{Cu}$: A Structural Relation Among Amorphous Metals, Quasi-Crystals, and Curved Space. <i>Science</i> , 1993, 260, 202-204.	6.0	23
124	The high-pressure, high-temperature equation of state of calcium fluoride, CaF_2 . <i>Journal of Physics Condensed Matter</i> , 1993, 5, L141-L144.	0.7	53
125	High pressure measurements of the He-Ne binary phase diagram at 296 K: Evidence for the stability of a stoichiometric $\text{Ne}(\text{He})_2$ solid. <i>Physical Review Letters</i> , 1993, 70, 178-181.	2.9	74
126	Deviatoric stress in a quasi-hydrostatic diamond anvil cell: Effect on the volume-based pressure calibration. <i>Geophysical Research Letters</i> , 1993, 20, 1147-1150.	1.5	108

#	ARTICLE	IF	CITATIONS
127	Static compression of Mg(OH) ₂ to 78 GPa at high temperature and constraints on the equation of state of fluid H ₂ O. Journal of Geophysical Research, 1993, 98, 11875-11884.	3.3	96
128	Raman spectra of forsterite and fayalite at high pressures and room temperature. High Pressure Research, 1993, 11, 241-256.	0.4	20
129	d-orbital theory for an octahedral-site-symmetry crystal and pressure-induced spectral shifts in ruby. Physical Review B, 1993, 48, 68-72.	1.1	2
130	Elasticity of hydrogen to 24 GPa from single-crystal Brillouin scattering and synchrotron x-ray diffraction. Physical Review B, 1993, 48, 9246-9255.	1.1	72
131	X-ray-diffraction study of sulfur to 32 GPa: Amorphization at 25 GPa. Physical Review B, 1993, 48, 569-572.	1.1	63
132	Pressure-induced amorphization of wollastonite (CaSiO ₃) at room temperature. Journal of Chemical Physics, 1993, 98, 9830-9834.	1.2	32
133	Experimental investigation of solidification in He ₄ , He ₃ , and Ne at very high pressure. Physical Review Letters, 1993, 70, 2106-2109.	2.9	5
134	Anomalous behavior of the vibrational spectrum of the high-pressure β' phase of nitrogen: A second-order transition. Physical Review Letters, 1993, 71, 2252-2255.	2.9	50
135	Pressure dependence of the superconducting transition temperature in single crystals of Tl ₂ Ba ₂ Ca ₂ Cu ₃ O _{10-x} . Physical Review B, 1993, 47, 5524-5527.	1.1	40
136	Remarkable high pressure phase line of orientational order in solid hydrogen deuteride. Physical Review Letters, 1993, 71, 3814-3817.	2.9	56
137	Pressure dependence of the vibron in H ₂ , HD, and D ₂ : Implications for inter- and intramolecular forces. Physical Review B, 1993, 48, 12613-12619.	1.1	28
138	Equation of state and phase diagram of solid He ₄ from single-crystal x-ray diffraction over a large P-T domain. Physical Review Letters, 1993, 71, 2272-2275.	2.9	134
139	Compressibility of Tl ₂ Ba ₂ CaCu ₂ O ₈ + δ . AIP Conference Proceedings, 1994, , .	0.3	1
140	High Pressure Experiments for Astrophysics. International Astronomical Union Colloquium, 1994, 147, 239-271.	0.1	0
141	Edge effects in molybdenum-encapsulated molten silicate shock wave targets. Journal of Applied Physics, 1994, 75, 1426-1434.	1.1	12
142	Collapse of the Hartree term of the Coulomb interaction in a very dilute 2D electron gas. Physical Review Letters, 1994, 72, 4029-4032.	2.9	56
143	State mixing in InAs/GaAs quantum dots at the pressure-induced Γ^c -X crossing. Physical Review B, 1994, 50, 18420-18425.	1.1	42
144	Optical reflectivity and Raman spectra of Sr ₂ FeO ₄ under pressure. Physical Review B, 1994, 50, 11396-11402.	1.1	18

#	ARTICLE	IF	CITATIONS
145	Compressibility of the $\text{HgBa}_2\text{Ca}_{n-1}\text{Cu}_n\text{O}_{2n+2}\text{F}$ ($n=1,2,3$) high-temperature superconductors. <i>Physical Review B</i> , 1994, 49, 15299-15304.	1.1	30
146	Compression of $\text{Ar}(\text{H}_2)_2$ up to 175 GPa: A new path for the dissociation of molecular hydrogen?. <i>Physical Review Letters</i> , 1994, 72, 1360-1363.	2.9	108
147	Pressure-Induced Transformations of the Low-Cristobalite Phase of GaPO_4 . <i>Physical Review Letters</i> , 1994, 73, 1644-1647.	2.9	28
148	Optical, x-ray, and band-structure studies of iodine at pressures of several megabars. <i>Physical Review B</i> , 1994, 49, 3725-3733.	1.1	40
149	Intervalley scattering potentials of Ge from direct exciton absorption under pressure. <i>Physical Review B</i> , 1994, 49, 8017-8023.	1.1	35
150	Pressure dependence of Sm:YAG fluorescence to 50 GPa: A new calibration as a high pressure scale. <i>Journal of Applied Physics</i> , 1994, 75, 1463-1466.	1.1	29
151	Photoluminescence from strained InAs monolayers in GaAs under pressure. <i>Physical Review B</i> , 1994, 50, 1575-1581.	1.1	49
152	High pressure Raman spectra of $\beta\text{-Mg}_2\text{SiO}_4$, $\gamma\text{-Mg}_2\text{SiO}_4$, MgSiO_3 -ilmenite and MgSiO_3 -perovskite. <i>Journal of Physics and Chemistry of Solids</i> , 1994, 55, 185-193.	1.9	44
153	Calorimetric study of high pressure polymorphism in FeTiO_3 : Stability of the perovskite phase. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 207.	0.3	57
154	Hydrostatic compression of $\beta\text{-Mg}_2\text{SiO}_4$ to mantle pressures and 700 K: Thermal equation of state and related thermoelastic properties. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 407.	0.3	81
155	Raman spectroscopic study of high-pressure phase transitions in cristobalite. <i>Physics and Chemistry of Minerals</i> , 1994, 21, 481.	0.3	44
156	Pressure dependence of the superconducting critical temperature T_c of $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+x}$ up to 26 GPa. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 893-894.	0.6	12
157	High-pressure X-ray diffraction study of diasporite. <i>Solid State Communications</i> , 1994, 90, 497-500.	0.9	22
158	Pressure dependence of photoluminescence in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{Al}_y\text{Ga}_{1-y}\text{As}$ strained quantum wells with different widths. <i>Solid-State Electronics</i> , 1994, 37, 885-888.	0.8	8
159	Characterization of the new luminescence pressure sensor $\text{SrFCl}:\text{Sm}^{2+}$. <i>High Pressure Research</i> , 1994, 12, 91-99.	0.4	63
160	Equations of state and thermodynamic properties of enstatite pyroxenes. <i>Journal of Geophysical Research</i> , 1994, 99, 19777-19783.	3.3	130
161	Photoluminescence Studies of $[(\text{CdSe})_1(\text{ZnSe})_2]_9\text{-ZnSeTe}$ Multiple Quantum Wells Under High Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1994, 358, 1017.	0.1	0
162	Sound Velocities in Dense Hydrogen and the Interior of Jupiter. <i>Science</i> , 1994, 263, 1590-1593.	6.0	69

#	ARTICLE	IF	CITATIONS
163	Sound velocity of Al ₂ O ₃ to 616 kbar. <i>Physics of the Earth and Planetary Interiors</i> , 1994, 87, 77-83.	0.7	13
164	Crystal structural variation and phase transition in caesium trichlorocuprate at high pressure. <i>Journal of Physics Condensed Matter</i> , 1994, 6, 3125-3136.	0.7	9
165	Acoustic velocities and refractive index of SiO ₂ glass to 57.5 GPa by Brillouin scattering. <i>Physical Review B</i> , 1994, 50, 13105-13112.	1.1	224
166	Pressure Induced Metastable Amorphization of BAs: Evidence for a Kinetically Frustrated Phase Transformation. <i>Physical Review Letters</i> , 1994, 73, 2476-2479.	2.9	69
167	Photoluminescence Studies of GaN and AlGaN Layers Under Hydrostatic Pressure. <i>Materials Research Society Symposia Proceedings</i> , 1995, 378, 509.	0.1	4
168	Fine Structure of the 3.42 eV Emission Band in GaN. <i>Materials Research Society Symposia Proceedings</i> , 1995, 395, 571.	0.1	23
169	High pressure study of ¹¹⁴ X mixing in InAs/GaAs quantum dots. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 385-388.	1.9	14
170	Raman investigation of the supercritical mixture He-H ₂ . <i>International Journal of Thermophysics</i> , 1995, 16, 965-971.	1.0	4
171	Single-crystal x-ray diffraction of brucite to 14 GPa. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 277.	0.3	49
172	A high P-T single-crystal X-ray diffraction study of thermoelasticity of MgSiO ₃ orthoenstatite. <i>Physics and Chemistry of Minerals</i> , 1995, 22, 393.	0.3	61
173	Transformation of stishovite to a denser phase at lower-mantle pressures. <i>Nature</i> , 1995, 374, 243-245.	13.7	311
174	Stability of O ₂ /H ₂ mixtures at high pressure. <i>Nature</i> , 1995, 378, 44-46.	13.7	34
175	Elasticity of forsterite to 16 GPa and the composition of the upper mantle. <i>Nature</i> , 1995, 378, 170-173.	13.7	164
176	High pressure X-ray and Raman study of ZnSe. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 521-524.	1.9	48
177	Band gap and index of refraction of CsH to 251 GPa. <i>Solid State Communications</i> , 1995, 95, 385-388.	0.9	28
178	Anisotropic thermal expansion of calcite at high pressures; an in situ X-ray diffraction study in a hydrothermal diamond-anvil cell. <i>American Mineralogist</i> , 1995, 80, 941-946.	0.9	11
179	High-pressure phase transition in brucite, Mg(OH) ₂ . <i>American Mineralogist</i> , 1995, 80, 222-230.	0.9	140
180	Micro-Raman study of the role of pressure in mercury-based superconductors. <i>Physical Review B</i> , 1995, 51, 644-647.	1.1	16

#	ARTICLE	IF	CITATIONS
181	Electronic subband structure of InP/In _x Ga _{1-x} P quantum islands from high-pressure photoluminescence and photoreflectance. <i>Physical Review B</i> , 1995, 52, 12212-12217.	1.1	22
182	The equation of state of polyamorphic germania glass: A two-domain description of the viscoelastic response. <i>Journal of Chemical Physics</i> , 1995, 102, 6851-6857.	1.2	128
183	Theoretical calculations of pressure-induced shifts of the entire energy spectrum of ruby. <i>Journal of Physics Condensed Matter</i> , 1995, 7, 4883-4893.	0.7	19
184	A new unquenchable high-pressure polymorph of Ca ₃ Al ₂ Si ₃ O ₁₂ . <i>Physics of the Earth and Planetary Interiors</i> , 1995, 92, 25-31.	0.7	27
185	New High-Pressure Structural Transition of Oxygen at 96 GPa Associated with Metallization in a Molecular Solid. <i>Physical Review Letters</i> , 1995, 74, 4690-4693.	2.9	181
186	Compression behavior of NiO in a diamond cell. <i>High Pressure Research</i> , 1995, 13, 307-319.	0.4	19
187	LO-Phonon-plasmon modes in n-GaAs and n-InP under pressure. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 567-570.	1.9	8
188	Diamond anvil cell study of the transformation mechanism from the olivine to spinel phase in Co ₂ SiO ₄ , Ni ₂ SiO ₄ , and Mg ₂ GeO ₄ . <i>Journal of Geophysical Research</i> , 1995, 100, 17715-17723.	3.3	19
189	Measurement of melting temperatures of some minerals under lower mantle pressures. <i>Journal of Geophysical Research</i> , 1995, 100, 17699-17713.	3.3	173
190	High pressure study on the Raman spectra of fluid nitrogen and nitrogen in helium. <i>Journal of Chemical Physics</i> , 1996, 104, 9388-9400.	1.2	31
191	Brillouin scattering and ultrasonic studies at high temperature and high pressure. <i>Chemical Geology</i> , 1996, 128, 17-24.	1.4	4
192	Effects of Pressure on the Azafullerene (C ₅₉ N) ₂ Molecular Solid to 22 GPa. <i>Journal of the American Chemical Society</i> , 1996, 118, 8715-8716.	6.6	42
193	High-pressure phase transition in Al(OH) ₃ : Raman and X-ray observations. <i>Geophysical Research Letters</i> , 1996, 23, 3083-3086.	1.5	35
194	Effects of static non-hydrostatic stress on the R lines of ruby single crystals. <i>Geophysical Research Letters</i> , 1996, 23, 3539-3542.	1.5	75
195	Thermodynamic properties and hydrogen speciation from vibrational spectra of dense hydrous magnesium silicates. <i>Physics and Chemistry of Minerals</i> , 1996, 23, 361.	0.3	67
196	The fluorescence sideband method for obtaining acoustic velocities at high compressions: application to MgO and MgAl ₂ O ₄ . <i>Physics and Chemistry of Minerals</i> , 1996, 23, 25.	0.3	39
197	Thermal expansivity of lower mantle phases MgO and MgSiO ₃ perovskite at high pressure derived from vibrational spectroscopy. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 98, 3-15.	0.7	73
198	Ultra-high pressures in gem anvil cells. <i>High Pressure Research</i> , 1996, 15, 127-134.	0.4	20

#	ARTICLE	IF	CITATIONS
199	Effect of pressure on the optical-absorption edges of CsGeBr ₃ and CsGeCl ₃ . Physical Review B, 1996, 53, 12545-12548.	1.1	66
200	Pressure-induced disordering of sodium potassium sulfates and chromates. Physical Review B, 1996, 54, 7026-7033.	1.1	14
201	Compression of Ice to 210 Gigapascals: Infrared Evidence for a Symmetric Hydrogen-Bonded Phase. Science, 1996, 273, 218-220.	6.0	294
202	Experimental studies of Earth's deep interior: accuracy and versatility of diamond-anvil cells. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1996, 354, 1315-1332.	1.6	36
203	Electrical Resistance Measurement of Oxygen under High Pressure. Journal of the Physical Society of Japan, 1996, 65, 1527-1528.	0.7	13
204	Absorption, luminescence and Raman spectroscopy of poly(p-phenylene vinylene) at high pressure. Polymer, 1996, 37, 4961-4968.	1.8	69
205	Structural and Optical Properties of HgO at High Pressure. Physica Status Solidi (B): Basic Research, 1996, 198, 411-418.	0.7	4
206	X-ray diffraction and equation of state of hydrogen at megabar pressures. Nature, 1996, 383, 702-704.	13.7	411
207	Compounds of simple molecular systems at high pressure. High Pressure Research, 1996, 14, 353-361.	0.4	4
208	Plasmon Raman scattering and photoluminescence of heavily doped n-type InP near the $\hat{\Gamma}$ -X crossover. Physical Review B, 1996, 53, 1287-1293.	1.1	41
209	Raman excitations and orientational ordering in deuterium at high pressure. Physical Review B, 1996, 54, R15590-R15593.	1.1	48
210	Extended Infrared Studies of High Pressure Hydrogen. Physical Review Letters, 1996, 76, 1663-1666.	2.9	88
211	Excitation of ruby fluorescence at multimegabar pressures. Review of Scientific Instruments, 1996, 67, 4275-4278.	0.6	26
212	Orientational behavior of solid nitrogen at high pressures investigated by vibrational Raman spectroscopy. Journal of Chemical Physics, 1996, 105, 2553-2560.	1.2	33
213	High-pressure study of optical transitions in strained In _{0.2} Ga _{0.8} As/GaAs multiple quantum wells. Physical Review B, 1996, 54, 13820-13826.	1.1	9
214	High-pressure Raman spectroscopy of solid oxygen. Physical Review B, 1996, 54, R15602-R15605.	1.1	56
215	Pressure dependence of the superconducting critical temperature of HgBa ₂ Ca ₂ Cu ₃ O _{8+y} and HgBa ₂ Ca ₃ Cu ₄ O _{10+y} up to 30 GPa. Physical Review B, 1996, 54, 4265-4275.	1.1	49
216	Pressure dependence of the superconducting critical temperature of Tl ₂ Ba ₂ Ca ₂ Cu ₃ O _{10+y} and Tl ₂ Ba ₂ Ca ₃ Cu ₄ O _{12+y} up to 21 GPa. Physical Review B, 1996, 54, 10175-10185.	1.1	36

#	ARTICLE	IF	CITATIONS
217	Immagphase of germanium at $\approx 1/480$ GPa. Physical Review B, 1996, 53, R2907-R2909.	1.1	58
218	Theoretical and experimental investigation of the equations of state and phase stabilities of MgS and CaS. Journal of Physics Condensed Matter, 1996, 8, 8251-8265.	0.7	33
219	High-pressure Raman studies of a nitrogen - helium mixture up to 40 GPa. Journal of Physics Condensed Matter, 1997, 9, 11219-11226.	0.7	8
220	IR spectroscopy of alkali halides at very high pressures: Calculation of equations of state and of the response of bulk moduli to the B1 \rightarrow B2 phase transition. Physical Review B, 1997, 56, 5835-5855.	1.1	64
221	Superconducting Tc and Electron-Phonon Coupling in Nb to 132 GPa: Magnetic Susceptibility at Megabar Pressures. Physical Review Letters, 1997, 79, 4262-4265.	2.9	105
222	Pressure-Induced Molecular Dissociation and Metallization in Hydrogen-Bonded H ₂ S Solid. Physical Review Letters, 1997, 79, 1082-1085.	2.9	71
223	Pressure dependence of the superconducting critical temperature of the Tl _{0.5} Pb _{0.5} Sr ₂ Ca _{1-x} Y _x Cu ₂ O ₇ system. Physical Review B, 1997, 55, 11832-11838.	1.1	20
224	Hydrostatic-pressure coefficient of the indirect gap and fine structure of the valence band of 6H-SiC. Physical Review B, 1997, 56, 7348-7355.	1.1	15
225	Size criterion for amorphization of molecular ionic solids. Physical Review B, 1997, 55, 14765-14769.	1.1	25
226	Effect of pressure on Raman phonons in zirconium metal. Physical Review B, 1997, 56, 10751-10753.	1.1	43
227	X-ray diffraction and absorption at extreme pressures. Review of Scientific Instruments, 1997, 68, 1629-1647.	0.6	17
228	The Ruby Scale at Megabar Pressures. Materials Research Society Symposia Proceedings, 1997, 499, 265.	0.1	1
229	Ruby's Optical Transitions: Effects of Pressure-Induced Phase Transformation. Materials Research Society Symposia Proceedings, 1997, 499, 275.	0.1	1
230	Progress in the Search for Metallic Hydrogen: 342 GPa. Materials Research Society Symposia Proceedings, 1997, 499, 341.	0.1	0
231	High-Pressure Raman Scattering of Biaxially Strained GaN on GaAs. Materials Research Society Symposia Proceedings, 1997, 468, 225.	0.1	5
232	The diamond ¹³ C/ ¹² C isotope Raman pressure sensor system for high-temperature/pressure diamond-anvil cells with reactive samples. Journal of Applied Physics, 1997, 82, 3256-3265.	1.1	88
233	Lifetime of Phonons in Semiconductors under Pressure. Physical Review Letters, 1997, 78, 1283-1286.	2.9	76
234	Raman spectroscopy study of ZnSe and Zn _{0.84} Fe _{0.16} Se at high pressures. Physical Review B, 1997, 55, 13641-13646.	1.1	64

#	ARTICLE	IF	CITATIONS
235	Improved calibration of the SrB ₄ O ₇ :Sm ²⁺ optical pressure gauge: Advantages at very high pressures and high temperatures. <i>Journal of Applied Physics</i> , 1997, 81, 3333-3339.	1.1	215
236	The elastic constants of San Carlos olivine to 17 GPa. <i>Journal of Geophysical Research</i> , 1997, 102, 12253-12263.	3.3	306
237	High-pressure phases of PbF ₂ : A joint experimental and theoretical study. <i>Physical Review B</i> , 1997, 56, 543-551.	1.1	27
238	Effect of Ca ²⁺ and Fe ²⁺ on the equation of state of MgSiO ₃ orthopyroxene. <i>Journal of Geophysical Research</i> , 1997, 102, 12333-12340.	3.3	35
239	The equation of state and high-pressure behavior of magnesite. <i>American Mineralogist</i> , 1997, 82, 682-688.	0.9	71
240	Superconductivity at 10 K in compressed sulphur. <i>Nature</i> , 1997, 390, 382-384.	13.7	197
241	Infrared reflectance spectra of fayalite, and absorption data from assorted olivines, including pressure and isotope effects. <i>Physics and Chemistry of Minerals</i> , 1997, 24, 535-546.	0.3	55
242	Compressibility and crystal structure of sillimanite, Al ₂ SiO ₅ , at high pressure. <i>Physics and Chemistry of Minerals</i> , 1997, 25, 39-47.	0.3	68
243	Carbon Monoxide: Spectroscopic Characterization of the High-Pressure Polymerized Phase. <i>Journal of Low Temperature Physics</i> , 1998, 111, 247-256.	0.6	45
244	Title is missing!. <i>Journal of Low Temperature Physics</i> , 1998, 111, 349-355.	0.6	1
245	Pressure-Induced Phase Transformation of LiIn and LiCd: From NaTi-Type Phases to ² -Brass-Type Alloys. <i>Journal of Solid State Chemistry</i> , 1998, 137, 104-111.	1.4	8
246	Interlayer proton transfer in brucite under pressure by polarized IR spectroscopy to 5.3 GPa. <i>Physics and Chemistry of Minerals</i> , 1998, 25, 197-202.	0.3	28
247	Phase transitions of Zn _{0.84} Fe _{0.16} Se under high-pressure. <i>Solid State Communications</i> , 1998, 107, 217-221.	0.9	8
248	Structural phase transition of HoGa ₂ at high pressure. <i>Journal of Alloys and Compounds</i> , 1998, 268, 161-165.	2.8	21
249	The system CO ₂ -N ₂ at high pressure and applications to fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2837-2843.	1.6	9
250	Brillouin scattering and X-ray diffraction of San Carlos olivine: direct pressure determination to 32 GPa. <i>Earth and Planetary Science Letters</i> , 1998, 159, 25-33.	1.8	132
251	High-pressure isosymmetric phase transition in orthorhombic lead fluoride. <i>Physical Review B</i> , 1998, 57, 7551-7555.	1.1	45
252	Influence of pressure on the crystal structure of Nd ₂ CuO ₄ . <i>Journal of Materials Chemistry</i> , 1998, 8, 2729-2732.	6.7	15

#	ARTICLE	IF	CITATIONS
253	Crystal Structure of Cesium-V. Physical Review Letters, 1998, 81, 2711-2714.	2.9	111
254	Molecular Force Measurement in Liquids and Solids Using Vibrational Spectroscopy. Journal of Physical Chemistry B, 1998, 102, 3354-3362.	1.2	19
255	Metallization and superconductivity in CsI at pressures up to 220 GPa. Journal of Physics Condensed Matter, 1998, 10, 11519-11523.	0.7	12
256	Chapter 4 Optical Properties of Semiconductors under Pressure. Semiconductors and Semimetals, 1998, 54, 247-425.	0.4	62
257	Raman study of phase D at various pressures and temperatures. Geophysical Research Letters, 1998, 25, 3453-3456.	1.5	12
258	Diamond Anvil Cells in High-Pressure Studies of Semiconductors. Semiconductors and Semimetals, 1998, 55, 381-436.	0.4	10
259	Metallic CsI at Pressures of up to 220 Gigapascals. , 1998, 281, 1333-1335.		115
260	Raman scattering from defects in GaN: The question of vibrational or electronic scattering mechanism. Physical Review B, 1998, 58, 13619-13626.	1.1	25
261	Melting and liquid structure of aluminum oxide using a molecular-dynamics simulation. Physical Review E, 1998, 57, 1673-1676.	0.8	54
262	Microscopic origin of the high-pressure-induced spectral shifts in ruby. Journal of Chemical Physics, 1998, 109, 8003-8009.	1.2	28
263	The vibrational frequency of nitrogen near the fluidâ€“solid transition in the pure substance and in mixtures. Journal of Chemical Physics, 1998, 108, 2695-2702.	1.2	16
264	Equation of state of wurtzitic boron nitride to 66 GPa. Applied Physics Letters, 1998, 72, 1691-1693.	1.5	59
265	The stability of almandine at high pressures and temperatures. Geophysical Monograph Series, 1998, , 393-400.	0.1	2
266	Vibrational studies on CO ₂ up to 40 GPa by Raman spectroscopy at room temperature. Physical Review B, 1998, 57, 879-888.	1.1	47
267	Raman spectra and phase behavior of the mixed solid N ₂ at high pressure. Physical Review B, 1998, 57, 10407-10413.	1.1	6
268	Effect of pressure on the crystal structure, vibrational modes, and electronic excitations of HgO. Physical Review B, 1998, 57, 153-160.	1.1	25
269	Equation of state of ⁷ LiH and ⁷ LiD from x-ray diffraction to 94 GPa. Physical Review B, 1998, 57, 10403-10406.	1.1	65
270	Index of refraction, polarizability, and equation of state of solid molecular hydrogen. Physical Review B, 1998, 57, 14105-14109.	1.1	35

#	ARTICLE	IF	CITATIONS
271	High-pressure P2 ₁ /c-C2/c phase transitions in clinopyroxenes; influence of cation size and electronic structure. <i>American Mineralogist</i> , 1998, 83, 1176-1181.	0.9	51
272	Isothermal compression curve of Al ₂ SiO ₅ kyanite. <i>Geophysical Monograph Series</i> , 1998, , 281-286.	0.1	1
273	High-pressure single-crystal X-ray diffraction and infrared spectroscopic studies of the C2/m-P2 ₁ /m phase transition in cummingtonite. <i>American Mineralogist</i> , 1998, 83, 288-299.	0.9	34
274	Compression of PON cristobalite to 70 GPa. <i>Geophysical Monograph Series</i> , 1998, , 105-117.	0.1	2
275	Laser-heating through a diamond-anvil cell: Melting at high pressures. <i>Geophysical Monograph Series</i> , 1998, , 197-213.	0.1	10
276	High pressure single crystal X-ray diffraction study on ruby up to 31 GPa. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 1999, 214, 331-336.	0.4	24
277	Raman and infrared study of phase transitions in solid HBr under pressure. <i>Physical Review B</i> , 1999, 59, 11244-11250.	1.1	39
278	Lattice phonon modes of the high-pressure phase CuCl-IV. <i>Physical Review B</i> , 1999, 60, 9410-9415.	1.1	9
279	High-pressure Raman investigation of mutual solubility and compound formation in Xe [~] N ₂ and Ne [~] N ₂ . <i>Physical Review B</i> , 1999, 60, 12635-12643.	1.1	8
280	Raman linewidths of optical phonons in 3C [~] SiC under pressure: First-principles calculations and experimental results. <i>Physical Review B</i> , 1999, 59, 6774-6783.	1.1	65
281	The NaCl pressure standard. <i>Journal of Applied Physics</i> , 1999, 86, 5801-5808.	1.1	191
282	Clathrate hydrates in the system H ₂ O [~] Ar at pressures and temperatures up to 30 kbar and 140 [~] Å°C. <i>Journal of Chemical Physics</i> , 1999, 111, 10242-10247.	1.2	44
283	Rubidium-IV: A High Pressure Phase with Complex Crystal Structure. <i>Physical Review Letters</i> , 1999, 83, 4085-4088.	2.9	96
284	Infrared absorption study of Fermi resonance and hydrogen-bond symmetrization of ice up to 141 GPa. <i>Physical Review B</i> , 1999, 60, 12644-12650.	1.1	68
285	Collapse of the charge disproportionation and covalency-driven insulator-metal transition in Sr ₃ Fe ₂ O ₇ under pressure. <i>Physical Review B</i> , 1999, 60, 4609-4617.	1.1	27
286	High-pressure synchrotron-diffraction study of the superconducting spin-ladder compounds (Sr,M) ₁₄ Cu ₂₄ O ₄₁ (M=Ca,Ba, Nd). <i>Physical Review B</i> , 1999, 59, 12048-12053.	1.1	12
287	APPLICATIONS OF IMPULSIVE STIMULATED SCATTERING IN THE EARTH AND PLANETARY SCIENCES. <i>Annual Review of Physical Chemistry</i> , 1999, 50, 279-313.	4.8	46
288	Infrared study of iodanyl under very high pressure. <i>Solid State Communications</i> , 1999, 110, 627-632.	0.9	19

#	ARTICLE	IF	CITATIONS
289	Equation of state of lithium to 21GPa. Solid State Communications, 1999, 112, 123-127.	0.9	72
290	The crystal structure of rubidium-VI near 50GPa. Solid State Communications, 1999, 112, 319-322.	0.9	49
291	Vibrational properties of NaV2O5 under high pressure studied by Raman spectroscopy. Solid State Communications, 1999, 112, 681-685.	0.9	17
292	Effect of pressure on the magnetic phase transition in NaV_2O_5 . Solid State Communications, 1999, 113, 217-220.	0.9	15
293	Effect of pressure on Fermi resonance in orthorhombic high-pressure phase-III and of isotopic species of CO2. Physica B: Condensed Matter, 1999, 265, 54-59.	1.3	4
294	Intrinsic and carrier density effects on the pressure dependence of Tc of high-temperature superconductors. Physica B: Condensed Matter, 1999, 265, 128-135.	1.3	47
295	Title is missing!. International Journal of Thermophysics, 1999, 20, 1189-1198.	1.0	4
296	Vibrational Spectra of Nitrogen in Simple Mixtures at High Pressures. International Journal of Thermophysics, 1999, 20, 867-876.	1.0	11
297	Anisotropy of lattice distortion of $[\text{Co}(\text{NH}_3)_5\text{NO}_2]\text{C}_2\text{O}_4$ at hydrostatic pressures of up to 4.0 GPa. Journal of Structural Chemistry, 1999, 40, 899-904.	0.3	0
298	Influence of order-disorder on the vibron excitations of H2 and D2 in ortho-para mixed crystals. Journal of Low Temperature Physics, 1999, 115, 181-216.	0.6	8
299	Micro-Raman investigations of pressure-induced transformations in MBBA. Journal of Raman Spectroscopy, 1999, 30, 217-224.	1.2	1
300	Raman spectroscopy study of $\text{Zn}_{1-x}\text{Fe}_x\text{Se}$ under high pressure. Journal of Raman Spectroscopy, 1999, 30, 951-955.	1.2	2
301	Crystal Structure of the High-Pressure Phase Silicon VI. Physical Review Letters, 1999, 82, 1197-1200.	2.9	180
302	Structural change of iodanyl under high pressure. Synthetic Metals, 1999, 103, 1901-1902.	2.1	13
303	Effect of pressure on the absolute Raman scattering cross section of SiO2 and GeO2 glasses. Journal of Non-Crystalline Solids, 1999, 248, 159-168.	1.5	83
304	Structural properties of NaV2O5 under high pressure. Physical Review B, 1999, 60, R6945-R6948.	1.1	31
305	Near infrared excited micro-Raman spectra of 4:1 methanol-ethanol mixture and ruby fluorescence at high pressure. Journal of Applied Physics, 1999, 85, 8011-8017.	1.1	33
306	A new pyroxene structure at high pressure; single-crystal X-ray and Raman study of the Pbcn-P2 ₁ phase transition in protopyroxene. American Mineralogist, 1999, 84, 245-256.	0.9	36

#	ARTICLE	IF	CITATIONS
307	Comparative high-pressure crystal chemistry of karrrooite, MgTi_2O_5 , with different ordering states. <i>American Mineralogist</i> , 1999, 84, 130-137.	0.9	20
308	The high-pressure, single-crystal elasticity of pyrope, grossular, and andradite. <i>American Mineralogist</i> , 1999, 84, 374-383.	0.9	87
310	Pressure buffering in a diamond anvil cell. <i>Mineralogical Magazine</i> , 2000, 64, 241-245.	0.6	15
311	Comparative high-pressure crystal chemistry of wadsleyite, $\text{Fe}^{2+}_{1-x}\text{Fe}^{3+}_x\text{Si}_2\text{O}_4$, with $x=0$ and 0.25. <i>American Mineralogist</i> , 2000, 85, 770-777.	0.9	55
312	High-pressure crystal chemistry of Fe^{3+} -wadsleyite, $\text{Fe}^{2+}_{2.33}\text{Si}_{0.67}\text{O}_4$. <i>American Mineralogist</i> , 2000, 85, 778-783.	0.9	14
313	Pressure-Induced Structural Phase Transitions in $\text{Ln}_2\text{NdxCuO}_4$ for $\text{Ln}=\text{La}$ ($0.6 \leq x \leq 2$) and $\text{Ln}=\text{Pr}$ ($x=0$). <i>Journal of Solid State Chemistry</i> , 2000, 151, 231-240.	1.4	10
314	Reversible Antifluorite to Anticotunnite Phase Transition in Li_2S at High Pressures. <i>Journal of Solid State Chemistry</i> , 2000, 154, 603-611.	1.4	80
315	Effect of Pressure on Direct Optical Transitions of InSe . <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 777-787.	0.7	30
316	Compressibility of CO intercalated C_{60} crystals. <i>Chemical Physics Letters</i> , 2000, 319, 283-286.	1.2	3
317	High-pressure studies of the cubic to rhombohedral transformation in NbO_2F . <i>Journal of Applied Crystallography</i> , 2000, 33, 1175-1176.	1.9	8
318	A CCD area detector for X-ray diffraction under high pressure for rotating anode source. <i>Bulletin of Materials Science</i> , 2000, 23, 151-154.	0.8	3
319	Pressure-dependent anharmonic coefficient of OH in portlandite by NIR-IR spectroscopy with DAC. <i>Journal of Mineralogical and Petrological Sciences</i> , 2000, 95, 65-70.	0.4	12
320	Elasticity of MgO and a primary pressure scale to 55 GPa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 13494-13499.	3.3	410
321	Equation of state of magnetite and its high-pressure modification: Thermodynamics of the Fe-O system at high pressure. <i>American Mineralogist</i> , 2000, 85, 514-523.	0.9	208
322	Single-crystal X-ray diffraction study of FeGeO_3 high- P clinopyroxene (C2/c) up to 8.2 GPa. <i>American Mineralogist</i> , 2000, 85, 1485-1491.	0.9	12
323	The MD simulation of the equation of state of MgO: Application as a pressure calibration standard at high temperature and high pressure. <i>American Mineralogist</i> , 2000, 85, 312-316.	0.9	124
324	Electronic Structure of High-Pressure Alumina Polymorphs. <i>Chinese Physics Letters</i> , 2000, 17, 441-443.	1.3	2
325	Infrared studies of the organic superconductor κ -(BEDT-TTF) $_2\text{Cu}(\text{SCN})_2$ under pressure. <i>Journal of Physics Condensed Matter</i> , 2000, 12, L247-L256.	0.7	16

#	ARTICLE	IF	CITATIONS
326	Shock and Static Compression of Nitrobenzene. Japanese Journal of Applied Physics, 2000, 39, 4875-4880.	0.8	7
327	High-pressure infrared spectroscopy of solid oxygen. Physical Review B, 2000, 61, 8801-8805.	1.1	22
328	Structural phase transitions in CaSi ₂ under high pressure. Physical Review B, 2000, 62, 11392-11397.	1.1	62
329	Raman study of phase transition and hydrogen bond symmetrization in solid DCl at high pressure. Physical Review B, 2000, 61, 119-124.	1.1	25
330	Structural study of hexaiodobenzene up to 9.7 GPa. Physical Review B, 2000, 62, 8759-8765.	1.1	9
331	Pressure-induced crystallization of vitreous ZnCl ₂ . Physical Review B, 2000, 61, 5934-5938.	1.1	32
332	Coupled magnon-phonon excitations in Sr ₂ CuCl ₂ O ₂ at high pressure. Physical Review B, 2000, 62, 3895-3899.	1.1	16
333	High-Pressure Single-Crystal Techniques. Reviews in Mineralogy and Geochemistry, 2000, 41, 445-519.	2.2	174
334	High-pressure phase transformation of corundum (Al ₂ O ₃) observed under shock compression. Geophysical Research Letters, 2000, 27, 2021-2024.	1.5	46
335	High pressure melting and equation of state of aluminium. Journal of Alloys and Compounds, 2000, 305, 209-215.	2.8	104
336	Towards a metallic YH ₃ phase at high pressure. Journal of Alloys and Compounds, 2000, 308, 44-48.	2.8	40
337	Raman Spectroscopy of Iron to 152 GPa: Implications for Earth's Inner Core. Science, 2000, 288, 1626-1629.	6.0	130
338	Effects of pressure on the two polymorphs of [Co(NH ₃) ₅ NO ₂] ₂ : The anisotropy of lattice distortion and a phase transition. High Pressure Research, 2000, 17, 79-99.	0.4	22
339	High-pressure phase transformation of the silicon clathrate Si ₁₃₆ . Journal of Physics Condensed Matter, 2000, 12, 4013-4020.	0.7	49
340	High-Pressure and High-Temperature Powder Diffraction. Reviews in Mineralogy and Geochemistry, 2000, 41, 521-557.	2.2	25
341	High-pressure polymorphs of anatase TiO ₂ . Physical Review B, 2000, 61, 14414-14419.	1.1	230
342	Melting of the Rare Earth Metals and f-Electron Delocalization. Physical Review Letters, 2000, 85, 3444-3447.	2.9	64
343	Transition to a crystalline high-pressure phase in GeO ₂ at room temperature. Physical Review B, 2000, 61, 8701-8706.	1.1	46

#	ARTICLE	IF	CITATIONS
344	Pressure-induced phase transitions in gypsum. High Pressure Research, 2000, 17, 57-75.	0.4	20
345	Molecular Dissociation in Deuterium Sulfide under High Pressure: An Infrared and Raman Study. Journal of Physical Chemistry A, 2000, 104, 8838-8842.	1.1	16
346	Isothermal compressibility of hydrous ringwoodite and its relation to the mantle discontinuities. Geophysical Research Letters, 2000, 27, 413-416.	1.5	59
347	High-pressure structure and electronic transport in hole-doped La _{3/4} Ca _{1/4} MnO ₃ perovskites. Physical Review B, 2001, 65, .	1.1	64
348	Crystalline Post-Quartz Phase in Silica at High Pressure. Physical Review Letters, 2001, 87, 155503.	2.9	110
349	High-pressure properties of TiP ₂ O ₇ , ZrP ₂ O ₇ and ZrV ₂ O ₇ . Journal of Applied Crystallography, 2001, 34, 7-12.	1.9	48
350	Complex Crystal Structure of Cesium-III. Physical Review Letters, 2001, 87, 255502.	2.9	89
351	Experimental and theoretical investigation of Mo ₂ C at high pressure. Journal of Physics Condensed Matter, 2001, 13, 2447-2454.	0.7	44
352	Evaluation of the hydrostaticity of a helium-pressure medium with powder x-ray diffraction techniques. Journal of Applied Physics, 2001, 89, 662-668.	1.1	194
353	Superconductivity in Boron. Science, 2001, 293, 272-274.	6.0	300
354	Effect of pressure on optical phonon modes and transverse effective charges in GaN and AlN. Physical Review B, 2001, 64, .	1.1	211
355	Synthesis of superhard cubic BC ₂ N. Applied Physics Letters, 2001, 78, 1385-1387.	1.5	495
356	Effect of pressure on crystal-field transitions of Nd-doped YLiF ₄ . Physical Review B, 2001, 64, .	1.1	29
357	Ruby-spheres as pressure gauge for optically transparent high pressure cells. High Pressure Research, 2001, 21, 305-314.	0.4	189
358	New diamond anvil cell for single-crystal analysis. Review of Scientific Instruments, 2001, 72, 1458.	0.6	39
359	Lattice modes of solid nitrogen to 104 GPa. Low Temperature Physics, 2001, 27, 870-872.	0.2	0
360	Vanadium oxides V ₂ O ₅ and NaV ₂ O ₅ under high pressures: Structural, vibrational, and electronic properties. Journal of Alloys and Compounds, 2001, 317-318, 103-108.	2.8	50
361	Equation of state of lower mantle (Al,Fe)-MgSiO ₃ perovskite. Earth and Planetary Science Letters, 2001, 193, 501-508.	1.8	109

#	ARTICLE	IF	CITATIONS
362	Melting of the alkaline-earth metals to 80 GPa. <i>Physical Review B</i> , 2001, 65, .	1.1	77
363	A CCD based detector for quick detection of pressure induced phase transitions. <i>High Pressure Research</i> , 2001, 21, 51-64.	0.4	1
364	Evaluation of shear moduli and other properties of silicates with the spinel structure from IR spectroscopy. <i>American Mineralogist</i> , 2001, 86, 622-639.	0.9	52
365	Elastic properties of andradite and grossular, by synchrotron X-ray diffraction at high pressure conditions. <i>European Journal of Mineralogy</i> , 2001, 13, 929-937.	0.4	23
366	High-pressure structures of $\hat{\Gamma}$ - and $\hat{\Gamma}$ -ZrMo ₂ O ₈ . <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 20-26.	1.8	31
367	Reversible phase transitions in Na ₂ S under pressure: a comparison with the cation array in Na ₂ SO ₄ . <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 151-156.	1.8	85
368	Bulk modulus and non-uniform compression of Nb ₃ Te ₄ and In _x Nb ₃ Te ₄ (x < 1) channel compounds. <i>Acta Crystallographica Section B: Structural Science</i> , 2001, 57, 665-672.	1.8	5
369	Formation of diamond by decarbonation of MnCO ₃ . <i>Solid State Communications</i> , 2001, 118, 195-198.	0.9	15
370	High-pressure behavior of $\hat{\Gamma}$ -Ni(OH) ₂ A Raman scattering study. <i>Physica B: Condensed Matter</i> , 2001, 307, 111-116.	1.3	48
371	Pressure-Induced Phase Transitions in Cadmium Thiogallate CdGa ₂ Se ₄ . <i>Journal of Solid State Chemistry</i> , 2001, 160, 205-211.	1.4	43
373	TlF and PbO under High Pressure: Unexpected Persistence of the Stereochemically Active Electron Pair. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4624-4629.	7.2	29
374	Magnetoexcitons in Zn _{0.98} Mn _{0.02} Te under High Hydrostatic Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 223, 171-175.	0.7	2
375	Novel Graphitic Spheres: Raman Spectroscopy at High Pressures. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 223, 293-298.	0.7	12
376	Carbon Dioxide at High Pressure and Temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2001, 223, 427-433.	0.7	11
377	The high-pressure behaviour of the "moganite" polymorph of SiO ₂ . <i>European Journal of Mineralogy</i> , 2001, 13, 351-359.	0.4	9
378	Pressure-Induced Quenching of the Jahn-Teller Distortion and Insulator-to-Metal Transition in LaMnO ₃ . <i>Physical Review Letters</i> , 2001, 87, 125501.	2.9	256
379	Progress in Cryocrystals at Megabar Pressures. <i>Journal of Low Temperature Physics</i> , 2001, 122, 331-344.	0.6	22
380	Semiconducting non-molecular nitrogen up to 240 GPa and its low-pressure stability. <i>Nature</i> , 2001, 411, 170-174.	13.7	310

#	ARTICLE	IF	CITATIONS
381	The post-spinel transformation in Mg ₂ SiO ₄ and its relation to the 660-km seismic discontinuity. <i>Nature</i> , 2001, 411, 571-574.	13.7	151
382	High-pressure polymorphs of olivine and the 660-km seismic discontinuity. <i>Nature</i> , 2001, 411, 574-577.	13.7	81
383	High Pressure Probes of Electronic Structure and Luminescence Properties of Transition Metal and Lanthanide Systems. <i>Topics in Current Chemistry</i> , 2001, , 1-94.	4.0	68
384	MgB ₂ under pressure: phonon calculations, Raman spectroscopy, and optical reflectance. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 9945-9962.	0.7	68
385	A Raman study of the organic superconductor \hat{I}^{\pm} -(BEDT-TTF) ₂ Cu(SCN) ₂ at high pressure. <i>Journal of Physics Condensed Matter</i> , 2001, 13, L291-L298.	0.7	4
386	Inhomogeneous broadening of Cr ³⁺ luminescence in doped LiTaO ₃ . <i>Physical Review B</i> , 2001, 63, .	1.1	47
387	Phase behavior of the N ₂ -Ar system at high pressures: A Raman spectroscopy study. <i>Physical Review B</i> , 2001, 64, .	1.1	8
388	Absence of a structural transition up to 40 GPa in MgB ₂ and the relevance of magnesium nonstoichiometry. <i>Physical Review B</i> , 2001, 64, .	1.1	49
389	Effect of pressure on the Raman anomaly of zinc-blende CuBr and Raman spectra of high-pressure phases. <i>Physical Review B</i> , 2001, 64, .	1.1	19
390	Compressibility of nanostructured alumina phases determined from synchrotron x-ray diffraction studies at high pressure. <i>Journal of Applied Physics</i> , 2001, 90, 3280-3285.	1.1	31
391	Raman study of pressure-induced structural change in C ₆₀ up to 47 GPa. <i>Physical Review B</i> , 2001, 64, .	1.1	11
392	Calibration of the R ruby fluorescence lines in the pressure range [0-1 GPa] and the temperature range [250-300 K]. <i>High Pressure Research</i> , 2001, 21, 139-157.	0.4	50
393	X-ray diffraction and theoretical studies of the high-pressure structures and phase transitions in magnesium fluoride. <i>Physical Review B</i> , 2001, 64, .	1.1	109
394	Raman study of crystal-field excitations in Nd ₂ CuO ₄ under pressure. <i>Physical Review B</i> , 2001, 64, .	1.1	3
395	Nuclear Inelastic X-Ray Scattering of FeO to 48 GPa. <i>Physical Review Letters</i> , 2001, 87, 255501.	2.9	71
396	Vibrational line broadening in the mixed solid N ₂ -Kr: A high-pressure Raman study of the phase diagram. <i>Physical Review B</i> , 2001, 64, .	1.1	6
397	Equation of State and Pressure Induced Amorphization of \hat{I}^{\pm} -Boron from X-Ray Measurements up to 100 GPa. <i>Physical Review Letters</i> , 2002, 89, 245501.	2.9	80
398	The equation of state of PbTiO ₃ up to 37 GPa: a synchrotron x-ray powder diffraction study. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10601-10604.	0.7	32

#	ARTICLE	IF	CITATIONS
399	Crystal structure and lattice dynamics of AlB ₂ under pressure and implications for MgB ₂ . Physical Review B, 2002, 66, .	1.1	71
400	Pressure-volume relationship of Ta. Journal of Applied Physics, 2002, 91, 4143-4148.	1.1	33
401	Transition to a cubic phase with symmetry-breaking disorder in PbZr _{0.52} Ti _{0.48} O ₃ at high pressure. Physical Review B, 2002, 65, .	1.1	59
402	Phase behavior of krypton and xenon to 50 GPa. Physical Review B, 2002, 65, .	1.1	87
403	Scheelite to fergusonite phase transition in YLiF ₄ at high pressures. Physical Review B, 2002, 65, .	1.1	65
404	Iron-Silicon Alloy in Earth's Core?. Science, 2002, 295, 313-315.	6.0	140
405	Temperature- and pressure-induced lattice distortion in CdCr ₂ ÀxGaxSe ₄ (x= 0, 0.06, and 0.12). Journal of Physics Condensed Matter, 2002, 14, 12423-12431.	0.7	8
406	High-pressure behavior of bikitaite: An integrated theoretical and experimental approach. American Mineralogist, 2002, 87, 1415-1425.	0.9	56
407	Raman spectroscopy of Fe ₂ O ₃ to 62 GPa. American Mineralogist, 2002, 87, 318-326.	0.9	210
408	Compressibility to 7 GPa at 298 K of the protonated octahedral framework mineral burtite, CaSn(OH) ₆ . Mineralogical Magazine, 2002, 66, 431-440.	0.6	8
409	High-pressure Raman investigations of phase transformations in pentaerythritol (C(CH ₂ OH) ₄). Journal of Physics Condensed Matter, 2002, 14, 10367-10375.	0.7	13
410	High-pressure IR-spectra and the thermodynamic properties of chloritoid. American Mineralogist, 2002, 87, 609-622.	0.9	15
411	Raman-active modes of porous gallium phosphide at high pressures and low temperatures. Journal of Physics Condensed Matter, 2002, 14, 13879-13887.	0.7	6
412	The moissanite anvil cell: a new tool for high-pressure research. Journal of Physics Condensed Matter, 2002, 14, 11543-11548.	0.7	45
413	Hydroxyl in MgSiO ₃ akimotoite: A polarized and high-pressure IR study. American Mineralogist, 2002, 87, 603-608.	0.9	13
414	Pressure-Induced Structural Phase Transition in the Spin-Ladder Compounds (Sr,M) ₁₄ Cu ₂₄ O ₄₁ , with M=Ca, Ba, Nd. , 2002, , 465-472.		0
415	High-pressure Brillouin scattering from vitreous (Y ₂ O ₃) _{0.27} (P ₂ O ₅) _{0.73} . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 755-761.	0.6	1
416	Superconductivity in the chalcogens up to multimegabar pressures. Physical Review B, 2002, 65, .	1.1	64

#	ARTICLE	IF	CITATIONS
417	Structure of Rb-III: Novel Modulated Stacking Structures in Alkali Metals. Physical Review Letters, 2002, 88, 155503.	2.9	84
418	High-pressure structural properties of anthracene up to 10 GPa. Physical Review B, 2002, 66, .	1.1	49
419	Raman spectroscopy of Co(OH) ₂ at high pressures: Implications for amorphization and hydrogen repulsion. Physical Review B, 2002, 66, .	1.1	126
420	Structure and elasticity of single-crystal (Mg,Fe)O and a new method of generating shear waves for gigahertz ultrasonic interferometry. Journal of Geophysical Research, 2002, 107, ECV 4-1.	3.3	149
421	Evidence for xenon silicates at high pressure and temperature. Geophysical Research Letters, 2002, 29, 30-1-30-4.	1.5	24
422	New windows on earth and planetary interiors. Mineralogical Magazine, 2002, 66, 791-811.	0.6	29
423	Sodium under pressure: ϵ to fcc structural transition and pressure-volume relation to 100 GPa. Physical Review B, 2002, 65, .	1.1	114
424	Optimization of Sm ³⁺ fluorescence in Sm-doped yttrium aluminum garnet: Application to pressure calibration in diamond-anvil cell at high temperature. Journal of Applied Physics, 2002, 92, 4349-4353.	1.1	27
425	Vibrational properties of ZnTe at high pressures. Journal of Physics Condensed Matter, 2002, 14, 739-757.	0.7	39
426	Pressure-induced phase transition in C ₆₀ I ₄ . Journal of Physics Condensed Matter, 2002, 14, 10415-10418.	0.7	2
427	High-pressure transformations in xenon hydrates. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 25-28.	3.3	66
428	Equation of state of gold and its application to the phase boundaries near 660 km depth in Earth's mantle. Earth and Planetary Science Letters, 2002, 203, 729-739.	1.8	182
429	Structure redetermination and high pressure behaviour of AgCuO ₂ . Journal of Alloys and Compounds, 2002, 338, 99-103.	2.8	28
430	In situ x-ray diffraction and Raman spectroscopy of pressure-induced phase transformation in spinel Zn ₂ TiO ₄ . Physical Review B, 2002, 66, .	1.1	50
431	Structural and electrical properties of beryllium metal to 66 GPa studied using designer diamond anvils. Physical Review B, 2002, 65, .	1.1	27
432	High-pressure deformation mechanism in scolecite: A combined computational-experimental study. American Mineralogist, 2002, 87, 1194-1206.	0.9	39
433	High pressure Raman spectroscopy of ferrite MgFe ₂ O ₄ . Materials Research Bulletin, 2002, 37, 1589-1602.	2.7	164
434	Metastable NaYF ₄ fluorite at high pressures and high temperatures. Solid State Sciences, 2002, 4, 895-899.	1.5	46

#	ARTICLE	IF	CITATIONS
435	Antifluorite to Ni ₂ In-type phase transition in K ₂ S at high pressures. <i>Solid State Sciences</i> , 2002, 4, 1077-1081.	1.5	46
436	Hexagonal Na _{1.5} Y _{1.5} F ₆ at High Pressures. <i>Journal of Solid State Chemistry</i> , 2002, 165, 159-164.	1.4	84
437	High-Pressure Raman Spectroscopic Study of Spinel (ZnCr ₂ O ₄). <i>Journal of Solid State Chemistry</i> , 2002, 165, 165-170.	1.4	130
438	Pressure and Temperature Dependence of the Ferroelectric-Paraelectric Phase Transition in PbTiO ₃ . <i>Journal of Solid State Chemistry</i> , 2002, 167, 446-452.	1.4	38
439	Pressure-Induced Structural Deformations in SeO ₂ . <i>Journal of Solid State Chemistry</i> , 2002, 168, 184-191.	1.4	19
440	High-pressure phase transition and behavior of protons in brucite Mg(OH) ₂ : a high-pressure-temperature study using IR synchrotron radiation. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 396-402.	0.3	37
441	Irreversible amorphization of tetragonal two-dimensional polymeric C ₆₀ under high pressure. <i>Solid State Communications</i> , 2002, 121, 241-244.	0.9	24
442	Pressure induced phase transformations in nanocrystalline maghemite (γ-Fe ₂ O ₃). <i>Solid State Communications</i> , 2002, 123, 195-200.	0.9	36
443	High pressure Raman spectroscopic study of spinel MgCr ₂ O ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 2057-2061.	1.9	63
444	Optical studies of solid hydrogen to 320 GPa and evidence for black hydrogen. <i>Nature</i> , 2002, 416, 613-617.	13.7	379
445	High-pressure Raman spectroscopy study of wurtzite ZnO. <i>Physical Review B</i> , 2002, 65, .	1.1	468
446	The high-pressure phase sequence in nanocrystalline zirconia. <i>European Physical Journal B</i> , 2003, 35, 301-309.	0.6	17
447	Collapsing Cristobalitelike Structures in Silica Analogues at High Pressure. <i>Physical Review Letters</i> , 2003, 91, 015503.	2.9	58
448	Effect of pressure on electrical resistance of WSe ₂ single crystal. <i>Pramana - Journal of Physics</i> , 2003, 61, 183-186.	0.9	8
449	P-T phase diagram of PbZr _{0.52} Ti _{0.48} O ₃ (PZT). <i>Solid State Sciences</i> , 2003, 5, 451-457.	1.5	29
450	Raman scattering studies at high pressure and low temperature: technique and application to the piezoelectric material PbZr _{0.52} Ti _{0.48} O ₃ . <i>Journal of Raman Spectroscopy</i> , 2003, 34, 519-523.	1.2	16
451	Raman spectroscopy of metals, high-temperature superconductors and related materials under high pressure. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 532-548.	1.2	85
452	Megabar high-pressure cells for Raman measurements. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 515-518.	1.2	67

#	ARTICLE	IF	CITATIONS
453	High pressure Raman spectroscopy of spinel-type ferrite ZnFe ₂ O ₄ . Journal of Physics and Chemistry of Solids, 2003, 64, 2517-2523.	1.9	230
454	Compressibility and vibrational property of Gd _{0.7} B ₁₂ Si ₃ O ₃ : a compound with two-dimensional boron icosahedral framework. Chemical Physics Letters, 2003, 379, 47-52.	1.2	5
455	New phases of N ₂ O ₄ at high pressures and high temperatures. Chemical Physics Letters, 2003, 382, 686-692.	1.2	17
456	Bulk modulus of solid deuterium at 15 K. Chemical Physics Letters, 2003, 372, 373-376.	1.2	4
457	An in situ Raman spectroscopic study of pressure induced dissociation of spinel NiCr ₂ O ₄ . Journal of Physics and Chemistry of Solids, 2003, 64, 425-431.	1.9	80
458	Raman scattering study on pressure-induced phase transformation of marokite (CaMn ₂ O ₄). Journal of Solid State Chemistry, 2003, 170, 382-389.	1.4	17
459	Pressure dependence of T _C of the layered superconductor Y ₂ C ₂ I ₂ : lattice versus electronic effects. Journal of Solid State Chemistry, 2003, 171, 367-370.	1.4	6
460	High-pressure structure of Li ₂ CO ₃ . Journal of Solid State Chemistry, 2003, 173, 13-19.	1.4	28
461	Pressure-induced metastable phase transition in orthoenstatite (MgSiO ₃) at room temperature: a Raman spectroscopic study. Journal of Solid State Chemistry, 2003, 174, 403-411.	1.4	32
462	Influence of the molecular structures on the high-pressure and low-temperature phase transitions of plastic crystals. Acta Crystallographica Section B: Structural Science, 2003, 59, 60-71.	1.8	5
463	High-pressure photoluminescence study of the electronic structure of InP/GaP quantum dots. Physica Status Solidi (B): Basic Research, 2003, 235, 412-416.	0.7	2
464	Pressure dependence of optical phonons in ZnCdSe alloys. Physica Status Solidi (B): Basic Research, 2003, 235, 432-436.	0.7	8
465	Pressure dependence of photoluminescence spectra of self-assembled InAs/GaAs quantum dots. Physica Status Solidi (B): Basic Research, 2003, 235, 496-500.	0.7	18
466	High-pressure and high-temperature study of phase transitions in solid germanium. Physica Status Solidi (B): Basic Research, 2003, 240, 19-28.	0.7	36
468	Properties of diamond under hydrostatic pressures up to 140 GPa. Nature Materials, 2003, 2, 151-154.	13.3	425
469	Local structure of condensed zinc oxide. Physical Review B, 2003, 68, .	1.1	249
470	Large Structural Modulations in Incommensurate Te-III and Se-IV. Physical Review Letters, 2003, 91, 215502.	2.9	91
471	Pseudoamorphization of Cs ₂ HgBr ₄ . Physical Review B, 2003, 68, .	1.1	23

#	ARTICLE	IF	CITATIONS
472	Aluminum in magnesium silicate perovskite: Formation, structure, and energetics of magnesium-rich defect solid solutions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	50
473	Superconducting Phase Diagram of Li Metal in Nearly Hydrostatic Pressures up to 67 ÅGPa. <i>Physical Review Letters</i> , 2003, 91, 167001.	2.9	176
474	Electronic structure of self-assembled InP/GaP quantum dots from high-pressure photoluminescence. <i>Physical Review B</i> , 2003, 67, .	1.1	30
475	High-pressure Raman and X-ray studies of barite, BaSO ₄ . <i>High Pressure Research</i> , 2003, 23, 439-450.	0.4	25
476	Refinement of the ruby luminescence pressure scale. <i>Journal of Applied Physics</i> , 2003, 93, 1813-1818.	1.1	105
477	High-pressure x-ray diffraction and Raman spectroscopic studies of the tetragonal spinel CoFe ₂ O ₄ . <i>Physical Review B</i> , 2003, 68, .	1.1	97
478	Melting of tantalum at high pressure determined by angle dispersive x-ray diffraction in a double-sided laser-heated diamond-anvil cell. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7635-7649.	0.7	111
479	Scheelite CaWO ₄ at high pressures. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7261-7270.	0.7	39
480	Raman Spectroscopic Study of Pressure Effects on the Spin-Crossover Coordination Polymers Fe(Pyrazine)[M(CN) ₄]·2H ₂ O (M = Ni, Pd, Pt). First Observation of a Piezo-Hysteresis Loop at Room Temperature. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3149-3155.	1.2	129
482	Equation of state and phonon frequency calculations of diamond at high pressures. <i>Physical Review B</i> , 2003, 68, .	1.1	82
483	Electrical resistance measurements under pressure on NbTe ₂ single crystal. <i>High Pressure Research</i> , 2003, 23, 379-387.	0.4	6
485	Amorphous boron gasket in diamond anvil cell research. <i>Review of Scientific Instruments</i> , 2003, 74, 4732-4736.	0.6	52
486	Effects of pressure on the structure of bikitaite. <i>European Journal of Mineralogy</i> , 2003, 15, 247-255.	0.4	33
487	Phase transition between the CaCl ₂ -type and $\pm\alpha$ -PbO ₂ -type structures of germanium dioxide. <i>Physical Review B</i> , 2003, 68, .	1.1	30
488	High-pressure structure and equation of state study of nitrosonium nitrate from synchrotron x-ray diffraction. <i>Journal of Chemical Physics</i> , 2003, 118, 8350-8356.	1.2	20
489	UPd ₃ under high pressure: ϵ -Lattice properties. <i>Physical Review B</i> , 2003, 67, .	1.1	13
490	Measurement of refractive index and equation of state in dense He, H ₂ , H ₂ O, and Ne under high pressure in a diamond anvil cell. <i>Physical Review B</i> , 2003, 67, .	1.1	102
491	Infrared observation of the phase transitions of ice at low temperatures and pressures up to 50 GPa and the metastability of low-temperature ice VII. <i>Physical Review B</i> , 2003, 68, .	1.1	22

#	ARTICLE	IF	CITATIONS
492	Infrared investigation on ice VIII and the phase diagram of dense ices. <i>Physical Review B</i> , 2003, 68, .	1.1	55
493	Equation of state and intermolecular interactions in fluid hydrogen from Brillouin scattering at high pressures and temperatures. <i>Journal of Chemical Physics</i> , 2003, 118, 10683-10695.	1.2	30
494	Vibrational modeling of the thermodynamic properties of magnetite (Fe ₃ O ₄) at high pressure from Raman spectroscopic study. <i>Journal of Chemical Physics</i> , 2003, 119, 6100-6110.	1.2	38
495	High-pressure stability, transformations, and vibrational dynamics of nitrosonium nitrate from synchrotron infrared and Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2003, 119, 2232-2240.	1.2	21
496	High-pressure synthesis and study of low-compressibility molybdenum nitride (MoN) Tj ETQq0 0 0 rgBT /Overlock 10,Tf 50 582 Td (and M	1.1	65
497	High pressure and high temperature phase transformations in LiNbO ₃ . <i>Journal of Applied Physics</i> , 2003, 93, 3852-3858.	1.1	17
498	Electronic thermal pressure and equation of state of gold at high temperature and high pressure. <i>Journal of Applied Physics</i> , 2003, 93, 9679-9682.	1.1	13
499	Pressure-induced changes in protactinium metal: Importance to actinide-metal bonding concepts. <i>Physical Review B</i> , 2003, 67, .	1.1	51
500	High-pressure phase transitions in tetrakis(trimethylsilyl)silane Si[Si(CH ₃) ₃] ₄ . <i>High Pressure Research</i> , 2003, 23, 425-437.	0.4	0
501	OH ²⁺ in synthetic and natural coesite. <i>American Mineralogist</i> , 2003, 88, 1436-1445.	0.9	45
502	Synthetic MgAl ₂ O ₄ (spinel) at high-pressure conditions (0.0001–30 GPa): A synchrotron X-ray powder diffraction study. <i>American Mineralogist</i> , 2003, 88, 93-98.	0.9	53
503	Chain-length-dependent intermolecular packing in polyphenylenes: a high pressure study. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 3375-3389.	0.7	41
504	Equation of state of stishovite to lower mantle pressures. <i>American Mineralogist</i> , 2003, 88, 301-307.	0.9	123
505	Structural deformation mechanisms of zeolites under pressure. <i>American Mineralogist</i> , 2003, 88, 1416-1422.	0.9	60
506	Bulk moduli and high-pressure crystal structures of minium, Pb ₃ O ₄ , determined by X-ray powder diffraction. <i>American Mineralogist</i> , 2003, 88, 996-1002.	0.9	34
507	Thermal equation of state of omphacite. <i>American Mineralogist</i> , 2003, 88, 80-86.	0.9	34
508	Equation of state and compressibility of phlogopite by in-situ high-pressure X-ray powder diffraction. <i>European Journal of Mineralogy</i> , 2003, 15, 455-463.	0.4	24
509	Pressure-induced phase transition in malayaite, CaSnOSiO ₄ . <i>American Mineralogist</i> , 2003, 88, 293-300.	0.9	15

#	ARTICLE	IF	CITATIONS
510	Effect of temperature and pressure on the crystal structure of topaz, $\text{Al}_2\text{SiO}_4(\text{OH},\text{F})_2$. Journal of Mineralogical and Petrological Sciences, 2003, 98, 167-180.	0.4	20
511	High-pressure single crystal X-ray diffraction and FT-IR observation of natural chondrodite and synthetic OH-chondrodite. Journal of Mineralogical and Petrological Sciences, 2004, 99, 118-129.	0.4	14
512	New condensed matter probes for diamond anvil cell technology. Journal of Physics Condensed Matter, 2004, 16, S1071-S1086.	0.7	6
513	Decomposition of LiGdF_4 scheelite at high pressures. Journal of Physics Condensed Matter, 2004, 16, 7779-7786.	0.7	22
514	Structural evolution of the CuGaO_2 delafossite under high pressure. Physical Review B, 2004, 69, .	1.1	64
515	Polymerization of nitrogen in sodium azide. Journal of Chemical Physics, 2004, 120, 10618-10623.	1.2	146
516	Pressure-Induced Magnetization in FeO: Evidence from Elasticity and Mössbauer Spectroscopy. Physical Review Letters, 2004, 93, 215502.	2.9	55
517	Structural transformation of molecular nitrogen to a single-bonded atomic state at high pressures. Journal of Chemical Physics, 2004, 121, 11296.	1.2	180
518	Raman spectroscopy and x-ray diffraction of phase transitions in Cr_2O_3 to 61 GPa. Physical Review B, 2004, 69, .	1.1	111
519	Confirmation of the incommensurate nature of Se^{IV} at pressures below 70 GPa. Physical Review B, 2004, 70, .	1.1	45
520	Effect of pressure on crystal-field transitions of Nd-doped YVO_4 . Physical Review B, 2004, 69, .	1.1	28
521	High-pressure phase diagram of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ single crystals. Physical Review B, 2004, 70, .	1.1	34
522	O_2 - N_2 mixtures under pressure: A structural study of the binary phase diagram at 295 K. Physical Review B, 2004, 70, .	1.1	17
523	Compression of polyhedral graphite up to 43 GPa and x-ray diffraction study on elasticity and stability of the graphite phase. Applied Physics Letters, 2004, 84, 5112-5114.	1.5	26
524	High pressure ultrasonic and x-ray studies on monolithic SiC composite. Journal of Applied Physics, 2004, 95, 1806-1810.	1.1	16
525	Neutron and X-Ray Diffraction Studies of Piezoelectric Materials under Non-Ambient Conditions. Materials Science Forum, 2004, 443-444, 277-282.	0.3	0
527	Polyhedral control of the rhombohedral to cubic phase transition in LaAlO_3 perovskite. Journal of Physics Condensed Matter, 2004, 16, 8763-8773.	0.7	50
528	Structure of crystalline and amorphous Ge probed by X-ray absorption and diffraction techniques. High Pressure Research, 2004, 24, 93-99.	0.4	13

#	ARTICLE	IF	CITATIONS
529	Hydroxyl in omphacites and omphacitic clinopyroxenes of upper mantle to lower crustal origin beneath the Siberian platform. <i>American Mineralogist</i> , 2004, 89, 921-931.	0.9	72
530	Far-infrared study on pressure-induced metal-insulator transition of $\text{Cu}_{1-x}\text{Se}_x$ under high pressure. , 0, , .		0
531	Polymorphic forms of Rb_2Te : in-situ high-pressure DAC X-ray diffraction investigations and structure modelling with CASTEP. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004, 219, 359-369.	0.4	9
532	Equations of state of ZrSiO_4 phases in the upper mantle. <i>American Mineralogist</i> , 2004, 89, 185-188.	0.9	50
533	Shear waves in the diamond-anvil cell reveal pressure-induced instability in $(\text{Mg,Fe})\text{O}$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 5867-5871.	3.3	51
534	LiSrAlF_6 with the LiBaCrF_6 -type structure. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 3005-3013.	0.7	7
535	The crystal structures of pressure-induced LiSrAlF_6 -II and LiCaAlF_6 -II. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 1033-1043.	0.7	9
536	High-pressure synchrotron X-ray diffraction study of spessartine and uvarovite: A comparison between different equation of state models. <i>American Mineralogist</i> , 2004, 89, 371-376.	0.9	11
537	High-pressure elasticity of a natural magnetite crystal. <i>American Mineralogist</i> , 2004, 89, 1061-1066.	0.9	82
538	In situ determination of the compressibility of synthetic pure zircon (ZrSiO_4) and the onset of the zircon-reidite phase transition. <i>American Mineralogist</i> , 2004, 89, 197-203.	0.9	81
539	Anomalous Dynamical Charge Change Behavior of Nanocrystalline 3C-SiC upon Compression. <i>Journal of the American Ceramic Society</i> , 2004, 87, 2291-2293.	1.9	6
540	Single-bonded cubic form of nitrogen. <i>Nature Materials</i> , 2004, 3, 558-563.	13.3	797
541	Phonon Density of States and Elastic Properties of Fe-based Materials under Compression. <i>Hyperfine Interactions</i> , 2004, 153, 3-15.	0.2	7
542	High pressure and supramolecular systems. <i>Russian Chemical Bulletin</i> , 2004, 53, 1369-1378.	0.4	18
543	Pressure tuning of the morphotropic phase boundary in piezoelectric lead zirconate titanate. <i>Physical Review B</i> , 2004, 70, .	1.1	66
544	Structural properties of the zircon- and scheelite-type phases of YVO_4 at high pressure. <i>Physical Review B</i> , 2004, 70, .	1.1	108
545	High pressure phase transitions in BaWO_4 . <i>Solid State Communications</i> , 2004, 130, 203-208.	0.9	52
546	Equation of state, structural behaviour and phase diagram of synthetic MgFe_2O_4 , as a function of pressure and temperature. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 122-129.	0.3	52

#	ARTICLE	IF	CITATIONS
547	High-pressure behaviour of serpentine minerals: a Raman spectroscopic study. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 269-277.	0.3	176
548	Tilting and distortion of CaSnO ₃ perovskite to 7 GPa determined from single-crystal X-ray diffraction. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 299-305.	0.3	61
549	X-ray diffraction studies of millerite NiS under non-ambient conditions. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 321-327.	0.3	30
550	Comparative compressibility and equation of state of orthorhombic and tetragonal edingtonite. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 288-298.	0.3	29
551	Phonon density of states in iron at high pressures and high temperatures. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 353.	0.3	43
552	Rigid unit modes at high pressure: an explorative study of a fibrous zeolite-like framework with EDI topology. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 465-474.	0.3	25
553	Recombination dynamics in self-assembled InP/GaP quantum dots under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3263-3268.	0.7	1
554	Structural properties, infrared reflectivity, and Raman modes of SnO at high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 3168-3178.	0.7	82
555	High-pressure neutron powder diffraction study of the θ phase of ReO ₃ . <i>Journal of Applied Crystallography</i> , 2004, 37, 857-861.	1.9	22
556	On the phase-transition in anthracene induced by high pressure. <i>Solid State Communications</i> , 2004, 129, 103-106.	0.9	27
557	Hydrogen ordering in rhenium hydride: anti-CdI ₂ type structure of ReH _{0.36} . <i>Solid State Communications</i> , 2004, 130, 59-62.	0.9	9
558	Pressure induced hexagonal to cubic phase transformation in erbium trihydride. <i>Solid State Communications</i> , 2004, 130, 219-221.	0.9	49
559	High-pressure synthesis of a new copper hydride from elements. <i>Solid State Communications</i> , 2004, 131, 169-173.	0.9	32
560	High-pressure phase transition of hematite, Fe ₂ O ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 1527-1530.	1.9	79
561	High-pressure single-crystal X-ray diffraction study of YAlO ₃ perovskite. <i>Journal of Solid State Chemistry</i> , 2004, 177, 1276-1284.	1.4	80
562	High-pressure structural behavior of GdAlO ₃ and GdFeO ₃ perovskites. <i>Journal of Solid State Chemistry</i> , 2004, 177, 3768-3775.	1.4	51
563	High-pressure UV spectroscopy on oxygen up to 1.5 GPa. <i>Chemical Physics Letters</i> , 2004, 392, 476-479.	1.2	4
564	Raman spectroscopy on high-pressure fluids of molecular oxygen and nitrogen. <i>Chemical Physics Letters</i> , 2004, 400, 326-330.	1.2	10

#	ARTICLE	IF	CITATIONS
565	Magnetic transition in compressed Fe ₃ C from x-ray emission spectroscopy. Physical Review B, 2004, 70, .	1.1	64
566	Pressure induced phase transition and amorphization of Na ₃ ONO ₂ . Physical Chemistry Chemical Physics, 2004, 6, 881.	1.3	14
567	A comparison of volume compressions of silver and gold up to 150 GPa. Journal of Applied Physics, 2004, 95, 4767-4771.	1.1	39
568	High-pressure phases in highly piezoelectric PbZr _{0.52} Ti _{0.48} O ₃ . Physical Review B, 2004, 69, .	1.1	62
569	High-pressure behaviour of selenium-based spinels and related structures – an experimental and theoretical study. Journal of Physics Condensed Matter, 2004, 16, 53-63.	0.7	20
570	X-ray study of the synthesis of boron oxides at high pressure: Phase diagram and equation of state. Physical Review B, 2004, 70, .	1.1	56
571	Formation and Structure of a Dense Octahedral Glass. Physical Review Letters, 2004, 93, 115502.	2.9	158
572	Pressure-induced melting of charge-order in the self-doped Mott insulator YNiO ₃ . Physical Review B, 2004, 69, .	1.1	30
573	Compression of iron hydride to 80 GPa and hydrogen in the Earth's inner core. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	59
574	Effect of aluminium on the compressibility of silicate perovskite. Geophysical Research Letters, 2004, 31, .	1.5	29
575	A new high-pressure form of KAlSi ₃ O ₈ under lower mantle conditions. Geophysical Research Letters, 2004, 31, .	1.5	38
576	Single-crystal elasticity of grossular- and almandine-rich garnets to 11 GPa by Brillouin scattering. Journal of Geophysical Research, 2004, 109, .	3.3	56
577	Single-crystal elasticity of fayalite to 12 GPa. Journal of Geophysical Research, 2004, 109, .	3.3	59
578	Rhenium, an in situ pressure calibrant for internally heated diamond anvil cells. Review of Scientific Instruments, 2004, 75, 2409-2418.	0.6	40
579	Experimental Evidence for a High-Pressure Isostructural Phase Transition in Osmium. Physical Review Letters, 2004, 93, 095502.	2.9	119
580	High-pressure Raman study of the Sr ₂ CaWO ₆ double perovskite. Journal of Physics Condensed Matter, 2004, 16, 8367-8376.	0.7	24
581	Crystal structure of LaTiO ₃ under pressure. Physical Review B, 2004, 69, .	1.1	22
582	Complex crystal structures of Te-II and Se-III at high pressure. Physical Review B, 2004, 70, .	1.1	60

#	ARTICLE	IF	CITATIONS
583	Coupling static and dynamic compressions: first measurements in dense hydrogen. High Pressure Research, 2004, 24, 25-31.	0.4	96
584	Isotopically pure C13 layer as a stress sensor in a diamond anvil cell. Applied Physics Letters, 2004, 84, 5308-5310.	1.5	10
585	Bulk modulus of osmium: High-pressure powder x-ray diffraction experiments under quasihydrostatic conditions. Physical Review B, 2004, 70, .	1.1	93
586	Lattice dynamics and the high-pressure equation of state of Au. Physical Review B, 2004, 69, .	1.1	62
587	High-pressure luminescence study of Eu ³⁺ in lithium borate glass. Physical Review B, 2004, 69, .	1.1	61
588	Microscopic structure of nanometer-sized silica particles. Physical Review B, 2004, 69, .	1.1	86
589	B1-to-B2 phase transition of transition-metal monoxide CdO under strong compression. Physical Review B, 2004, 70, .	1.1	72
590	Equation of state of water based on speeds of sound measured in the diamond-anvil cell. Geochimica Et Cosmochimica Acta, 2004, 68, 1827-1835.	1.6	91
591	Complicated effects of aluminum on the compressibility of silicate perovskite. Physics of the Earth and Planetary Interiors, 2004, 143-144, 81-91.	0.7	45
592	A critical evaluation of pressure scales at high temperatures by in situ X-ray diffraction measurements. Physics of the Earth and Planetary Interiors, 2004, 143-144, 515-526.	0.7	127
593	Mössbauer spectroscopic study of pressure-induced magnetisation in wüstite (FeO). Journal of Alloys and Compounds, 2004, 376, 5-8.	2.8	36
594	The bulk modulus of ThO ₂ —an experimental and theoretical study. Journal of Alloys and Compounds, 2004, 381, 37-40.	2.8	67
595	Refinement of the equation of state of tantalum. Physical Review B, 2004, 69, .	1.1	49
596	Raman scattering in ⁶⁷ ZnS. Physical Review B, 2004, 69, .	1.1	145
597	Equations of state of six metals above 94 GPa. Physical Review B, 2004, 70, .	1.1	693
598	Raman spectrum of cubic boron nitride at high pressure and temperature. Physical Review B, 2004, 69, .	1.1	53
599	Raman scattering and x-ray diffraction studies of polycrystalline CaCu ₃ Ti ₄ O ₁₂ under high-pressure. Physical Review B, 2004, 70, .	1.1	56
600	Diamond under pressure: Ab-initio calculations of the equation of state and optical phonon frequency revisited. High Pressure Research, 2004, 24, 101-110.	0.4	17

#	ARTICLE	IF	CITATIONS
601	Isothermal equation of state and compressional behavior of tetragonal edingtonite. <i>American Mineralogist</i> , 2004, 89, 633-639.	0.9	30
602	Pressure-induced phase transitions in $\text{Al}_2(\text{WO}_4)_3$. <i>Journal of Solid State Chemistry</i> , 2005, 178, 998-1002.	1.4	24
603	Pressure-induced low symmetry phases in Ti-rich lead zirconate titanate $\text{PbZr}_{0.20}\text{Ti}_{0.80}\text{O}_3$. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2393-2396.	2.8	10
604	Raman and IR study of high-pressure atomic phase of nitrogen. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 334, 317-325.	0.9	40
605	Crystal structure and lattice dynamics of at high pressures. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 980-982.	1.3	11
606	Hexagonal to cubic phase transition in YH_3 under high pressure. <i>Solid State Communications</i> , 2005, 133, 477-480.	0.9	50
607	Pressure-induced structural phase transition in rare-earth trihydrides. Part I. (GdH_3 , HoH_3 , LuH_3). <i>Solid State Communications</i> , 2005, 133, 481-486.	0.9	48
608	High pressure studies of the erbium-hydrogen system. <i>Solid State Communications</i> , 2005, 135, 226-231.	0.9	26
609	Investigations of pressure induced structural phase transformations in pentaerythritol. <i>Solid State Communications</i> , 2005, 136, 56-61.	0.9	2
610	Structural changes and pressure-induced amorphization in rare earth titanates $\text{RE}_2\text{Ti}_2\text{O}_7$ (RE: Gd, Sm) with pyrochlore structure. <i>Chemical Physics Letters</i> , 2005, 413, 248-251.	1.2	80
611	Interplay of metallic and ionic bonding in layered subnitrides AE_2N (AE=Ca, Sr, or Ba) under high pressure. <i>Comptes Rendus Chimie</i> , 2005, 8, 1897-1905.	0.2	24
612	High pressure structural study of SmNiO_3 . <i>Journal of Physics Condensed Matter</i> , 2005, 17, S783-S788.	0.7	25
613	High-Pressure Phase Behavior of Alumina: Predictions of a Transferable Ionic Potential Model. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2558-2564.	1.9	7
614	Compressibility and Phase Transition Kinetics of Lanthanide-Doped Zircon. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1345-1348.	1.9	10
615	Crystal chemistry of wadsleyite II and water in the Earth's interior. <i>Physics and Chemistry of Minerals</i> , 2005, 31, 691-705.	0.3	27
616	Polymorphic phase transition in Superhydrous Phase B. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 349-361.	0.3	31
617	High-pressure X-ray and Raman study of a ferrian magnesian spodumene. <i>Physics and Chemistry of Minerals</i> , 2005, 32, 132-139.	0.3	18
618	Dilithium zirconium hexafluoride Li_2ZrF_6 at high pressures: A new monoclinic phase. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1769-1774.	1.9	6

#	ARTICLE	IF	CITATIONS
619	Low-temperature and high-pressure structural behaviour of NaBi(MoO ₄) ₂ an X-ray diffraction study. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2218-2224.	1.4	44
620	Pressure-induced transition in titanium metal: a systematic study of the effects of uniaxial stress. <i>Physica B: Condensed Matter</i> , 2005, 355, 116-125.	1.3	350
621	Reversible pressure-induced structure changes in turbostratic BN-C solid solutions. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 498-503.	1.8	17
622	Synchrotron radiation and high pressure: new light on materials under extreme conditions. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 135-154.	1.0	49
623	Single-crystal synchrotron X-ray diffraction study of w ^{1/4} stite and magnesiow ^{1/4} stite at lower-mantle pressures. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 577-583.	1.0	41
624	SrWO ₄ at high pressures. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2795-2802.	0.7	23
625	The crystal data and stability of calcite III at high pressures based on single-crystal X-ray experiments. <i>Journal of Mineralogical and Petrological Sciences</i> , 2005, 100, 31-36.	0.4	14
627	Calibration based on a primary pressure scale in a multi-anvil device. , 2005, , 427-449.		3
628	A gigahertz ultrasonic interferometer for the diamond anvil cell and high-pressure elasticity of some iron-oxide minerals. , 2005, , 25-48.		11
629	Molecules to Microbes. , 2005, , 83-108.		1
630	Aqueous Chemistry in the Diamond Anvil Cell up to and Beyond the Critical Point of Water. , 2005, , 223-240.		6
631	The Equation of State and Chemistry at Extreme Conditions. , 2005, , 399-429.		0
632	Nitrogen-Containing Molecular Systems at High Pressures and Temperature. , 2005, , 189-222.		2
633	Re-examination of the hydrogarnet structure at high pressure using neutron powder diffraction and infrared spectroscopy. <i>American Mineralogist</i> , 2005, 90, 639-644.	0.9	29
634	The effect of pressure on the structural properties of the spin-tetrahedra compound Cu ₂ Te ₂ O ₅ Br ₂ . <i>Journal of Physics Condensed Matter</i> , 2005, 17, S807-S812.	0.7	9
635	One picture says it all "high-pressure cells for neutron Laue diffraction on VIVALDI. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3017-S3024.	0.7	21
636	Synchrotron facilities and the study of the Earth's deep interior. <i>Reports on Progress in Physics</i> , 2005, 68, 1811-1859.	8.1	69
637	Pressure-Induced Shifts of <i>R</i> , <i>R</i> ² , and <i>B</i> Line-Groups and Ground-State Zero-Field-Splitting of Ruby. <i>Communications in Theoretical Physics</i> , 2005, 43, 941-947.	1.1	6

#	ARTICLE	IF	CITATIONS
638	Vibrational properties of delafossite CuGaO_2 at ambient and high pressures. <i>Physical Review B</i> , 2005, 72, .	1.1	74
639	Infrared properties of the quasi-one-dimensional superconductor $\text{Na}_0.33\text{V}_2\text{O}_5$ under pressure. <i>Physical Review B</i> , 2005, 71, .	1.1	22
640	Post- PbCl_2 phase transformation of TeO_2 . <i>Physical Review B</i> , 2005, 72, .	1.1	10
641	Amorphization of natrolite and edingtonite at high pressure. <i>European Journal of Mineralogy</i> , 2005, 17, 201-206.	0.4	15
642	High-pressure stability of the tetragonal spinel MgMn_2O_4 : Role of inversion. <i>Physical Review B</i> , 2005, 71, .	1.1	22
643	Phase transitions in $\text{Sc}_2(\text{WO}_4)_3$ under high pressure. <i>Physical Review B</i> , 2005, 72, .	1.1	25
644	Vibrational spectroscopy of $\text{Fe}(\text{OH})_2$ at high pressure: Behavior of the O-H bond. <i>Physical Review B</i> , 2005, 71, .	1.1	25
645	Structural properties of the sesquicarbide superconductor La_2C_3 at high pressure. <i>Physical Review B</i> , 2005, 72, .	1.1	15
646	Raman scattering in osmium under pressure. <i>Physical Review B</i> , 2005, 71, .	1.1	16
647	Electronic stiffness of a superconducting niobium nitride single crystal under pressure. <i>Physical Review B</i> , 2005, 72, .	1.1	29
648	High-pressure phase diagram of $\text{Zn}_x\text{Se}_{1-x}\text{Te}$ alloys. <i>Physical Review B</i> , 2005, 71, .	1.1	14
649	High-pressure structural study of the scheelite tungstates CaWO_4 and SrWO_4 . <i>Physical Review B</i> , 2005, 72, .	1.1	159
650	Hard superconducting nitrides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3198-3201.	3.3	256
651	Anomalous elastic behavior and high-pressure structural evolution of zeolite lewyne. <i>American Mineralogist</i> , 2005, 90, 645-652.	0.9	33
652	The high-pressure structural phase transitions of sodium bismuth titanate. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2005, 220, 717-725.	0.4	25
653	Pressure dependence of the OH-stretching mode in F-rich natural topaz and topaz-OH. <i>American Mineralogist</i> , 2005, 90, 266-270.	0.9	18
654	Stability of Hume-Rothery phases in Cu-Zn alloys at pressures up to 50 GPa. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 7955-7962.	0.7	16
655	Iron spin transition in Earth's mantle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17918-17922.	3.3	180

#	ARTICLE	IF	CITATIONS
656	A comparative study of fibrous zeolites under pressure. <i>European Journal of Mineralogy</i> , 2005, 17, 411-422.	0.4	60
657	X-ray diffraction and Raman studies of beryllium: Static and elastic properties at high pressures. <i>Physical Review B</i> , 2005, 72, .	1.1	42
658	Relative stability and elastic properties of hcp, bcc, and fcc beryllium under pressure. <i>Physical Review B</i> , 2005, 71, .	1.1	71
659	Melting of Copper and Nickel at High Pressure: The Role of Electrons. <i>Physical Review Letters</i> , 2005, 95, 167801.	2.9	116
660	The high-pressure phase of alumina and implications for Earth's D'' layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10828-10831.	3.3	110
661	Structural Investigation of $\hat{\Gamma}$ -stabilized Plutonium Alloys Under Pressure. <i>Materials Research Society Symposia Proceedings</i> , 2005, 893, 1.	0.1	3
662	lkaite ($\text{CaCO}_3 \cdot 6\text{H}_2\text{O}$) compressibility at high water pressure: a synchrotron X-ray diffraction study. <i>Mineralogical Magazine</i> , 2005, 69, 325-335.	0.6	15
663	High-Pressure Dissociation of Crystalline para-Diiodobenzene: $\hat{\Lambda}$ Optical Experiments and Car $\hat{\Lambda}$ Parrinello Calculations. <i>Journal of the American Chemical Society</i> , 2005, 127, 3038-3043.	6.6	16
664	Far-Infrared Spectroscopy of Electronic States of CuIr_2Se_4 at High Pressure. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1099-1102.	0.7	15
665	Structural Refinement of the High-Pressure Phase of Aluminum Trihydroxide: $\hat{\Lambda}$ In-Situ High-Pressure Angle Dispersive Synchrotron X-ray Diffraction and Theoretical Studies. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8857-8860.	1.2	22
666	X-ray diffraction at high pressure and high or low temperature using synchrotron radiation. <i>Journal of Alloys and Compounds</i> , 2005, 401, 11-17.	2.8	23
667	Bulk modulus of CeO_2 and PrO_2 —An experimental and theoretical study. <i>Journal of Alloys and Compounds</i> , 2005, 400, 56-61.	2.8	226
668	In situ X-ray diffraction study of post-spinel transformation in a peridotite mantle: Implication for the 660-km discontinuity. <i>Earth and Planetary Science Letters</i> , 2005, 238, 311-328.	1.8	108
669	Melting Curve and High-Pressure Chemistry of Formic Acid to 8 GPa and 600 K. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19443-19447.	1.2	22
670	Evidence for monazite-, barite-, and AgMnO_4 (distorted barite)-type structures of CaSO_4 at high pressure and temperature. <i>American Mineralogist</i> , 2005, 90, 22-27.	0.9	47
671	Octahedral tilting evolution and phase transition in orthorhombic NaMgF_3 perovskite under pressure. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	46
672	High-pressure sound velocities and elasticity of aluminous MgSiO_3 perovskite to 45 GPa: Implications for lateral heterogeneity in Earth's lower mantle. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	39
673	Fe^{3+} and Al solubilities in MgSiO_3 perovskite: implication of the $\text{Fe}^{3+} + \text{AlO}_3$ substitution in MgSiO_3 perovskite at the lower mantle condition. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	33

#	ARTICLE	IF	CITATIONS
674	Effect of pressure on the structural properties and Raman modes of LiCoO ₂ . Physical Review B, 2005, 72, .	1.1	48
675	Finite-size and pressure effects on the Raman spectrum of nanocrystalline anatase TiO ₂ . Physical Review B, 2005, 71, .	1.1	374
676	Progress in the realization of a practical pressure scale for the range 1–300 GPa. High Pressure Research, 2005, 25, 87-99.	0.4	37
677	Pressure-induced tricritical phase transition from the scheelite structure to the fergusonite structure in LiLuF ₄ . Journal of Physics Condensed Matter, 2005, 17, 763-770.	0.7	20
678	P-V equation of State, thermal expansion, and P-T stability of synthetic zincochromite (ZnCr ₂ O ₄). Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 5	0.9	44
679	Rietveld refinement study of the pressure dependence of the internal structural parameter in the wurtzite phase of ZnO. Physical Review B, 2005, 71, .	1.1	71
680	Crystal structural phase transition in CaCrO ₄ under high pressure. Journal of Physics Condensed Matter, 2006, 18, 2421-2428.	0.7	20
681	Elastic behavior, phase transition, and pressure induced structural evolution of analcime. American Mineralogist, 2006, 91, 568-578.	0.9	63
682	Raman Spectroscopic Study on the Hydration Structures of Tetraethylammonium Cation in Water. Journal of Physical Chemistry A, 2006, 110, 10829-10833.	1.1	34
683	Phase Transitions in Solids Stimulated by Simultaneous Exposure to High Pressure and Relativistic Heavy Ions. Physical Review Letters, 2006, 96, 195701.	2.9	51
684	Effect of pressure on the resonant multiphonon Raman scattering in UO ₂ . Physical Review B, 2006, 73, .	1.1	116
685	O ₈ Cluster Structure of the Epsilon Phase of Solid Oxygen. Physical Review Letters, 2006, 97, 085503.	2.9	115
686	Spin crossover in (Mg,Fe)O: A Mössbauer effect study with an alternative interpretation of x-ray emission spectroscopy data. Physical Review B, 2006, 73, .	1.1	68
687	A high-pressure Raman spectroscopic study of hafnon, HfSiO ₄ . American Mineralogist, 2006, 91, 1888-1892.	0.9	35
688	High-pressure x-ray and neutron powder diffraction study of PbWO ₄ and BaWO ₄ scheelites. Journal of Physics Condensed Matter, 2006, 18, 3017-3029.	0.7	29
689	Pressure and temperature dependence of the lattice dynamics of CuAlO ₂ investigated by Raman scattering experiments and ab initio calculations. Physical Review B, 2006, 74, .	1.1	93
690	High-pressure chemistry of nitride-based materials. Chemical Society Reviews, 2006, 35, 987.	18.7	200
691	High-pressure structural study of Fe ₆₄ Ni ₃₆ and Fe ₇₂ Pt ₂₈ Invar alloys at low-temperature. Physical Review B, 2006, 74, .	1.1	23

#	ARTICLE	IF	CITATIONS
692	Structural stability and pressure-induced phase transitions in MgH ₂ . Physical Review B, 2006, 73, .	1.1	154
693	Liquidlike Behavior of Supercritical Fluids. Physical Review Letters, 2006, 97, 245702.	2.9	98
694	Pressure-induced elastic softening of monocrystalline zirconium tungstate at 300K. Physical Review B, 2006, 73, .	1.1	49
695	Equation of state of antigorite, stability field of serpentines, and seismicity in subduction zones. Geophysical Research Letters, 2006, 33, .	1.5	62
696	Crystal structure and equation of state of MgSiO ₃ perovskite. Geophysical Research Letters, 2006, 33, .	1.5	41
697	High-pressure elasticity of calcium oxide: A comparison between Brillouin spectroscopy and radial X-ray diffraction. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	37
698	Single-crystal elasticity and sound velocities of (Mg _{0.94} Fe _{0.06})O ferropericlase to 20 GPa. Journal of Geophysical Research, 2006, 111, .	3.3	43
699	High-pressure phase transition in Mn ₂ O ₃ : Application for the crystal structure and preferred orientation of the CaIrO ₃ type. Geophysical Research Letters, 2006, 33, .	1.5	55
700	Elastic properties of hydrous ringwoodite at high-pressure conditions. Geophysical Research Letters, 2006, 33, .	1.5	45
701	Physical and mechanical properties of C ₆₀ under high pressures and high temperatures. High Pressure Research, 2006, 26, 175-183.	0.4	13
702	Determination of the high-pressure crystal structure of BaWO ₄ and PbWO ₄ . Physical Review B, 2006, 73, .	1.1	95
703	Different incommensurate composite crystal structure for Sc-II. Physical Review B, 2006, 73, .	1.1	46
704	Structure and stability of ZrSiO ₄ under hydrostatic pressure. Physical Review B, 2006, 74, .	1.1	40
705	Superconductivity at 17K in yttrium metal under nearly hydrostatic pressures up to 89GPa. Physical Review B, 2006, 73, .	1.1	63
706	Subsolidus phase relations and perovskite compressibility in the system MgO-Al ₂ O ₃ -SiO ₂ with implications for Earth's lower mantle. Earth and Planetary Science Letters, 2006, 248, 77-89.	1.8	33
707	Factors Determining the Stability, Resolution, and Precision of a Conventional Raman Spectrometer. Applied Spectroscopy, 2006, 60, 946-950.	1.2	69
708	High pressure X-ray diffraction study of all Fe-Sn intermetallic compounds and one Fe-Sn solid solution. Journal of Alloys and Compounds, 2006, 422, 132-144.	2.8	75
709	Experimental study of the NaCl-H ₂ O system up to 28GPa: Implications for ice-rich planetary bodies. Physics of the Earth and Planetary Interiors, 2006, 155, 152-162.	0.7	35

#	ARTICLE	IF	CITATIONS
710	Phase transformations of subducted basaltic crust in the upmost lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 157, 139-149.	0.7	72
711	Pressure-frozen benzene I revisited. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 94-101.	1.8	69
712	Cis/trans isomers of PtX ₂ L ₂ (X = halogen, L = neutral ligand); the crystal structure of trans-dichlorobis(dimethyl sulfide)platinum(II) and the pressure dependence of its unit-cell dimensions. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 474-479.	1.8	10
713	Competing hydrogen-bonding patterns and phase transitions of 1,2-diaminoethane at varied temperature and pressure. <i>Acta Crystallographica Section B: Structural Science</i> , 2006, 62, 1078-1089.	1.8	25
714	High-pressure X-ray investigation of zincite ZnO single crystals using diamond anvils with an improved shape. <i>Journal of Applied Crystallography</i> , 2006, 39, 169-175.	1.9	135
715	High pressure - high temperature studies and reactivity of β -Mo ₂ N and β -MoN. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 831-836.	0.8	29
716	Pressure-dependent infrared spectroscopy on the fullerene rotor-stator compound C ₆₀ -C ₈ H ₈ . <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2981-2984.	0.7	10
717	Structure of the intermediate high-pressure phases of ternary lead tellurides. <i>JETP Letters</i> , 2006, 83, 228-232.	0.4	17
718	High-pressure far-infrared absorption measurements on La _{1-x} CaxMnO ₃ by means of synchrotron radiation. <i>Infrared Physics and Technology</i> , 2006, 49, 92-95.	1.3	0
719	High-pressure infrared spectroscopy on quasi-one-dimensional metals. <i>Infrared Physics and Technology</i> , 2006, 49, 88-91.	1.3	6
720	Development of a low-pressure diamond anvil cell and analytical tools to monitor microbial activities in situ under controlled P and T. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 434-442.	1.1	31
721	Radiation-induced decomposition of PETN and TATB under pressure. <i>Chemical Physics Letters</i> , 2006, 429, 304-309.	1.2	15
722	μ SR study of short-range charge order in YNiO ₃ above the monoclinic-orthorhombic transition. <i>Physica B: Condensed Matter</i> , 2006, 374-375, 87-90.	1.3	7
723	High pressure X-ray diffraction study of tungsten disulfide. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2183-2186.	1.9	36
724	Theoretical investigation of the Cu EOS standard. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2033-2040.	1.9	36
725	Pressure-induced structural changes of the tetragonal Bi ₂ CuO ₄ . <i>Journal of Solid State Chemistry</i> , 2006, 179, 1202-1207.	1.4	1
726	High-pressure studies of SrNi ₃ (P ₂ O ₇) ₂ pyrophosphate by Raman spectroscopy and X-ray diffraction. <i>Journal of Molecular Structure</i> , 2006, 794, 334-340.	1.8	14
727	X-ray diffraction investigation of the hexagonal-fcc structural transition in yttrium trihydride under hydrostatic pressure. <i>Solid State Communications</i> , 2006, 138, 436-440.	0.9	59

#	ARTICLE	IF	CITATIONS
728	Raman and x-ray diffraction investigations on BaMoO ₄ under high pressures. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3917-3929.	0.7	35
729	Advances in data reduction of high-pressure x-ray powder diffraction data from two-dimensional detectors: a case study of schafarikite (FeSb ₂ O ₄). <i>Journal of Physics Condensed Matter</i> , 2006, 18, S1021-S1037.	0.7	13
730	Dynamic compression of materials: metallization of fluid hydrogen at high pressures. <i>Reports on Progress in Physics</i> , 2006, 69, 1479-1580.	8.1	192
731	Equations of state of Al, Au, Cu, Pt, Ta, and W and revised ruby pressure scale. <i>Doklady Earth Sciences</i> , 2006, 410, 1091-1095.	0.2	22
732	Measuring the speed of sound in an iron-nickel alloy at high pressure by inelastic X-ray scattering. <i>Doklady Physics</i> , 2006, 51, 584-587.	0.2	0
733	Elastic properties and stability of coexisting 3T and 2M 1 phengite polytypes. <i>Physics and Chemistry of Minerals</i> , 2006, 32, 670-678.	0.3	24
734	On the elastic behaviour of zeolite mordenite: a synchrotron powder diffraction study. <i>Physics and Chemistry of Minerals</i> , 2006, 32, 726-732.	0.3	27
735	Pressure-induced phase transition in Mg _{0.8} Fe _{0.2} O ferropericlae. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 35-44.	0.3	24
736	Crystal structure and compression of an iron-bearing Phase A to 33 ÅGPa. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 192-199.	0.3	16
737	Elastic behaviour and structural evolution of topaz at high pressure. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 235-242.	0.3	22
738	Structural evolution of zeolite levyne under hydrostatic and non-hydrostatic pressure: geometric modelling. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 243-255.	0.3	22
739	Pressure effect on the electronic structure of iron in (Mg,Fe)(Si,Al)O ₃ perovskite: a combined synchrotron Mössbauer and X-ray emission spectroscopy study up to 100 ÅGPa. <i>Physics and Chemistry of Minerals</i> , 2006, 33, 575-585.	0.3	77
740	High-pressure structure of LaSr ₂ Mn ₂ O ₇ bilayer manganite. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2046-2050.	1.9	10
741	X-ray diffraction study of molybdenum disulfide to 38.8 GPa. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1914-1917.	1.9	78
742	Structural behavior of Sr ₂ Bi ₂ O ₅ at high pressures. <i>Journal of Solid State Chemistry</i> , 2006, 179, 544-550.	1.4	7
743	Pressure-induced structural changes in Bi ₂ SrO ₄ compound. <i>Materials Research Bulletin</i> , 2006, 41, 2007-2012.	2.7	0
744	Pressure-induced order-disorder transitions in pyrochlore RE ₂ Ti ₂ O ₇ (RE=Y, Gd). <i>Materials Letters</i> , 2006, 60, 2773-2776.	1.3	66
745	Thickness Dependence of Residual Stress in Alkoxide-Derived Pb(Zr _{0.3} Ti _{0.7})O ₃ Thin Film by Chemical Solution Deposition. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7265-7269.	0.8	22

#	ARTICLE	IF	CITATIONS
746	Equation of state and phase transition in KAlSi_3O_8 hollandite at high pressure. <i>American Mineralogist</i> , 2006, 91, 327-332.	0.9	37
747	Synchrotron infrared spectroscopy of synthetic $\text{Na}(\text{NaMg})\text{Mg}_5\text{Si}_8\text{O}_{22}(\text{OH})_2$ up to 30 GPa: Insight on a new high-pressure amphibole polymorph. <i>American Mineralogist</i> , 2006, 91, 479-482.	0.9	12
748	Sound velocities and elastic constants of ZnAl_2O_4 spinel and implications for spinel-elasticity systematics. <i>American Mineralogist</i> , 2006, 91, 1049-1054.	0.9	48
749	High-pressure behavior of synthetic antigorite in the $\text{MgO-SiO}_2\text{-H}_2\text{O}$ system from Raman spectroscopy. <i>American Mineralogist</i> , 2006, 91, 459-462.	0.9	27
750	Single-crystal elasticity of brucite, $\text{Mg}(\text{OH})_2$, to 15 GPa by Brillouin scattering. <i>American Mineralogist</i> , 2006, 91, 1893-1900.	0.9	56
751	The compressibility mechanism of $\text{Li}_3\text{Na}_3\text{In}_2\text{F}_{12}$ garnet. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2915-2924.	0.7	3
752	Pressure-Induced Distortive Phase Transition in Chromite-Spinel at 29 GPa. <i>Materials Research Society Symposia Proceedings</i> , 2006, 987, 1.	0.1	4
753	Pressure Dependence of Electron Density Distribution of Ferroelectric KNbO_3 Polymorphs by Maximum Entropy Method (MEM) Using Single Crystal Diffraction Study. <i>Materials Research Society Symposia Proceedings</i> , 2006, 987, 1.	0.1	0
754	The effect of Ca substitution on the elastic and structural behavior of orthoenstatite. <i>American Mineralogist</i> , 2006, 91, 809-815.	0.9	31
755	Pressure-induced deconfinement of the charge transport in the quasi-one-dimensional Mott insulator $(\text{TMTTF})_2\text{AsF}_6$. <i>Physical Review B</i> , 2006, 74, .	1.1	65
756	Pressure-induced antiferroite-to-antiferroite phase transition in lithium oxide. <i>Physical Review B</i> , 2006, 73, .	1.1	54
757	Accurate Equation of State of AlPdMn up to 35 GPa and Pressure Effect on the Frozen-In Phason Strain. <i>Physical Review Letters</i> , 2006, 96, 105501.	2.9	5
758	Pressure-induced long-range magnetic ordering in cobalt oxide. <i>Physical Review B</i> , 2006, 74, .	1.1	16
759	Raman spectrum of ammonia IV. <i>Physical Review B</i> , 2006, 74, .	1.1	31
760	Megabar-Pressure Infrared Study of Hydrogen Deuteride. <i>Physical Review Letters</i> , 2006, 97, 255701.	2.9	9
761	Lattice dynamics study of scheelite tungstates under high pressure I. BaWO_4 . <i>Physical Review B</i> , 2006, 74, .	1.1	91
762	Crystal structure of oligoacenes under high pressure. <i>Physical Review B</i> , 2006, 74, .	1.1	56
763	Electronic structure and magnetic properties of cubic and hexagonal SrMnO_3 . <i>Physical Review B</i> , 2006, 74, .	1.1	152

#	ARTICLE	IF	CITATIONS
764	Volume expansion contribution to the magnetism of atomically disordered intermetallic alloys. <i>Physical Review B</i> , 2006, 74, .	1.1	59
765	Electronic properties of correlated metals in the vicinity of a charge-order transition: Optical spectroscopy of $(\text{BEDT-TTF})_2\text{MHg}(\text{SCN})_4$ ($M=\text{NH}_4, \text{Rb}, \text{Tl}$). <i>Physical Review B</i> , 2006, 74, .	1.1	44
766	Complex monoclinic superstructure in Sr-IV. <i>Physical Review B</i> , 2006, 73, .	1.1	25
767	High-pressure structure of half-metallic CrO_2 . <i>Physical Review B</i> , 2006, 73, .	1.1	44
768	Possible pressure-induced insulator-to-metal transition in low-dimensional TiOCl . <i>Physical Review B</i> , 2006, 74, .	1.1	38
769	Effect of pressure on the polarized infrared optical response of the quasi-one-dimensional conductor LaTiO_3 . <i>Physical Review B</i> , 2006, 74, .	1.1	17
770	An Overview of the High-Pressure Vibrational Spectra of Clays and Related Minerals. <i>Applied Spectroscopy Reviews</i> , 2006, 41, 449-471.	3.4	16
771	Structural transformation of compressed solid Ar: An x-ray diffraction study to 114 GPa. <i>Physical Review B</i> , 2006, 73, .	1.1	132
772	High-pressure Raman scattering and structural phase transition in YCrO_4 . <i>Physical Review B</i> , 2006, 74, .	1.1	28
773	Phase transition and electronic properties of fluorene: A joint experimental and theoretical high-pressure study. <i>Physical Review B</i> , 2006, 73, .	1.1	26
774	Calculation of the equation of state of fcc Au from first principles. <i>Physical Review B</i> , 2006, 73, .	1.1	25
775	Effect of pressure on the Raman modes of antimony. <i>Physical Review B</i> , 2006, 74, .	1.1	79
776	Vibrational spectroscopy and x-ray diffraction of $\text{Cd}(\text{OH})_2$ to 28 GPa at 300 K. <i>Physical Review B</i> , 2006, 74, .	1.1	19
777	High-pressure, high-temperature phase diagram of InSe: A comprehensive study of the electronic and structural properties of the monoclinic phase of InSe under high pressure. <i>Physical Review B</i> , 2006, 73, .	1.1	37
779	Toward an internally consistent pressure scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9182-9186.	3.3	566
780	Theory and Practice – Techniques for Measuring High P/T Elasticity. , 2007, , 269-291.		3
781	Theory and Practice – Diamond-Anvil Cells and Probes for High P-T Mineral Physics Studies. , 2007, , 231-267.		16
782	Theory and Practice – Measuring High-Pressure Electronic and Magnetic Properties. , 2007, , 293-337.		1

#	ARTICLE	IF	CITATIONS
783	Raman spectroscopy study of Zn _{1-x} MnxSe thin films under high-pressure. Journal of Applied Physics, 2007, 101, 103535.	1.1	2
784	Pressure induced structural phase transition in triglycine sulfate and triglycine selenate. Journal of Chemical Physics, 2007, 127, 154712.	1.2	10
785	Theory and Practice: Diamond-Anvil Cells and Probes for High-Pressure Mineral Physics Studies. , 2007, , 263-291.		4
786	P-V and T-V Equations of State of natural biotite: An in-situ high-pressure and high-temperature powder diffraction study, combined with Mossbauer spectroscopy. American Mineralogist, 2007, 92, 1158-1164.	0.9	21
787	Pressure Calibrants in the Hydrothermal Diamond-Anvil Cell. International Geology Review, 2007, 49, 289-300.	1.1	7
788	In situ Raman spectroscopy of low-temperature/high-pressure transformations of H ₂ O. Journal of Chemical Physics, 2007, 126, 174505.	1.2	34
789	Equations of state of CaTiO ₃ perovskite and post-perovskite phases. American Mineralogist, 2007, 92, 1760-1763.	0.9	33
790	Oxygen isotope effect in a high-temperature superconductor under high pressure. Journal of Physics Condensed Matter, 2007, 19, 425236.	0.7	1
791	Crystal structure and stability of $\text{Pb-Na}_2\text{ThF}_6$ at non-ambient conditions. Journal of Physics Condensed Matter, 2007, 19, 266219.	0.7	18
792	High-Pressure Phase Transition in CTAB-Micellar Solutions: A Raman Spectroscopic Study. Chinese Physics Letters, 2007, 24, 3085-3087.	1.3	6
793	High-pressure behaviour of Li ₂ CaHfF ₈ scheelite. Journal of Physics Condensed Matter, 2007, 19, 096215.	0.7	2
794	Influence of New Interaction Potential on MD Simulation of MgSiO ₃ Perovskite Thermodynamic Properties. Chinese Journal of Chemical Physics, 2007, 20, 547-551.	0.6	4
795	ac susceptibility studies of the weak itinerant ferromagnet SrRuO_3 under high pressure to $\text{Ca}_3\text{Ru}_2\text{O}_{10}$	1.1	35
796	Crystal structure of $\text{Ca}_3\text{Ru}_2\text{O}_{10}$	1.1	63
797	Yield strength of molybdenum at high pressures. Review of Scientific Instruments, 2007, 78, 073906.	0.6	17
798	Pressure-induced metallization and structural phase transition of the Mott-Hubbard insulator TiOBr. Physical Review B, 2007, 76, .	1.1	17
799	Compressibility measurements and phonon spectra of hexagonal transition-metal nitrides at high pressure: Ta_3N_5 , Mo_3N_5 , and Cr_2N . Physical Review B, 2007, 75, .	1.1	60
800	High-pressure structural changes in the Gd_2O_7 pyrochlore. Physical Review B, 2007, 76, .	1.1	19

#	ARTICLE	IF	CITATIONS
801	Phonon pressure coefficient as a probe of the strain status of self-assembled quantum dots. Applied Physics Letters, 2007, 91, 081914.	1.5	20
802	Reverse Roughening Transition in Carbon Dioxide. Physical Review Letters, 2007, 99, 165701.	2.9	8
803	High-pressure behavior of aSiO ₂ clathrate observed by using various pressure media. Physical Review B, 2007, 75, .	1.1	32
804	Pressure Dependence of the Charge-Density-Wave Gap in Rare-Earth Tritellurides. Physical Review Letters, 2007, 98, 026401.	2.9	52
805	Raman scattering from turbostratic graphitelike BC ₄ under pressure. Journal of Applied Physics, 2007, 102, 063509.	1.1	20
806	Stress and failure at mechanical contacts of microspheres under uniaxial compression. Journal of Applied Physics, 2007, 101, 084908.	1.1	5
807	Electrodynamics near the metal-to-insulator transition in V ₃ O ₅ . Physical Review B, 2007, 75, . Pressure-induced changes in the optical properties of quasi-one-dimensional	1.1	37
808	$\text{Na} > 0.33 < V < 2 < 5 <$	1.1	18
809	Pressure-induced over-hydration of thomsonite: A synchrotron powder diffraction study. American Mineralogist, 2007, 92, 1610-1615.	0.9	32
810	The effect of static disorder on pressure-induced phase transitions and amorphization in $\hat{\pm}$ -quartz-type solid solutions. Phase Transitions, 2007, 80, 1039-1049.	0.6	6
811	High-pressure study of low-compressibility Ta ₂ N. Journal of Physics Condensed Matter, 2007, 19, 425233.	0.7	11
812	Equation of state and structural studies of Na _{0.5} CoO ₂ under high pressure. Journal of Physics Condensed Matter, 2007, 19, 425238.	0.7	1
813	Single-crystal structure and electron-density analyses of Earth's interior under high-pressure and high-temperature conditions using synchrotron radiation. , 2007, , .		1
814	Contact fatigue in an alumina microcontact: A confocal laser scanning microscope study. Journal of Materials Research, 2007, 22, 3196-3200.	1.2	1
815	Sound wave velocities of fcc Fe-Ni alloy at high pressure and temperature by mean of inelastic X-ray scattering. Physics of the Earth and Planetary Interiors, 2007, 164, 83-89.	0.7	57
816	Rhombohedral (9R) and hexagonal (6H) perovskites in barium silicates under high pressure. American Mineralogist, 2007, 92, 648-654.	0.9	22
817	Raman spectroscopy of perovskite and post-perovskite phases of MgGeO ₃ to 123 GPa. Earth and Planetary Science Letters, 2007, 260, 166-178.	1.8	22
818	Placing constraints on phase equilibria and thermophysical properties in the system MgO-SiO ₂ by a thermodynamically consistent vibrational method. Geochimica Et Cosmochimica Acta, 2007, 71, 3630-3655.	1.6	32

#	ARTICLE	IF	CITATIONS
819	Pressure induced phase transformation of REH ₃ . Journal of Alloys and Compounds, 2007, 446-447, 593-597.	2.8	27
820	Pressure scales and hydrostaticity. High Pressure Research, 2007, 27, 465-472.	0.4	26
821	Optical pressure sensors for high-pressure "high-temperature studies in a diamond anvil cell. High Pressure Research, 2007, 27, 447-463.	0.4	154
822	High-pressure phase transformations in the system FeO-MgO. , 2007, , .		0
823	Ruby, metals, and MgO as alternative pressure scales: A semiempirical description of shock-wave, ultrasonic, x-ray, and thermochemical data at high temperatures and pressures. Physical Review B, 2007, 75, .	1.1	211
824	Structural studies of gadolinium at high pressure and temperature. Physical Review B, 2007, 75, .	1.1	41
825	Hydrogen Storage in Molecular Clathrates. Chemical Reviews, 2007, 107, 4133-4151.	23.0	365
826	FeO and MnO high-pressure phase diagrams: relations between structural and magnetic properties. Phase Transitions, 2007, 80, 1151-1163.	0.6	17
827	Viscosity of water measured to pressures of 6 and temperatures of 300 $^{\circ}\text{C}$.	0.8	86
828	Phonon Density of States of Metallic Sn at High Pressure. Physical Review Letters, 2007, 98, 245502.	2.9	23
829	Zinc phosphate chain length study under high hydrostatic pressure by Raman spectroscopy. Journal of Applied Physics, 2007, 101, 063505.	1.1	27
830	Constraining molecules at the closest approach: chemistry at high pressure. Chemical Society Reviews, 2007, 36, 869.	18.7	125
831	Pressurizing conditions in helium-pressure-transmitting medium. High Pressure Research, 2007, 27, 419-429.	0.4	66
832	Pressure-Induced Splitting and Buckling of Cu ²⁺ O Chains in the Low-Dimensional Structure of SrCuO ₂ . Journal of the American Chemical Society, 2007, 129, 13923-13926.	6.6	9
833	High-Pressure Vibrational Spectroscopy of Energetic Materials: Δ Hexahydro-1,3,5-trinitro-1,3,5-triazine. Journal of Physical Chemistry A, 2007, 111, 59-63.	1.1	114
834	X-ray Diffraction Study on Charge and Orbital Order in $\text{Pr}_{0.65}\text{Ca}_{0.35}\text{MnO}_3$ under High Pressure. Journal of the Physical Society of Japan, 2007, 76, 124603.	0.7	1
835	High-pressure Induced Conformational and Phase Transformations of 1,2-Dichloroethane Probed by Raman Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 7267-7273.	1.2	24
836	Thermal equation of state of cubic boron nitride: Implications for a high-temperature pressure scale. Physical Review B, 2007, 75, .	1.1	73

#	ARTICLE	IF	CITATIONS
837	Raman Spectroscopic Investigations of Pressure-Induced Phase Transitions in <i>n</i> -Hexane. Journal of Physical Chemistry B, 2007, 111, 14130-14135.	1.2	23
838	The effects of high temperature on the high-pressure behavior of CeO ₂ . Journal of Physics Condensed Matter, 2007, 19, 425213.	0.7	10
839	Crystal structure and the Mott-Hubbard gap in YTiO ₃ at high pressure. Journal of Physics Condensed Matter, 2007, 19, 406223.	0.7	19
840	Equation of state of cubic boron nitride at high pressures and temperatures. Physical Review B, 2007, 75, .	1.1	81
841	High-pressure structural behaviour of nanocrystalline Ge. Journal of Physics Condensed Matter, 2007, 19, 156217.	0.7	15
842	Structural phase transition in CaH ₂ at high pressures. Physical Review B, 2007, 75, .	1.1	47
843	Equations of state of MgO, Au, Pt, NaCl-B1, and NaCl-B2: Internally consistent high-temperature pressure scales. High Pressure Research, 2007, 27, 431-446.	0.4	232
844	Cubic boron nitride as a primary calibrant for a high temperature pressure scale. High Pressure Research, 2007, 27, 409-417.	0.4	19
845	DETERMINATION OF PRESSURE-DEPENDENT PHASE DIAGRAMS. , 2007, , 412-441.		1
846	Raman spectroscopy study of REH ₃ under pressure. Solid State Communications, 2007, 142, 337-341.	0.9	13
847	Single-crystal to single-crystal phase transition with a large deformation in Zn(OH) ₂ under high-pressure. Chemical Physics Letters, 2007, 437, 61-65.	1.2	10
848	Structural distortions and phase transformations in Sm ₂ Zr ₂ O ₇ pyrochlore at high pressures. Chemical Physics Letters, 2007, 441, 216-220.	1.2	41
849	Gismondine under HP: Deformation mechanism and re-organization of the extra-framework species. Microporous and Mesoporous Materials, 2007, 103, 190-209.	2.2	40
850	Superconductivity at 20K in yttrium metal at pressures exceeding 1Mbar. Physica C: Superconductivity and Its Applications, 2007, 451, 82-85.	0.6	42
851	Anisotropic elastic behaviour and structural evolution of zeolite phillipsite at high pressure: A synchrotron powder diffraction study. Microporous and Mesoporous Materials, 2007, 105, 239-250.	2.2	27
852	Compressibilities of disordered fluoride pyrochlores NaCdZn ₂ F ₇ and NaCaMg ₂ F ₇ . Journal of Solid State Chemistry, 2007, 180, 1998-2003.	1.4	4
853	Dependence of the band-gap pressure coefficients of self-assembled InAs/GaAs quantum dots on the quantum dot size. Physica Status Solidi (B): Basic Research, 2007, 244, 53-58.	0.7	10
854	Structural and optical high-pressure study of spinel-type MnIn ₂ S ₄ . Physica Status Solidi (B): Basic Research, 2007, 244, 229-233.	0.7	14

#	ARTICLE	IF	CITATIONS
855	Photoluminescence of CdSe quantum dots with Zn _{0.38} Cd _{0.23} Mg _{0.39} Se barriers under hydrostatic pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 397-401.	0.7	2
856	Raman scattering of capped and uncapped carbon-induced Ge dots under hydrostatic pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 76-81.	0.7	5
857	Effect of pressure on the structural properties and electronic band structure of GaSe. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 244-255.	0.7	33
858	GaS and InSe equations of state from single crystal diffraction. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 169-173.	0.7	8
859	High-pressure X-ray diffraction study of ternary and non-stoichiometric PbTe and PbSe crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 279-284.	0.7	22
860	Calibration of the ruby pressure scale to 150 GPa. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 460-467.	0.7	30
861	Infrared spectroscopy on the rotor-stator compounds C ₆₀ -C ₈ H ₈ and C ₇₀ -C ₈ H ₈ under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3857-3860.	0.7	4
862	Pressure-induced phenomena in single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3982-3985.	0.7	5
863	Evidence for a High-Pressure Phase Transition of μ -C _{2,4,6,8,10,12} -Hexanitrohexaazaisowurtzitane (CL-20) Using Vibrational Spectroscopy. <i>Propellants, Explosives, Pyrotechnics</i> , 2007, 32, 472-477.	1.0	36
864	Six-fold-coordinated phosphorus by oxygen in AlPO ₄ quartz homeotype under high pressure. <i>Nature Materials</i> , 2007, 6, 698-702.	13.3	64
865	Elastic constants and high-pressure structural transitions in lanthanum monochalcogenides from experiment and theory. <i>Physical Review B</i> , 2007, 75, .	1.1	66
866	Electron density distribution of FeTiO ₃ ilmenite under high pressure analyzed by MEM using single crystal diffraction intensities. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 307-318.	0.3	42
867	Effect of non-hydrostatic conditions on the elastic behaviour of magnetite: an in situ single-crystal X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 627-635.	0.3	44
868	Lattice preferred orientation in CaIrO ₃ perovskite and post-perovskite formed by plastic deformation under pressure. <i>Physics and Chemistry of Minerals</i> , 2007, 34, 679-686.	0.3	41
869	Optical study on metal-insulator change in PrFe ₄ P ₁₂ under high pressure. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 221-222.	1.0	1
870	Structural change of layered perovskite La ₂ Ti ₂ O ₇ at high pressures. <i>Journal of Solid State Chemistry</i> , 2007, 180, 571-576.	1.4	43
871	Structural changes of Na _x CoO ₂ (x=0.74) at high pressures. <i>Journal of Solid State Chemistry</i> , 2007, 180, 1759-1763.	1.4	9
872	High-pressure structural evolution of a perovskite solid solution (La _{1-x} Nd _x)GaO ₃ . <i>Journal of Solid State Chemistry</i> , 2007, 180, 3408-3424.	1.4	30

#	ARTICLE	IF	CITATIONS
873	Na ₂ TiGeO ₅ : Crystal structure stability at low temperature and high pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 815-821.	1.9	4
874	Pressure-induced phase transformations in L-alanine crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1641-1645.	1.9	30
875	Stiffening of nanoscale anatase Ti _{0.9} Zr _{0.1} O ₂ upon multiple compression cycles. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2230-2233.	1.9	5
876	Pressure induced phase transformation in U ₂ O(PO ₄) ₂ . <i>Journal of Solid State Chemistry</i> , 2008, 181, 1240-1248.	1.4	4
877	High-pressure modifications of CaZn ₂ , SrZn ₂ , SrAl ₂ , and BaAl ₂ : Implications for Laves phase structural trends. <i>Journal of Solid State Chemistry</i> , 2008, 181, 3016-3023.	1.4	22
878	Room-temperature equation of state of Li ₂ VOSiO ₄ up to 8.5 ÅGPa. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 71-76.	0.3	0
879	Raman study of radiation-damaged zircon under hydrostatic compression. <i>Physics and Chemistry of Minerals</i> , 2008, 35, 597-602.	0.3	23
880	Tl ₂ CO ₃ at 3.56 GPa. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008, 64, i69-i70.	0.4	7
881	The Low-Temperature High-Pressure Phase Diagram of Energetic Materials: I. Hexahydro-1,3,5-Trinitro-s-triazine. <i>Propellants, Explosives, Pyrotechnics</i> , 2008, 33, 390-395.	1.0	40
882	Infrared microreflectance study of the pressure effect on the structural properties of magnetically aligned single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2288-2291.	0.7	2
883	Infrared spectroscopy on the fullerene C ₇₀ under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2006-2009.	0.7	3
884	High-pressure X-ray diffraction study of SrMoO ₄ and pressure-induced structural changes. <i>Journal of Solid State Chemistry</i> , 2008, 181, 355-364.	1.4	94
885	Twinned tetragonal structure and equation of state of NaTh ₂ F ₉ . <i>Journal of Solid State Chemistry</i> , 2008, 181, 971-975.	1.4	14
886	High-pressure single-crystal X-ray diffraction of Tl ₂ SeO ₄ . <i>Journal of Solid State Chemistry</i> , 2008, 181, 2914-2917.	1.4	6
887	X-ray diffraction study of molybdenum diselenide to 35.9 GPa. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2138-2140.	1.9	21
888	Radiation-induced decomposition of explosives under extreme conditions. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2208-2212.	1.9	6
889	High-pressure X-ray diffraction study of tungsten diselenide. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2311-2314.	1.9	21
890	Axial ratio anomalies and electronic topological transitions in Cd _{0.8} Hg _{0.2} at high pressures. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 2325-2331.	1.9	4

#	ARTICLE	IF	CITATIONS
891	Interpenetrated structure and compressibility studies in pressure frozen pentafluoropyridine crystals at 0.3 and 1.1GPa. Journal of Fluorine Chemistry, 2008, 129, 173-177.	0.9	15
892	High-pressure freezing, crystal structure studies and SiCF ₃ bond polarizability of trimethyl(trifluoromethyl)silane. Journal of Fluorine Chemistry, 2008, 129, 1090-1095.	0.9	11
893	High-pressure Raman study on the decomposition of crystalline Cr(CO) ₆ . Chemical Physics Letters, 2008, 454, 242-246.	1.2	4
894	Effect of pressure on the crystal structure of ettringite. Cement and Concrete Research, 2008, 38, 19-26.	4.6	45
895	Phase transformation in Sm ₂ O ₃ at high pressure: In situ synchrotron X-ray diffraction study and ab initio DFT calculation. Solid State Communications, 2008, 145, 250-254.	0.9	59
896	High pressure deformation mechanism of Li-ABW: Synchrotron XRPD study and ab initio molecular dynamics simulations. Microporous and Mesoporous Materials, 2008, 115, 267-280.	2.2	32
897	Pressure-induced structural evolution and elastic behaviour of Na ₆ Cs ₂ Ga ₆ Ge ₆ O ₂₄ ·Ge(OH) ₆ variant of cancrinite: A synchrotron powder diffraction study. Microporous and Mesoporous Materials, 2008, 116, 51-58.	2.2	10
898	High-pressure studies of NaCo(H ₂ PO ₃) ₃ ·H ₂ O phosphite by Raman spectroscopy. Journal of Molecular Structure, 2008, 876, 250-254.	1.8	7
899	High-pressure study of the Sr ₂ CoWO ₆ ordered double perovskite tungstate oxide. Journal of Molecular Structure, 2008, 888, 244-252.	1.8	29
900	High pressure Raman study of La _{1-x} CaxMnO _{3-δ} manganites. European Physical Journal B, 2008, 66, 301-305.	0.6	6
901	Radiation-Induced Decomposition of PETN and TATB under Extreme Conditions. Journal of Physical Chemistry A, 2008, 112, 3352-3359.	1.1	30
902	The high pressure crystal structures of tin sulphate: a case study for maximal information recovery from 2D powder diffraction data. Zeitschrift Fur Kristallographie - Crystalline Materials, 2008, 223, 195-203.	0.4	11
903	Electron-lattice interaction under high-pressure examined by maximum entropy method using single-crystal diffraction. High Pressure Research, 2008, 28, 203-216.	0.4	1
904	Cubic to Tetragonal Phase Transformation in Cold-Compressed Pd Nanocubes. Nano Letters, 2008, 8, 972-975.	4.5	89
905	Ruby under pressure. High Pressure Research, 2008, 28, 75-126.	0.4	367
906	High pressure-high temperature equations of state of neon and diamond. Physical Review B, 2008, 77, .	1.1	176
907	High-pressure behavior of As_2S_3 Amorphous-amorphous and crystalline-amorphous transitions. Physical Review B, 2008, 77, .		
908	A crystalline-to-crystalline phase transition in Ca(OH) ₂ at 8 GPa and room temperature. Geophysical Research Letters, 2008, 35, .	1.5	19

#	ARTICLE	IF	CITATIONS
909	Pressure–volume–temperature relations in MgO: An ultrahigh pressure–temperature scale for planetary sciences applications. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	84
910	Orientational Ordering and Intermolecular Interactions in the Rotor-Stator Compounds $C_{60} \cdot C_{8H_8}$ and $C_{70} \cdot C_{8H_8}$ Studied under Pressure. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17525-17532.	1.5	11
911	Structural stability of Fe_5Si_3 and Ni_2S studied by high-pressure x-ray diffraction and ab initio total-energy calculations. <i>Physical Review B</i> , 2008, 77, . Uncovering a Pressure-Tuned Electronic Transition in $Bi_{1.98}Sr_{0.02}Y_{0.68}Cu_2O_8$ <i>Physical Review Letters</i> , 2008, 100, 217003.	1.1	51
912			
913	Effects of High Pressure on the Luminescence Spectra of $Eu(SO_4)_2 \cdot NH_4$ Microcrystals: Anisotropically Induced Structural Distortions. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1464-1472.	1.1	16
914	Growth, characterization, and high-pressure optical studies of $CuWO_4$. <i>High Pressure Research</i> , 2008, 28, 565-570.	0.4	67
915	Structural transition of post-spinel phases $CaMn_2O_4$, $CaFe_2O_4$, and $CaTi_2O_4$ under high pressures up to 80 GPa. <i>American Mineralogist</i> , 2008, 93, 1874-1881.	0.9	78
916	Compression curves of transition metals in the Mbar range: Experiments and projector augmented-wave calculations. <i>Physical Review B</i> , 2008, 78, .	1.1	383
917	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite $ZnGa_2Se_4$ and defect-chalcopyrite $CdGa_2S_4$. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	58
918	High-Pressure Studies of $(Mg_{0.9}Fe_{0.1})_2SiO_4$ Olivine Using Raman Spectroscopy, X-ray Diffraction, and Mössbauer Spectroscopy. <i>Inorganic Chemistry</i> , 2008, 47, 2668-2673.	1.9	24
919	Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa. <i>Journal of Physics: Conference Series</i> , 2008, 121, 022018.	0.3	80
920	High pressure structural and elastic properties of NiO up to 67 GPa. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	11
921	Viscosity of nitrogen measured to pressures of 7 GPa and temperatures of 573 K. <i>Physical Review E</i> , 2008, 77, 041202.	0.8	45
922	Phase transitions in Cd_3P_2 at high pressures and high temperatures. <i>Journal of Alloys and Compounds</i> , 2008, 450, 79-85.	2.8	10
923	Single-crystal elasticity of diaspore, $AlOOH$, to 12 GPa by Brillouin scattering. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 170, 221-228.	0.7	13
924	Thermal equation of state of magnesite to 32 GPa and 2073 K. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 168, 191-203.	0.7	61
925	Sound velocities and elasticity of DHMS phase A to high pressure and implications for seismic velocities and anisotropy in subducted slabs. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 170, 229-239.	0.7	28
926	Anomalous high-pressure behavior of amorphous selenium from synchrotron x-ray diffraction and microtomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13229-13234.	3.3	50

#	ARTICLE	IF	CITATIONS
927	High-pressure x-ray diffraction and Raman spectra study of indium oxide. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	91
928	FeSi melting curve up to 70 GPa. <i>Earth and Planetary Science Letters</i> , 2008, 265, 743-747.	1.8	26
929	Element partitioning between magnesium silicate perovskite and ferropericlase: New insights into bulk lower-mantle geochemistry. <i>Earth and Planetary Science Letters</i> , 2008, 269, 164-174.	1.8	111
930	Irradiation-induced stabilization of zircon (ZrSiO ₄) at high pressure. <i>Earth and Planetary Science Letters</i> , 2008, 269, 291-295.	1.8	44
931	Fission tracks simulated by swift heavy ions at crustal pressures and temperatures. <i>Earth and Planetary Science Letters</i> , 2008, 274, 355-358.	1.8	40
932	Single-crystal elasticity of iron-bearing majorite to 26 GPa: Implications for seismic velocity structure of the mantle transition zone. <i>Earth and Planetary Science Letters</i> , 2008, 274, 339-345.	1.8	22
933	High-pressure polymorphism of Fe ₂ P and its implications for meteorites and Earth's core. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	56
934	P - V - T equation of state of platinum to 80 GPa and 1900 K from internal resistive heating/x-ray diffraction measurements. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	65
935	High-pressure Raman scattering study on zircon- to scheelite-type structural phase transitions of RCrO ₄ . <i>Journal of Applied Physics</i> , 2008, 103, 093542.	1.1	24
936	Amorphization of faujasite at high pressure: an X-ray diffraction and Raman spectroscopy study. <i>Journal of Materials Chemistry</i> , 2008, 18, 5746.	6.7	37
937	The COMPRES/GSECARS gas-loading system for diamond anvil cells at the Advanced Photon Source. <i>High Pressure Research</i> , 2008, 28, 273-292.	0.4	225
938	Nanodomain fragmentation and local rearrangements in CdSe under pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 19612-19616.	3.3	27
939	High-Pressure Structural and Vibrational Study of PbZr _{0.40} Ti _{0.60} O ₃ . <i>Inorganic Chemistry</i> , 2008, 47, 9898-9904.	1.9	21
940	Phase diagram studies on iron and nickel silicides: high-pressure experiments and ab initio calculations. <i>Journal of Physics: Conference Series</i> , 2008, 121, 022013.	0.3	2
941	The Chemistry of Cyanuric Acid (H ₃ C ₃ N ₃ O ₃) under High Pressure and High Temperature. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2644-2648.	1.2	11
942	Magnetic Properties and Pressure-Induced Ferromagnetism of Cu ₂ (OH) ₃ (CH ₃ COO)·H ₂ O. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19147-19150.	1.5	16
943	Size Dependence of Cubic to Trigonal Structural Distortion in Silver Micro- and Nanocrystals under High Pressure. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20135-20137.	1.5	27
944	Supramolecular Reaction between Pressure-Frozen Acetonitrile Phases I _± and I ₂ . <i>Journal of Physical Chemistry B</i> , 2008, 112, 7183-7190.	1.2	50

#	ARTICLE	IF	CITATIONS
945	Structure Stability and Compressibility of Iron-Based Superconductor Nd(O _{0.88} F _{0.12})FeAs under High Pressure. Journal of the American Chemical Society, 2008, 130, 13828-13829.	6.6	55
946	Pressure-induced structural transformation in solid xenon studied by Raman spectroscopy. Physical Review B, 2008, 77, .	1.1	8
947	Structural Phase Transitions in the Potential Hydrogen Storage Compound KBH ₄ under Compression. Journal of Physical Chemistry C, 2008, 112, 8452-8457.	1.5	34
948	Pressure-induced structural deformation and elastic behavior of wairakite. American Mineralogist, 2008, 93, 53-62.	0.9	24
949	Equations of State and High-Pressure Phases of Explosives. , 2009, , 99-126.		5
950	Speeds of Sound in Fluid Ammonia to 3.8 GPa and 680 K. Journal of Chemical & Engineering Data, 2008, 53, 1986-1987.	1.0	4
951	Coupling of multi-LO phonons to crystal-field excitations in UO ₂ studied by Raman spectroscopy. Journal of Physics Condensed Matter, 2008, 20, 085202.	0.7	30
952	Monoclinic FeO at high pressures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2008, 223, 461-464.	0.4	10
953	High pressure high temperature phase diagram of ammonia. Journal of Chemical Physics, 2008, 128, 154508.	1.2	40
954	Conformational and phase transformations of chlorocyclohexane at high pressures by Raman spectroscopy. Journal of Chemical Physics, 2008, 128, 074501.	1.2	18
955	Raman spectroscopy of CaIrO ₃ postperovskite up to 30 GPa. American Mineralogist, 2008, 93, 1654-1658.	0.9	19
956	Protonation in germanium equivalents of ringwoodite, anhydrous phase B, and superhydrous phase B. American Mineralogist, 2008, 93, 1282-1294.	0.9	12
957	Pressure-induced metallization of silane. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20-23.	3.3	156
958	Novel rhenium gasket design for nuclear resonant inelastic x-ray scattering at high pressure. Review of Scientific Instruments, 2008, 79, 023903.	0.6	1
959	Analytical transmission electron microscopy study of a natural MORB sample assemblage transformed at high pressure and high temperature. American Mineralogist, 2008, 93, 144-153.	0.9	38
960	New boron subnitride B ₁₃ N ₂ : HP-HT synthesis, structure and equation of state. Journal of Physics: Conference Series, 2008, 121, 062001.	0.3	26
961	Pressure-induced over-hydration and water ordering in gismondine: A synchrotron powder diffraction study. American Mineralogist, 2008, 93, 1393-1403.	0.9	32
962	Compression of single-crystal magnesium oxide to 118 GPa and a ruby pressure gauge for helium pressure media. American Mineralogist, 2008, 93, 1823-1828.	0.9	89

#	ARTICLE	IF	CITATIONS
963	Raman spectroscopy study of ammonia borane at high pressure. Journal of Chemical Physics, 2008, 129, 234509.	1.2	68
964	The effect of pressure on the crystal structure of NaV6O11. Journal of Physics Condensed Matter, 2008, 20, 285208.	0.7	4
965	Sound Velocity and Absorption Measurements under High Pressure Using Picosecond Ultrasonics in a Diamond Anvil Cell: Application to the Stability Study of AlPdMn. Physical Review Letters, 2008, 100, 035502.	2.9	55
966	In situ study of amorphization and changes in coordination in Si_2 high pressure. Physical Review B, 2008, 77, .	1.1	13
967	Pressure-induced phase transition in Ho _{0.8} Dy _{0.2} MnO ₃ multiferroic compound. Journal of Applied Physics, 2008, 103, 026102.	1.1	10
968	Anomalous pressure evolution of the axial ratio c/a in hcp cobalt: Interplay between structure, magnetism, and lattice dynamics. Applied Physics Letters, 2008, 92, .	1.5	31
969	Pressure dependence of the optical properties of the charge-density-wave compound $\text{La}_{1-x}\text{Te}_x$. Physical Review B, 2008, 77, .	1.1	14
970	Raman shift of stressed diamond anvils: Pressure calibration and culet geometry dependence. Journal of Applied Physics, 2008, 104, .	1.1	32
971	Compression behavior of WC and WC-6%Co up to 50 GPa determined by synchrotron x-ray diffraction and ultrasonic techniques. Journal of Applied Physics, 2008, 103, .	1.1	27
972	Iron-carbon interactions at high temperatures and pressures. Applied Physics Letters, 2008, 92, .	1.5	32
973	Synchrotron infrared spectroscopy of the pressure-induced insulator-metal transitions in glassy As_2S_3 and As_2S_3 .	1.1	26
974	Evidence for coupling between charge density waves and phonons in two-dimensional rare-earth tritellurides. Physical Review B, 2008, 78, .	1.1	43
975	Electronic phase transition and amorphization in AuIn_2 high pressure. Physical Review B, 2008, 78, .	1.1	11
976	High pressure phase transitions and compressibilities of Er ₂ Zr ₂ O ₇ and Ho ₂ Zr ₂ O ₇ . Applied Physics Letters, 2008, 92, .	1.5	28
977	Pressure-induced valence change in YbAl_3 . A combined high-pressure inelastic x-ray scattering and theoretical investigation. Physical Review B, 2008, 78, .	1.1	27
978	Effect of pressure on the electrical transport and structure of TiOCl . Physical Review B, 2008, 77, .	1.1	16
979	Structural phase transitions of cubic Gd_2 high pressures. Physical Review B, 2008, 78, .	1.1	10
980	High-pressure structural behavior of large-void CoSn-type intermetallics: Experiments and first-principles calculations. Physical Review B, 2008, 77, .	1.1	15

#	ARTICLE	IF	CITATIONS
981	Hugoniot Data for Helium in the Ionization Regime. <i>Physical Review Letters</i> , 2008, 100, 124503.	2.9	103
982	Evidence for a high-density amorphous form in indomethacin from Raman scattering investigations. <i>Physical Review B</i> , 2008, 77, .	1.1	36
983	Mott-Hubbard gap closure and structural phase transition in the oxyhalides TiOBr and TiOCl under pressure. <i>Physical Review B</i> , 2008, 78, .	1.1	22
984	Isothermal equation of state for gold with a He-pressure medium. <i>Physical Review B</i> , 2008, 78, .	1.1	157
985	High-pressure electronic structure and phase transitions in monoclinic InSe: X-ray diffraction, Raman spectroscopy, and density functional theory. <i>Physical Review B</i> , 2008, 77, .	1.1	40
986	Studies on silane to 70 GPa. <i>Journal of Physics: Conference Series</i> , 2008, 121, 042019.	0.3	4
987	<i>In-situ</i> Raman study of the pressure-induced bulk melting of hexagonal ice. <i>Journal of Physics: Conference Series</i> , 2008, 121, 042004.	0.3	1
988	$\hat{\Gamma}$ -boron at very high pressure: structural and vibrational properties. <i>Journal of Physics: Conference Series</i> , 2008, 121, 042017.	0.3	23
989	Pressure Effect on Pr-based Skutterudite Compounds. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 214-215.	0.7	1
990	Solubility of Noble Gas in SiO ₂ Melt under High Pressure. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2008, 18, 44-54.	0.1	0
991	Structural phase transitions of sodium nitride at high pressure. <i>Physical Review B</i> , 2009, 79, .	1.1	30
992	High-pressure phase transformations, pressure-induced amorphization, and polyamorphic transition of the clathrate Rb ₃ Si ₆ Si ₁₄ . <i>Physical Review B</i> , 2009, 79, .	1.1	34
993	Pressure-induced complexation of NH ₃ BH ₃ •H ₂ . <i>Journal of Chemical Physics</i> , 2009, 131, 224515.	1.2	40
994	Pressure dependence of the single particle excitation in the charge-density-wave CeTe. <i>Physical Review B</i> , 2009, 79, .	1.1	13
995	Phase diagrams and isotopic effects of normal and deuterated water studied via x-ray diffraction up to 4.5 GPa and 500 K. <i>Physical Review B</i> , 2009, 80, .	1.1	49
996	An internally heated composite gasket for diamond-anvil cells using the pressure-chamber wall as the heating element. <i>High Pressure Research</i> , 2009, 29, 290-305.	0.4	11
997	Experimental and theoretical investigation of ThGeO ₄ high pressure. <i>Physical Review B</i> , 2009, 80, .	1.1	40
998	Viscosity of carbon dioxide measured to a pressure of 8 GPa and temperature of 673 K. <i>Physical Review E</i> , 2009, 80, 021201.	0.8	47

#	ARTICLE	IF	CITATIONS
999	High-pressure magnetic study of Fe-Ni and Fe-Pt Invar alloys. Physical Review B, 2009, 80, .	1.1	28
1000	High-pressure phase transitions in BiM_2O_8 . Physical Review B, 2009, 80, .	1.1	37
1001	Inelastic x-ray scattering from high pressure fluids in a diamond anvil cell. Applied Physics Letters, 2009, 94, .	1.5	14
1002	Thermal decomposition of ammonia borane at high pressures. Journal of Chemical Physics, 2009, 131, .	1.2	67
1003	Observation of the orthorhombic crystal structure in potassium at high pressure. Physical Review B, 2009, 80, .	1.1	43
1004	Tetrahedrally bonded dense $\text{Ca}_2\text{M}_2\text{O}_8$ a defective wurtzite structure: X-ray diffraction and Raman scattering results at high pressure and ambient conditions. Physical Review B, 2009, 80, .	1.1	38
1005	Pressure-induced quenching of the charge-density-wave state in rare-earth tritellurides observed by x-ray diffraction. Physical Review B, 2009, 79, .	1.1	30
1006	Phase transitions in praseodymium up to 23 GPa: An x-ray powder diffraction study. Physical Review B, 2009, 80, .	1.1	19
1007	Electron density distribution and static dipole moment of KNbO_3 at high pressure. Physical Review B, 2009, 80, .	1.1	26
1008	High-pressure induced phase transitions of Y_2O_3 and $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$. Applied Physics Letters, 2009, 94, .	1.5	74
1009	Filling of the Mott-Hubbard gap in the oxyhalides TiOCl and TiOBr induced by external pressure. High Pressure Research, 2009, 29, 509-513.	0.4	3
1010	High-pressure phase transformation in $\text{LiFeGe}_2\text{O}_6$ pyroxene. American Mineralogist, 2009, 94, 616-621.	0.9	25
1011	The Phase Transition of Eu_2O_3 under High Pressures. Chinese Physics Letters, 2009, 26, 076101.	1.3	28
1012	High-pressure structural behavior of the double perovskite $\text{Sr}_2\text{CrReO}_6$: an experimental and theoretical study. High Pressure Research, 2009, 29, 83-86.	0.4	7
1013	<i>In situ</i> high-pressure study of diborane by infrared spectroscopy. Journal of Chemical Physics, 2009, 131, 174506.	1.2	19
1014	High pressure chemistry in the $\text{H}_2\text{-SiH}_4$ system. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14763-14767.	3.3	64
1015	Elastic behavior and phase stability of pollucite, a potential host for nuclear waste. American Mineralogist, 2009, 94, 1137-1143.	0.9	50
1016	Pressure-dependent phase transition in the ordered $\text{Ba}_{0.7}\text{Nb}_{0.3}\text{O}_3$ perovskite. High Pressure Research, 2009, 29, 272-277.	0.4	2

#	ARTICLE	IF	CITATIONS
1017	The effect of temperature on the hydrostatic limit of 4:1 methanol-ethanol under pressure. High Pressure Research, 2009, 29, 649-652.	0.4	31
1018	Non-hydrostatic compression of zeolite NaA in water medium: connection to anomalous conductivity. Zeitschrift für Kristallographie, 2009, 224, .	1.1	11
1019	Instability of CaLi ₂ at high pressure: Theoretical prediction and experimental results. Europhysics Letters, 2009, 86, 56001.	0.7	13
1020	X-ray diffraction of electrodeposited nanocrystalline nickel under high pressure. Journal of Applied Physics, 2009, 105, 084311.	1.1	6
1021	The crystal structures of $\hat{\Gamma}$ and $\hat{\Gamma}$ [sup $\hat{\epsilon}$ —] nitrogen. Journal of Chemical Physics, 2009, 131, 104511.	1.2	36
1022	Bonding in boranes and their interaction with molecular hydrogen at extreme conditions. Journal of Chemical Physics, 2009, 131, 144508.	1.2	18
1023	X-ray diffraction study of aluminum carbide powder to 50 GPa. Journal of Applied Physics, 2009, 106, 083511.	1.1	6
1024	Pressure-induced phase transformations in cubic Gd ₂ O ₃ . Journal of Applied Physics, 2009, 106, .	1.1	40
1025	High-pressure Brillouin study of the elastic properties of rare-gas solid xenon at pressures up to 45 GPa. Journal of Raman Spectroscopy, 2009, 40, 121-127.	1.2	22
1026	X-ray diffraction study of pure plutonium under pressure. Journal of Nuclear Materials, 2009, 385, 38-41.	1.3	12
1027	Observation of chemical reactions between alkaline-earth oxides and tungsten at high pressure and high temperature. Journal of Physics and Chemistry of Solids, 2009, 70, 1117-1120.	1.9	9
1028	High-Pressure Raman Study on the Decomposition of Polycrystalline Molybdenum Hexacarbonyl. Journal of Inorganic and Organometallic Polymers and Materials, 2009, 19, 415-421.	1.9	7
1029	Elastic behavior of vanadinite, Pb ₁₀ (VO ₄) ₆ Cl ₂ , a microporous non-zeolitic mineral. Physics and Chemistry of Minerals, 2009, 36, 311-317.	0.3	11
1030	Phase relations of iron-silicon alloys at high pressure and high temperature. Physics and Chemistry of Minerals, 2009, 36, 511-518.	0.3	42
1031	Polarized Raman study of self-assembled Ge/Si dots under hydrostatic pressure. Physica Status Solidi (B): Basic Research, 2009, 246, 482-485.	0.7	1
1032	Measurement of phonon pressure coefficients for a precise determination of deformation potentials in SiGe alloys. Physica Status Solidi (B): Basic Research, 2009, 246, 548-552.	0.7	7
1033	Bi ₄ Ge ₃ O ₁₂ at the onset of pressure-induced amorphization. Acta Crystallographica Section C: Crystal Structure Communications, 2009, 65, i63-i65.	0.4	7
1034	High-pressure crystal structure of the non-linear optical compound BiB ₃ O ₆ from two-dimensional powder diffraction data. Acta Crystallographica Section B: Structural Science, 2009, 65, 1-10.	1.8	35

#	ARTICLE	IF	CITATIONS
1035	Effect of pressure on the superionic argyrodite Ag ₇ GeSe ₅ I. Journal of Applied Crystallography, 2009, 42, 93-100.	1.9	2
1036	Direct observation of a pressure-induced metal-to-semiconductor transition in lithium. Nature, 2009, 458, 186-189.	13.7	228
1037	Nanoscale manipulation of the properties of solids at high pressure with relativistic heavy ions. Nature Materials, 2009, 8, 793-797.	13.3	85
1038	Crack Propagation in a Ruby Single Crystal by Femtosecond Laser Irradiation. Journal of the American Ceramic Society, 2009, 92, 3118-3121.	1.9	9
1039	Structural phase transition in induced by swift heavy ion irradiation at high-pressure. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 964-968.	0.6	47
1040	High pressure induced phase transition in sulfur doped indium phosphide: An angular-dispersive X-ray diffraction and Raman study. Solid State Communications, 2009, 149, 136-141.	0.9	17
1041	In situ X-ray observation of phase transitions in under high pressure. Solid State Communications, 2009, 149, 689-692.	0.9	57
1042	Equation of state of orthorhombic boron, -B28. Solid State Communications, 2009, 149, 1356-1358.	0.9	37
1043	On the compressibility of BaFe ₂ As ₂ . Solid State Communications, 2009, 149, 1161-1163.	0.9	14
1044	Formation of transition metal hydrides at high pressures. Solid State Communications, 2009, 149, 1583-1586.	0.9	102
1045	Pressure-induced transformations in crystalline and vitreous. Solid State Communications, 2009, 149, 1940-1943.	0.9	1
1046	High-pressure Raman study on the series. Solid State Communications, 2009, 149, 2050-2052.	0.9	35
1047	300-K equation of state of rhombohedral boron subnitride,. Solid State Communications, 2009, 149, 2169-2171.	0.9	29
1048	Techniques, applications and future prospects of diamond anvil cells for studying supercritical water systems. Journal of Supercritical Fluids, 2009, 47, 431-446.	1.6	54
1049	Molecular association in 2-bromo-2-chloro-1,1,1-trifluoroethane (Halothane). Journal of Fluorine Chemistry, 2009, 130, 248-253.	0.9	16
1050	Crystal structure and compressibility of a high-pressure Ti-rich oxide, (Ti _{0.50} Zr _{0.26} Mg _{0.14} Cr _{0.10})O _{1.81} , isomorphous with cubic zirconia. Journal of Physics and Chemistry of Solids, 2009, 70, 1297-1301.	1.9	1
1051	High-pressure structural behavior and equation of state of NaZnF ₃ . Journal of Solid State Chemistry, 2009, 182, 1545-1549.	1.4	26
1052	Twinned crystal structure and compressibility of TlTeVO ₅ . Journal of Solid State Chemistry, 2009, 182, 1570-1574.	1.4	9

#	ARTICLE	IF	CITATIONS
1053	Disordered pyrochlore CsMgInF ₆ at high pressures. Journal of Solid State Chemistry, 2009, 182, 1792-1797.	1.4	11
1054	High pressure induced coordination evolution in chain compound Li ₂ CuO ₂ . Journal of Solid State Chemistry, 2009, 182, 3085-3090.	1.4	6
1055	X-ray diffraction study of the evolution of Fe-filled multiwalled carbon nanotubes under pressure. European Physical Journal B, 2009, 72, 145-151.	0.6	3
1056	Possible metallization of the Mott insulators TiOCl and TiOBr: Effects of doping and external pressure. European Physical Journal: Special Topics, 2009, 180, 29-42.	1.2	5
1057	Structural Properties of Multiferroic BiFeO ₃ under Hydrostatic Pressure. Chemistry of Materials, 2009, 21, 3400-3405.	3.2	66
1058	High-pressure structural investigation of several zircon-type orthovanadates. Physical Review B, 2009, 79, .	1.1	90
1059	Size-Dependent Structural Stability and Tuning Mechanism: A Case of Zinc Sulfide. Journal of Physical Chemistry C, 2009, 113, 4286-4295.	1.5	33
1060	Peculiar High-Pressure Behavior of BiMnO ₃ . Inorganic Chemistry, 2009, 48, 1000-1004.	1.9	48
1061	Structural Phase Transitions of Mg(BH ₄) ₂ under Pressure. Journal of Physical Chemistry C, 2009, 113, 486-492.	1.5	41
1062	High-Pressure Raman Spectroscopy of Molecular Monolayers Adsorbed on a Metal Surface. Journal of Physical Chemistry C, 2009, 113, 5751-5757.	1.5	21
1063	Pressure-Induced Transformations in Diborane: A Raman Spectroscopic Study. Journal of Physical Chemistry B, 2009, 113, 13509-13515.	1.2	22
1064	Iron oxidation state of FeTiO_3 at high pressure. Physical Review B, 2009, 79, .		
1065	Pressure-Induced Structural Transitions in M ₂ O ₃ ·xH ₂ O ($x = 1/2, 2$) Molybdenum Trioxide Hydrates: A Raman Study. Journal of Physical Chemistry B, 2009, 113, 16479-16482.	1.2	10
1066	Compression and Probing C-H...I Hydrogen Bonds of Iodoform under High Pressure by X-ray Diffraction and Raman Scattering. Journal of Physical Chemistry B, 2009, 113, 7430-7434.	1.2	13
1067	Stability of Hydrogen-Bonded Supramolecular Architecture under High Pressure Conditions: Pressure-Induced Amorphization in Melamine-Boric Acid Adduct. Langmuir, 2009, 25, 4787-4791.	1.6	54
1068	Hydrostatic limits of 11 pressure transmitting media. Journal Physics D: Applied Physics, 2009, 42, 075413.	1.3	1,015
1069	Structural Phase Transformations of Mg ₃ N ₂ at High Pressure: Experimental and Theoretical Studies. Inorganic Chemistry, 2009, 48, 9737-9741.	1.9	23
1070	Melting in the Fe-C system to 70 GPa. Earth and Planetary Science Letters, 2009, 284, 157-167.	1.8	216

#	ARTICLE	IF	CITATIONS
1071	Compositional dependence of structural transition pressures in amorphous phases with mantle-related compositions. <i>Earth and Planetary Science Letters</i> , 2009, 283, 174-180.	1.8	32
1072	Pressure-induced structural phase transition in the Bechgaard-Fabre salts. <i>Synthetic Metals</i> , 2009, 159, 2097-2100.	2.1	8
1073	Thermal equation of state of CaFe ₂ O ₄ -type MgAl ₂ O ₄ . <i>Physics of the Earth and Planetary Interiors</i> , 2009, 174, 78-85.	0.7	17
1074	Stability of the perovskite structure and possibility of the transition to the post-perovskite structure in CaSiO ₃ , FeSiO ₃ , MnSiO ₃ and CoSiO ₃ . <i>Physics of the Earth and Planetary Interiors</i> , 2009, 177, 147-151.	0.7	29
1075	High-pressure structures and vibrational spectra of barium fluoride: Results obtained under nearly hydrostatic conditions. <i>Physical Review B</i> , 2009, 79, .	1.1	13
1076	Inclusion Properties, Polymorphism and Desolvation Kinetics in a New 2-Pyridyl Iminophenol Compound with 1D Nanochannels. <i>Crystal Growth and Design</i> , 2009, 9, 3749-3758.	1.4	14
1077	Pressure-induced disorder in Rb ₂ ZnCl ₄ . <i>Journal of Physics Condensed Matter</i> , 2009, 21, 405405.	0.7	9
1078	Single-Crystal Structural Characterization of the Metallic Phase of Oxygen. <i>Physical Review Letters</i> , 2009, 102, 255503.	2.9	92
1079	Hydrostaticity of Pressure Media in Diamond Anvil Cells. <i>Chinese Physics Letters</i> , 2009, 26, 096202.	1.3	22
1080	Spin and valence states of iron in (Mg _{0.8} Fe _{0.2})SiO ₃ perovskite. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	33
1081	A new high-pressure polymorph of Ti ₂ O ₃ : implication for high-pressure phase transition in sesquioxides. <i>High Pressure Research</i> , 2009, 29, 379-388.	0.4	33
1082	High-pressure Raman and x-ray diffraction studies on LaB_6 . <i>Physical Review B</i> , 2009, 80, .	1.1	16
1083	High-pressure phase transitions of ScPO and YPO. <i>Physical Review B</i> , 2009, 80, .	1.1	51
1084	Physical and chemical transformations of sodium cyanide at high pressures. <i>Journal of Chemical Physics</i> , 2009, 131, 144507.	1.2	18
1085	High-pressure Raman scattering and x-ray diffraction of phase transitions in MoO ₃ . <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	68
1086	Infrared studies of magnetite under high pressure. <i>High Pressure Research</i> , 2009, 29, 500-503.	0.4	6
1087	Weak intermolecular interactions and molecular aggregation in isostructural dihaloperfluoroethanes. <i>CrystEngComm</i> , 2009, 11, 1073.	1.3	21
1088	Pressure-Induced Phase Transition in Hydrogen-Bonded Supramolecular Adduct Formed by Cyanuric Acid and Melamine. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14719-14724.	1.2	52

#	ARTICLE	IF	CITATIONS
1089	Unusual Compression Behavior of Anatase TiO_2 Nanocrystals. Physical Review Letters, 2009, 103, 075505.	2.9	63
1090	On the compressibility of ferrite spinels: a high-pressure X-ray diffraction study of MFe_2O_4 ($\text{M} = \text{Mg, Co, Zn}$). High Pressure Research, 2009, 29, 764-779.	0.4	21
1091	High-Pressure Structural Transitions of Sc_2O_3 by X-ray Diffraction, Raman Spectra, and Ab Initio Calculations. Inorganic Chemistry, 2009, 48, 8251-8256.	1.9	49
1092	Ultrahigh-pressure scales for gold and platinum at pressures up to 550 GPa. Physical Review B, 2009, 80, .	1.1	106
1093	The temperature-pressure-volume equation of state of platinum. Journal of Applied Physics, 2009, 105, .	1.1	59
1094	X-ray diffraction measurements of Mo melting to 119 GPa and the high pressure phase diagram. Journal of Chemical Physics, 2009, 130, 124509.	1.2	77
1095	Post-spinel transformations and equation of state in ZnGa_2 . Determination at high pressure by <i>in situ</i> x-ray diffraction. Physical Review B, 2009, 79, .	1.1	77
1096	Short-range order and Fe clustering in $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ at high pressure. Physical Review B, 2009, 80, .	1.1	14
1097	Structural transitions and electron transfer in coffinite, USiO_4 , at high pressure. American Mineralogist, 2009, 94, 916-920.	0.9	25
1098	Coupled boron and hydrogen incorporation in coesite. European Journal of Mineralogy, 2009, 21, 9-16.	0.4	10
1099	Structural study of FeP_2 at high pressure. High Pressure Research, 2009, 29, 235-244.	0.4	15
1100	Infrared studies under pressure at the infrared beamline SISSI at ELETTRA. High Pressure Research, 2009, 29, 639-643.	0.4	2
1101	Compression of a crystalline ZnO nanotube: An experimental exploration of the B4 to B1 transition mechanism. Journal of Applied Physics, 2009, 105, 104317.	1.1	15
1102	X-ray diffraction of $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ and ZnO nanocrystals under high pressure. Journal of Applied Physics, 2009, 106, 013511.	1.1	16
1103	The bulk modulus of cubic spinel selenides: an experimental and theoretical study. High Pressure Research, 2009, 29, 72-75.	0.4	8
1104	Raman Investigation of BaWO_4 -II Phase under Hydrostatic Pressures up to 14.8 GPa. Chinese Physics Letters, 2009, 26, 046301.	1.3	4
1105	Halogen \cdot oxygen aggregation and disorder modes in pressure frozen XCF ₂ CF ₂ X (X = Br, I) complexes. CrystEngComm, 2009, 11, 1240.	1.3	17
1106	A Brief Overview of the Effect of High Pressures on the Vibrational Spectra of Biomaterials. Applied Spectroscopy Reviews, 2009, 44, 552-567.	3.4	9

#	ARTICLE	IF	CITATIONS
1107	Low-temperature neutron single-crystal diffraction studies of samples grown at high pressure. High Pressure Research, 2009, 29, 644-648.	0.4	12
1108	High-pressure crystallography of rhombohedral PrAlO ₃ perovskite. Journal of Physics Condensed Matter, 2009, 21, 235403.	0.7	18
1109	High-pressure XRD study of $\hat{\Gamma}^2$ -Na _{0.33} V ₂ O ₅ . High Pressure Research, 2009, 29, 504-508.	0.4	6
1110	Structural phase transitions in RbBH ₄ under compression. Journal of Alloys and Compounds, 2009, 476, 5-8.	2.8	16
1111	Unified analyses for $\langle i \rangle P \langle /i \rangle \hat{\epsilon} \langle i \rangle V \langle /i \rangle \hat{\epsilon} \langle i \rangle T \langle /i \rangle$ equation of state of MgO: A solution for pressure $\hat{\epsilon}$ scale problems in high $\langle i \rangle P \langle /i \rangle \hat{\epsilon} \langle i \rangle T \langle /i \rangle$ experiments. Journal of Geophysical Research, 2009, 114, .	3.3	152
1112	Structure and behavior of the barringerite Ni end $\hat{\epsilon}$ member, Ni ₂ P, at deep Earth conditions and implications for natural Fe $\hat{\epsilon}$ Ni phosphides in planetary cores. Journal of Geophysical Research, 2009, 114, .	3.3	17
1113	Nanocrystalline tungsten carbide: As incompressible as diamond. Applied Physics Letters, 2009, 95, .	1.5	41
1114	H-Bond Breaking in High-Pressure Urea. Journal of Physical Chemistry C, 2009, 113, 15761-15767.	1.5	72
1115	In situ high-pressure study of ammonia borane by Raman and IR spectroscopy. Canadian Journal of Chemistry, 2009, 87, 1235-1247.	0.6	59
1116	A high pressure x-ray diffraction study of titanium disulfide. Journal of Physics Condensed Matter, 2009, 21, 025403.	0.7	17
1117	Pathways to metallic hydrogen. Low Temperature Physics, 2009, 35, 318-325.	0.2	8
1118	Observation of charge ordering state in LiV ₂ O ₄ investigated by optical study. Journal of Physics: Conference Series, 2009, 150, 042070.	0.3	1
1119	Raman study of carbon nano-structured materials pressurized with H ₂ . Journal of Physics: Conference Series, 2010, 215, 012046.	0.3	0
1120	The equation of state of B2-type NaCl. Journal of Physics: Conference Series, 2010, 215, 012196.	0.3	15
1121	Effect of pressure on the coordination structure of acetate-rare earth complex in water. Journal of Physics: Conference Series, 2010, 215, 012072.	0.3	2
1122	Powder x-ray diffraction study of Ne up to 240 GPa. Journal of Physics: Conference Series, 2010, 215, 012017.	0.3	15
1123	Modulated structure of $\hat{\Gamma}^2$ -brass CuZn compressed to 90 GPa. Journal of Physics: Conference Series, 2010, 226, 012018.	0.3	0
1124	Compressibility of cubic vanadium mononitride. Europhysics Letters, 2010, 92, 66001.	0.7	14

#	ARTICLE	IF	CITATIONS
1125	Crystal and Electronic Structure of FeSe at High Pressure and Low Temperature. Journal of Physical Chemistry B, 2010, 114, 12597-12606.	1.2	79
1126	High-pressure stability and compressibility of $\text{Ca}_3(\text{PO}_4)_2$. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 758-763.	1.1	123
1127	Review High-pressure melting of wustite. American Mineralogist, 2010, 95, 1473-1477.	0.9	56
1128	Compressibility of synthetic glaucophane. Physics and Chemistry of Minerals, 2010, 37, 219-226.	0.3	9
1129	Compressibility of nanocrystalline forsterite. Physics and Chemistry of Minerals, 2010, 37, 343-351.	0.3	11
1130	Ion tracks in apatite at high pressures: the effect of crystallographic track orientation on the elastic properties of fluorapatite under hydrostatic compression. Physics and Chemistry of Minerals, 2010, 37, 371-387.	0.3	14
1131	Isothermal compression behavior of (Mg,Fe)O using neon as a pressure medium. Physics and Chemistry of Minerals, 2010, 37, 465-474.	0.3	28
1132	In situ Raman spectroscopy on kerogen at high temperatures and high pressures. Physics and Chemistry of Minerals, 2010, 37, 593-600.	0.3	22
1133	X-ray diffraction study of γ -stabilized plutonium alloys under pressure. Journal of Nuclear Materials, 2010, 397, 74-79.	1.3	8
1134	Structural, electronic, elastic and thermal properties of Mg ₂ Si. Journal of Physics and Chemistry of Solids, 2010, 71, 758-763.	1.9	51
1135	Structural Phase Transitions and Thermoelectric Properties of AgPb ₁₈ SbTe ₂₀ Under Compression. Journal of Electronic Materials, 2010, 39, 1828-1831.	1.0	8
1136	New high-pressure phase of HfTiO ₄ and ZrTiO ₄ ceramics. Materials Research Bulletin, 2010, 45, 1732-1735.	2.7	28
1137	Nanoscale twinning-induced elastic strengthening in silicon carbide nanowires. Scripta Materialia, 2010, 63, 981-984.	2.6	33
1138	High-pressure Raman spectra of tuite, $\text{Ca}_3(\text{PO}_4)_2$. Journal of Raman Spectroscopy, 2010, 41, 1011-1013.	1.2	26
1139	Submicron rectangular hollow tube crystals of rutile-type GeO ₂ . Journal of Crystal Growth, 2010, 312, 1731-1735.	0.7	9
1140	A high-pressure cubic-to-tetragonal phase-transition in melanophlogite, a SiO ₂ clathrate phase. Microporous and Mesoporous Materials, 2010, 129, 267-273.	2.2	11
1141	Pressure-induced transition in Ti ₂ MoO ₄ . Journal of Solid State Chemistry, 2010, 183, 2558-2564.	1.4	7
1142	High pressure equation of state studies using methanol-ethanol-water and argon as pressure media. Journal of Physics and Chemistry of Solids, 2010, 71, 1059-1064.	1.9	8

#	ARTICLE	IF	CITATIONS
1143	The Raman spectroscopic studies of aligned MWCNTs treated under high pressure and high temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1150-1153.	1.9	7
1144	Pressure induced phase transition of nanocrystalline and bulk maghemite (Fe_3O_4) to hematite (Fe_2O_3). <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1183-1186.	1.9	22
1145	High pressure X-ray diffraction study of ReS_2 . <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1571-1575.	1.9	21
1146	In situ X-ray study of ammonia borane at high pressures. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 11064-11070.	3.8	34
1147	Compressibility of microporous materials with CHA topology: 1. Natural chabazite and SAPO-34. <i>Microporous and Mesoporous Materials</i> , 2010, 127, 219-227.	2.2	33
1148	Review of $\text{A}_2\text{B}_2\text{O}_7$ pyrochlore response to irradiation and pressure. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 2951-2959.	0.6	202
1149	Isothermal compressibility and anisotropic structural response of under pressure. <i>Solid State Communications</i> , 2010, 150, 201-204.	0.9	4
1150	X-ray diffraction study of $\text{-Ca}_3(\text{PO}_4)_2$ at high pressure. <i>Solid State Communications</i> , 2010, 150, 443-445.	0.9	15
1151	Ultrastable structure and luminescence properties of Y_2O_3 nanotubes. <i>Solid State Communications</i> , 2010, 150, 1208-1212.	0.9	27
1152	Phase transitions in under high pressure. <i>Solid State Communications</i> , 2010, 150, 1564-1569.	0.9	22
1153	Structural phase transition of Cu_3N under high pressure. <i>Solid State Communications</i> , 2010, 150, 1521-1524.	0.9	22
1154	Study of monazite under high pressure. <i>Solid State Communications</i> , 2010, 150, 1845-1850.	0.9	33
1155	An in situ high pressure-high temperature powder diffraction study of the formation of a precursor phase of bismuth manganite. <i>Ceramics International</i> , 2010, 36, 2315-2321.	2.3	2
1156	Effects of deviatoric stresses in the diamond-anvil pressure cell on single-crystal samples. <i>Journal of Applied Crystallography</i> , 2010, 43, 743-751.	1.9	27
1157	Crystal structure and stability of Tl_2CO_3 at high pressures. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, i37-i38.	0.4	9
1158	$(\text{NH}_4)_2\text{WTe}_2\text{O}_8$ at 5.09 GPa: a single-crystal study using synchrotron radiation. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2010, 66, i79-i81.	0.4	1
1159	Persistence of the stereochemical activity of the Bi^{3+} lone electron pair in $\text{Bi}_2\text{Ga}_4\text{O}_9$ up to 50 GPa and crystal structure of the high-pressure phase. <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 323-337.	1.8	27
1160	The High Pressure Characterization of Energetic Materials: Diaminotetrazolium Nitrate (HDAT_3). <i>Propellants, Explosives, Pyrotechnics</i> , 2010, 35, 24-30.	1.0	5

#	ARTICLE	IF	CITATIONS
1161	The High-Pressure Characterization of Energetic Materials: 1-Methyl-5-Nitramino-1H-Tetrazole. Propellants, Explosives, Pyrotechnics, 2010, 35, 373-378.	1.0	14
1162	Investigation of the Jahn-Teller effect in the C_{60}^{\ominus} monoanion under high pressure. Physica Status Solidi (B): Basic Research, 2010, 247, 3047-3050.	0.7	1
1163	Scale-Free Unified Analyses to Determine Primary P-V-T Equations of State of Materials. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 210-220.	0.1	2
1164	Pressure-induced transformations in kaolinite. American Mineralogist, 2010, 95, 651-654.	0.9	25
1165	Magnetic State in Iron Hydride Under Pressure Studied by X-ray Magnetic Circular Dichroism at the FeK-edge. Materials Research Society Symposia Proceedings, 2010, 1262, 1.	0.1	4
1166	Pressure effect on the crystal lattice of unconventional superconductor UCoGe. Journal of Physics Condensed Matter, 2010, 22, 275603.	0.7	13
1167	Density and seismic velocities of chromitite body in oceanic mantle peridotite. American Mineralogist, 2010, 95, 1422-1428.	0.9	5
1168	Structural consideration of phase transitions in $\text{Zn}(\text{OH})_2$ under high pressure. Journal of Physics: Conference Series, 2010, 215, 012001.	0.3	5
1169	Elastic behavior of zeolite boggsite in silicon oil and aqueous medium: A case of high-pressure-induced over-hydration. American Mineralogist, 2010, 95, 1247-1256.	0.9	24
1170	Comparing ruby fluorescence spectra at high pressure in between methanol-ethanol pressure transmitting medium and its deuteride. Journal of Physics: Conference Series, 2010, 215, 012177.	0.3	4
1171	<i>In situ</i> high-pressure study of LiNbO_3 -type FeTiO_3 : X-ray diffraction and Mössbauer spectroscopy. High Pressure Research, 2010, 30, 395-405.	0.4	20
1172	Vibrational properties of Re_3N from experiment and theory. Physical Review B, 2010, 82, .	1.1	24
1173	Experimental and theoretical investigation of the stability of the monoclinic BaWO_4 phase at high pressure and high temperature. Physical Review B, 2010, 81, .	1.1	19
1174	In situ temperature measurements through anvils in diamond anvil cells. Review of Scientific Instruments, 2010, 81, 023902.	0.6	5
1175	Postcotunnite phase of the intermetallic compound AuIn_2 at high pressure. Physical Review B, 2010, 82, .	1.1	4
1176	Equation of state, phase stability, and amorphization of SnI_2 at high pressure and temperature. Physical Review B, 2010, 81, .	1.1	12
1177	Phase relations and hardness trends of ZrO_2 phases at high pressure. Physical Review B, 2010, 81, .	1.1	61
1178	Oxygen/noble gas binary phase diagrams at 296 K and high pressures. Physical Review B, 2010, 82, .	1.1	26

#	ARTICLE	IF	CITATIONS
1179	Invited Article: High-pressure techniques for condensed matter physics at low temperature. Review of Scientific Instruments, 2010, 81, 041301.	0.6	43
1180	Fundamental High-Pressure Calibration from All-Electron Quantum Monte-Carlo Calculations. Physical Review Letters, 2010, 104, 185702.	2.9	36
1181	High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO ₄ . Journal of Applied Physics, 2010, 108, 073518.	1.1	29
1182	Equation of state, stability, anisotropy and nonlinear elasticity of diamond-cubic (ZB) silicon by phonon imaging at high pressure. Physical Review B, 2010, 82, .	1.1	31
1183	Raman scattering evidence for a cascade evolution of the charge-density-wave collective amplitude mode. Physical Review B, 2010, 81, .	1.1	42
1184	A perforated diamond anvil cell for high-energy x-ray diffraction of liquids and amorphous solids at high pressure. Review of Scientific Instruments, 2010, 81, 035110.	0.6	32
1185	Infrared spectroscopic studies on unoriented single-walled carbon nanotube films under hydrostatic pressure. Physical Review B, 2010, 81, .	1.1	27
1186	Pressure dependence of the electronic structure of a [311] piezoelectric $Ga_{0.85}Mn_{0.15}O_3$. Physical Review B, 2010, 82, .	1.1	1
1187	Geometrical frustration versus magnetic order in the heavy-fermion antiferromagnet YbAgGe under high pressure. Physical Review B, 2010, 81, .	1.1	20
1188	Influence of radiation damage on ruby as a pressure gauge. Physical Review B, 2010, 82, .	1.1	5
1189	Origin of Pressure-Induced Polyamorphism in $Ce_{75}Al_{25}$ Glass. Physical Review Letters, 2010, 104, 105702.	2.9	131
1190	High-pressure EXAFS study of vitreous GeO_2 to 44 GPa. Physical Review B, 2010, 81, .	2.9	131
1191	Large volume collapse observed in the phase transition in cubic PbCrO ₃ perovskite. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14026-14029.	3.3	68
1192	High-pressure phase transitions and compressibility of wolframite-type tungstates. Journal of Applied Physics, 2010, 107, .	1.1	66
1193	Crystal structure of hydrous wadsleyite with 2.8% H ₂ O and compressibility to 60 GPa. American Mineralogist, 2010, 95, 1765-1772.	0.9	29
1194	Structural stability of multiferroic BiFeO ₃ . High Pressure Research, 2010, 30, 265-272.	0.4	17
1195	The effect of oxo-component on the high-pressure behavior of amphiboles. American Mineralogist, 2010, 95, 1042-1051.	0.9	15
1196	Volume behavior of the 10 A phase at high pressures and temperatures, with implications for H ₂ O content. American Mineralogist, 2010, 95, 1671-1678.	0.9	9

#	ARTICLE	IF	CITATIONS
1197	Location and quantification of hydroxyl in wadsleyite: New insights. <i>American Mineralogist</i> , 2010, 95, 312-322.	0.9	40
1198	Optical study on strongly correlated electron system LiV_2O_4 . <i>Journal of Physics: Conference Series</i> , 2010, 200, 012068.	0.3	2
1199	The distorted close-packed crystal structure of methane A. <i>Journal of Chemical Physics</i> , 2010, 133, 064504.	1.2	36
1200	Equation of state and anharmonicity of carbon dioxide phase I up to 12 GPa and 800 K. <i>Journal of Chemical Physics</i> , 2010, 133, 144501.	1.2	24
1201	Vibrational dynamics, intermolecular interactions, and compound formation in $\text{GeH}_4\text{-H}_2$ under pressure. <i>Journal of Chemical Physics</i> , 2010, 133, 164512.	1.2	36
1202	Pressure-induced competition between superconductivity and Kondo effect in CeFeAsO_{1-x} ($x=0.16$ and 0.3). <i>Europhysics Letters</i> , 2010, 91, 57008.	0.7	18
1203	High temperature and high pressure equation of state of gold. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012197.	0.3	29
1204	Compressional behavior of solid NeHe_2 up to 90 GPa. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 095401.	0.7	7
1205	High-pressure behaviours of HoMn_2O_5 and BiMn_2O_5 . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 275401.	0.7	8
1206	Pressure-induced orthorhombic structure of PbS . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 095402.	0.7	29
1207	Deactivation of Pressure-Induced Amorphization in Silicalite SiO_2 by Insertion of Guest Species. <i>Journal of the American Chemical Society</i> , 2010, 132, 8860-8861.	6.6	80
1208	Metal-insulator transition in NiS . <i>Physical Review B</i> , 2010, 81, .		
1209	Inelastic X-ray scattering experiments on B_4C under high static pressures. <i>Diamond and Related Materials</i> , 2010, 19, 530-532.	1.8	16
1210	Pressure-induced phase transition in BaCrO_4 . <i>Physical Review B</i> , 2010, 81, .	1.1	11
1211	Compression mechanism of GaF_3 and FeF_3 : a high-pressure X-ray diffraction study. <i>High Pressure Research</i> , 2010, 30, 634-642.	0.4	11
1212	Structural compression and vibrational properties of $\text{Bi}_{12}\text{Si}_{20}$ sillenite from experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 505401.	0.7	33
1213	Elasticity, strength, and refractive index of argon at high pressures. <i>Physical Review B</i> , 2010, 81, .	1.1	28
1214	Temperature- and pressure-dependent lattice behaviour of $\text{RbFe}(\text{MoO}_4)_2$. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 055406.	0.7	17

#	ARTICLE	IF	CITATIONS
1215	Pressure-Induced Spin-State Transition in BiCoO_3 . Journal of the American Chemical Society, 2010, 132, 9438-9443.	6.6	161
1216	High-pressure structural study of fluoro-perovskite CsCdF_3 to 60 GPa: A combined experimental and theoretical study. Physical Review B, 2010, 81, .	1.1	46
1217	On the assessment of hydroxyapatite fluoridation by means of Raman scattering. Journal of Chemical Physics, 2010, 132, 244501.	1.2	33
1218	Structure transition of multiferroic hexagonal TmMnO_3 compound under high pressure. High Pressure Research, 2010, 30, 258-264.	0.4	11
1219	High-pressure vibrational properties of polyethylene. Journal of Chemical Physics, 2010, 133, 204502.	1.2	24
1220	High-pressure x-ray diffraction and crystallographic study of Ni_2Pd . Physical Review B, 2010, 82, .	1.1	91
1221	Reduction of the transverse effective charge of optical phonons in ZnO under pressure. Applied Physics Letters, 2010, 96, .	1.5	43
1222	The FeSi phase diagram to 150 GPa. Journal of Geophysical Research, 2010, 115, .	3.3	41
1223	Pressure-Induced Disorder and Anomalous Lattice Expansion in La_2O_7 Pyrochlore. Physical Review Letters, 2010, 105, 015503.	2.9	100
1224	Space Efficient Opposed-Anvil High-Pressure Cell and Its Application to Optical and NMR Measurements up to 9 GPa. Journal of the Physical Society of Japan, 2010, 79, 024001.	0.7	58
1225	Deconfinement transition and dimensional crossover in the Bechgaard-Fabre salts: Pressure- and temperature-dependent optical investigations. Physical Review B, 2010, 81, .	1.1	35
1226	Effect of iron on the compressibility of hydrous ringwoodite. American Mineralogist, 2010, 95, 747-753.	0.9	12
1227	High-Pressure Structures and Transformations of Calcium Borohydride Probed by Combined Raman and Infrared Spectroscopies. Journal of Physical Chemistry C, 2010, 114, 11635-11642.	1.5	17
1228	Equation of State of Tantalum up to 133 GPa. Chinese Physics Letters, 2010, 27, 016402.	1.3	8
1229	Pressure-volume-temperature equation of state of tungsten carbide to 32 GPa and 1673 K. Journal of Applied Physics, 2010, 108, .	1.1	48
1230	Bond length compressibility in hard ReB_2 investigated by x-ray absorption under high pressure. Journal of Physics Condensed Matter, 2010, 22, 045701.	0.7	15
1231	Ten Polymorphs of NH_4^+N^- Hydrogen-Bonded 1,4-Diazabicyclo[2.2.2]octane Complexes: Supramolecular Origin of Giant Anisotropic Dielectric Response in Polymorph V. Crystal Growth and Design, 2010, 10, 3537-3546.	1.4	45
1232	Nanostructured Gold Architectures Formed through High Pressure-Driven Sintering of Spherical Nanoparticle Arrays. Journal of the American Chemical Society, 2010, 132, 12826-12828.	6.6	93

#	ARTICLE	IF	CITATIONS
1233	Spectroscopic Study of the Effects of Pressure Media on High-Pressure Phase Transitions in Natrolite. Journal of Physical Chemistry C, 2010, 114, 18819-18824.	1.5	10
1234	Pressure-Induced Polymerization of Acrylic Acid: A Raman Spectroscopic Study. Journal of Physical Chemistry B, 2010, 114, 9744-9750.	1.2	88
1235	Increased stability of nanocrystals of Gd ₂ (Ti _{0.65} Zr _{0.35}) ₂ O ₇ pyrochlore at high pressure. Journal of Alloys and Compounds, 2010, 494, 34-39.	2.8	10
1236	Spin state of ferric iron in MgSiO ₃ perovskite and its effect on elastic properties. Earth and Planetary Science Letters, 2010, 289, 68-75.	1.8	129
1237	Elasticity and pressure-induced structural changes in vitreous MgSiO ₃ -enstatite to lower mantle pressures. Earth and Planetary Science Letters, 2010, 295, 523-530.	1.8	62
1238	Effect of H ₂ O on upper mantle phase transitions in MgSiO ₃ : Is the depth of the seismic X-discontinuity an indicator of mantle water content?. Physics of the Earth and Planetary Interiors, 2010, 183, 234-244.	0.7	33
1239	The isothermal equation of state of CaPtO ₃ post-perovskite to 40GPa. Physics of the Earth and Planetary Interiors, 2010, 182, 113-118.	0.7	12
1240	A microscopic view on the Mott transition in chromium-doped V ₂ O ₃ . Nature Communications, 2010, 1, 105.	5.8	129
1241	The effect of Al and water on the compressibility of diopside. American Mineralogist, 2010, 95, 608-616.	0.9	19
1242	Raman and infrared spectroscopy of pyridine under high pressure. Physical Review B, 2010, 82, .	1.1	54
1243	Pressure-induced phase transition in cubic Lu ₂ O ₃ . Journal of Applied Physics, 2010, 108, .	1.1	39
1244	Resonant Raman scattering at exciton states tuned by pressure and temperature in MoS_2 . Physical Review B, 2010, 81, .	1.1	120
1245	Stability of Coronene at High Temperature and Pressure. Journal of Physical Chemistry B, 2010, 114, 15753-15758.	1.2	33
1246	Melting of Sn at high pressure: Comparisons with Pb. Journal of Chemical Physics, 2010, 133, 084501.	1.2	31
1247	Equations of state for Cu, Ag, and Au and problems with shock wave reduced isotherms. High Pressure Research, 2010, 30, 372-394.	0.4	32
1248	<i>Ab initio</i> thermodynamics beyond the quasiharmonic approximation: W as a prototype. Physical Review B, 2010, 81, .	1.1	20
1249	Experimental Determinations of the High-Pressure Crystal Structures of Ca ₃ N ₂ . Journal of Physical Chemistry C, 2010, 114, 16750-16755.	1.5	16
1250	Zircon-monoclinic-scheelite transformation in nanocrystalline chromates. Physical Review B, 2010, 81, .	1.1	5

#	ARTICLE	IF	CITATIONS
1251	Compressibility of cubic white, orthorhombic black, rhombohedral black, and simple cubic black phosphorus. <i>Physical Review B</i> , 2010, 82, .	1.1	36
1252	Diamond as a high pressure gauge up to 2.7 Mbar. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	29
1253	Novel Rhenium Nitrides. <i>Physical Review Letters</i> , 2010, 105, 085504.	2.9	148
1254	Pressure induced transformations of 1,4-diazabicyclo[2.2.2]octane (dabco) hydroiodide: diprotonation of dabco, its N-methylation and co-crystallization with methanol. <i>CrystEngComm</i> , 2010, 12, 2528.	1.3	34
1255	Size-Dependent Amorphization of Nanoscale Y_2O_3 at High Pressure. <i>Physical Review Letters</i> , 2010, 105, 095701.	2.9	100
1256	High-pressure melting curve of helium and neon: Deviations from corresponding states theory. <i>Physical Review B</i> , 2010, 81, .	1.1	39
1257	Structural transformation and vibrational properties of $BaO_{2\frac{1}{2}}$ at high pressures. <i>Physical Review B</i> , 2010, 82, .	1.1	18
1258	Two pressure-induced structural phase transitions in TiOCl. <i>Physical Review B</i> , 2010, 82, .	1.1	5
1259	Valence change of europium in $EuFe_2$ compressed. <i>Physical Review B</i> , 2010, 82, .	1.1	33
1260	Phase diagram up to 105 GPa and mechanical strength of HfO_2 . <i>Physical Review B</i> , 2010, 82, .	1.1	55
1261	Structural stability of an icosahedral Cd-Yb quasicrystal and its crystalline approximant under high pressure. <i>Journal of Physics: Conference Series</i> , 2010, 215, 012019.	0.3	4
1262	Structure-property relations in chloroacetonitriles. <i>CrystEngComm</i> , 2011, 13, 5212.	1.3	6
1263	Raman spectrometry study of phase stability and phonon anharmonicity of Al ₃ BC ₃ at elevated temperatures and high pressures. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	11
1264	Pressure-induced first-order phase transition in (NH ₄) ₂ V ₃ O ₈ fresnoite: a double coordination change for V ₄₊ and V ₅₊ . <i>Dalton Transactions</i> , 2011, 40, 4572.	1.6	16
1265	Disorder in BaThF ₆ refinement of anharmonic displacement parameters from high-pressure single-crystal X-ray diffraction data. <i>Dalton Transactions</i> , 2011, 40, 1902.	1.6	9
1266	Phase transformation of Ho ₂ O ₃ at high pressure. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	36
1267	Effects of High Pressure on Azobenzene and Hydrazobenzene Probed by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14912-14918.	1.2	22
1268	Phase transition and structure of silver azide at high pressure. <i>Journal of Applied Physics</i> , 2011, 110, 023524.	1.1	31

#	ARTICLE	IF	CITATIONS
1269	Rotational Dynamics in C70: Temperature- and Pressure-Dependent Infrared Studies. Journal of Physical Chemistry C, 2011, 115, 3646-3653.	1.5	13
1270	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$: Comparison with isomorphous compounds. Physical Review B, 2011, 83, .	1.1	78
1271	Structural Properties and Halogen Bonds of Cyanuric Chloride under High Pressure. Journal of Physical Chemistry B, 2011, 115, 4639-4644.	1.2	21
1272	Growth and Optical Properties of Rectangular Hollow Tube TiO ₂ Crystals with Rutile-Type Structure. Crystal Growth and Design, 2011, 11, 4427-4432.	1.4	11
1273	Pressure-Induced Collapse in Double-Walled Carbon Nanotubes: Chemical and Mechanical Screening Effects. Journal of Physical Chemistry C, 2011, 115, 5378-5384.	1.5	79
1274	Convergent Raman Features in High Density Amorphous Ice, Ice VII, and Ice VIII under Pressure. Journal of Physical Chemistry B, 2011, 115, 3756-3760.	1.2	42
1275	Reversal of Hallâ€™Petch Effect in Structural Stability of PbTe Nanocrystals and Associated Variation of Phase Transformation. Nano Letters, 2011, 11, 5531-5536.	4.5	39
1276	Perovskite, LiNbO ₃ , Corundum, and Hexagonal Polymorphs of (In $\hat{\text{a}}$ “xMx)MO ₃ . Journal of the American Chemical Society, 2011, 133, 9405-9412.	6.6	44
1277	High-pressure Raman spectra of Sr-substituted $\hat{\text{I}}^3\text{-Ca}_3\hat{\text{a}}^{\sim}\text{xSr}_x(\text{PO}_4)_2$. High Pressure Research, 2011, , 1-7.	0.4	0
1278	Soda-lime silicate glass under hydrostatic pressure and indentation: a micro-Raman study. Journal of Physics Condensed Matter, 2011, 23, 035402.	0.7	74
1279	Rotator Phases of <i>n</i> -Heptane under High Pressure: Raman Scattering and X-ray Diffraction Studies. Journal of Physical Chemistry C, 2011, 115, 18310-18315.	1.5	13
1280	High-pressure study of substrate material ScAlMgO $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2011, 83, .	1.1	23
1281	Series of phase transitions in cesium azide under high pressure studied by <i>in situ</i> x-ray diffraction. Physical Review B, 2011, 84, .	1.1	50
1282	Phase transition and metallization of FeO at high pressures and temperatures. Geophysical Research Letters, 2011, 38, n/a-n/a. Distinct superconducting states in the pressure-induced metallic structures of the nominal semimetal Bi $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Te $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$.	1.5	42
1283	Distinct superconducting states in the pressure-induced metallic structures of the nominal semimetal Bi $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ Te $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$. Physical Review B, 2011, 84, .	1.1	28
1284	High Pressure Synthesis and Preparation of Inorganic Materials. , 2011, , 97-128.		42
1285	High-pressure study of the infrared active modes in wurtzite and rocksalt ZnO. Physical Review B, 2011, 84, .	1.1	12
1286	Substitutional Alloy of Bi and Te at High Pressure. Physical Review Letters, 2011, 106, 145501.	2.9	363

#	ARTICLE	IF	CITATIONS
1287	Structural investigation of LaAlO_3 up to 63 GPa. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 395401.	0.7	12
1288	High-Pressure Crystallography. <i>Topics in Current Chemistry</i> , 2011, 315, 69-109.	4.0	15
1289	Persistence of Jahn-Teller Distortion up to the Insulator to Metal Transition in LaMnO_3 . <i>Physical Review Letters</i> , 2011, 106, 066402.	2.9	77
1290	Synthesis of amorphous MgO-rich peridotitic starting material for laser-heated diamond anvil cell experiments – application to iron partitioning in the mantle. <i>High Pressure Research</i> , 2011, 31, 199-213.	0.4	14
1291	High-pressure Raman spectroscopic studies of ulvospinel Fe_2TiO_4 . <i>American Mineralogist</i> , 2011, 96, 1193-1198.	0.9	16
1292	Phonon behavior of CaSnO_3 perovskite under pressure. <i>Journal of Chemical Physics</i> , 2011, 135, 224507.	1.2	12
1293	Multiple high-pressure phase transitions in BiFeO_3 . <i>Physical Review B</i> , 2011, 84, .	1.1	93
1294	High-pressure EXAFS measurements of crystalline Ge using nanocrystalline diamond anvils. <i>Physical Review B</i> , 2011, 84, .	1.1	28
1295	Helium penetrates into silica glass and reduces its compressibility. <i>Nature Communications</i> , 2011, 2, 345.	5.8	88
1296	Crystal structure of anhydrous 5-aminotetrazole and its high-pressure behavior. <i>CrystEngComm</i> , 2011, 13, 99-102.	1.3	21
1297	In Situ High-Pressure Study of Sodium Amide by Raman and Infrared Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7-13.	1.2	33
1298	Compressibility of $\text{Fe}_{1.087}\text{Te}$: a high pressure X-ray diffraction study. <i>High Pressure Research</i> , 2011, 31, 603-610.	0.4	7
1299	High-pressure phase transitions in BiFeO_3 : hydrostatic versus non-hydrostatic conditions. <i>Phase Transitions</i> , 2011, 84, 474-482.	0.6	29
1300	Low-cost set-up for Fourier-transform infrared spectroscopy in diamond anvil cell from 4000 to 400Åcm^{-1} . <i>High Pressure Research</i> , 2011, 31, 445-453.	0.4	9
1301	Structure, Bonding, and Phase Relations in $\text{Bi}_2\text{Sn}_2\text{O}_7$ and $\text{Bi}_2\text{Ti}_2\text{O}_7$ Pyrochlores: New Insights from High Pressure and High Temperature Studies. <i>Inorganic Chemistry</i> , 2011, 50, 11905-11913.	1.9	32
1302	Compression Behaviors of Binary Skutterudite CoP_3 in Noble Gases up to 40 GPa at Room Temperature. <i>Inorganic Chemistry</i> , 2011, 50, 3281-3285.	1.9	9
1303	Reactions between organic acids and montmorillonite clay under Earth-forming conditions. <i>Chemical Geology</i> , 2011, 283, 171-176.	1.4	10
1304	Investigation into high-pressure behavior of MnTiO_3 : X-ray diffraction and Raman spectroscopy with diamond anvil cells. <i>Geoscience Frontiers</i> , 2011, 2, 107-114.	4.3	26

#	ARTICLE	IF	CITATIONS
1305	X-ray diffraction and Mössbauer spectroscopy study of fcc iron hydride FeH at high pressures and implications for the composition of the Earth's core. Earth and Planetary Science Letters, 2011, 307, 409-414.	1.8	78
1306	Iron-rich perovskite in the Earth's lower mantle. Earth and Planetary Science Letters, 2011, 309, 179-184.	1.8	41
1307	Effects of the Fe ³⁺ spin transition on the properties of aluminous perovskite—New insights for lower-mantle seismic heterogeneities. Earth and Planetary Science Letters, 2011, 310, 293-302.	1.8	84
1308	Plasmons in Sodium under Pressure: Increasing Departure from Nearly Free-Electron Behavior. Physical Review Letters, 2011, 107, 086402.	2.9	21
1309	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. Journal of Applied Physics, 2011, 110, .	1.1	151
1310	High pressure x-ray diffraction measurements on Mg ₂ SiO ₄ glass. Journal of Non-Crystalline Solids, 2011, 357, 2632-2636.	1.5	27
1311	High-pressure structural study of yttrium monochalcogenides from experiment and theory. Physical Review B, 2011, 83, .	1.1	13
1312	In situ high-pressure study of FeP: Implications for planetary cores. Physics of the Earth and Planetary Interiors, 2011, 184, 154-159.	0.7	24
1313	Pressure-Induced Hydration of 1,4-Diazabicyclo[2.2.2]octane Hydroiodide (dabcoHI). Crystal Growth and Design, 2011, 11, 2250-2256.	1.4	26
1314	High-pressure structural evolution of HP-Bi ₂ O ₃	1.1	18
1315	Compressional Behavior of Bulk and Nanorod LiMn ₂ O ₄ under Nonhydrostatic Stress. Journal of Physical Chemistry C, 2011, 115, 9844-9849.	1.5	48
1316	Laboratory set-up for X-ray diffraction at high pressures. High Pressure Research, 2011, 31, 611-619.	0.4	2
1317	Melting curves of argon and methane. High Pressure Research, 2011, 31, 549-554.	0.4	21
1318	Compressional, temporal, and compositional behavior of H ₂ -O ₂ compound formed by high pressure x-ray irradiation. Journal of Chemical Physics, 2011, 134, 234502.	1.2	2
1319	High-pressure behavior of the synthetic Ca ₂ Sb ₂ O ₇ weberite-type compound. Solid State Sciences, 2011, 13, 1092-1095.	1.5	15
1320	Phase transition of cadmium fluoride under high pressure. Solid State Communications, 2011, 151, 1899-1902.	0.9	12
1321	Structural changes of (K,Gd) ₂ Ta ₂ O ₇ pyrochlore at high pressure. Journal of Solid State Chemistry, 2011, 184, 2329-2332.	1.4	3
1322	Structural and electronic evolution of Cr ₂ O ₃ on compression to 55GPa. Journal of Solid State Chemistry, 2011, 184, 3040-3049.	1.4	27

#	ARTICLE	IF	CITATIONS
1323	Raman studies of selenium nanowires under high pressure. <i>Materials Research Bulletin</i> , 2011, 46, 350-354.	2.7	8
1324	Determination of the bulk modulus of hydroxycancrinite, a possible zeolitic precursor in geopolymers, by high-pressure synchrotron X-ray diffraction. <i>Cement and Concrete Composites</i> , 2011, 33, 1014-1019.	4.6	19
1325	Analysis of the Mechanism of Lysozyme Pressure Denaturation from Raman Spectroscopy Investigations, and Comparison with Thermal Denaturation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6740-6748.	1.2	47
1326	Discovery of the recoverable high-pressure iron oxide Fe_4O_5 . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17281-17285.	3.3	120
1327	The effect of crystallite size and stress condition on the equation of state of nanocrystalline MgO. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	14
1328	<i>In situ</i> high-pressure synchrotron x-ray diffraction study of CeVO_4 and TbVO_4 . <i>Physical Review B</i> , 2011, 84, .	1.1	62
1329	Zircon to monazite phase transition in CeVO_4 to 50 GPa. <i>Physical Review B</i> , 2011, 84, .	1.1	83
1330	High-pressure x-ray diffraction study of CdMoO_4 and EuMoO_4 . <i>Journal of Applied Physics</i> , 2011, 109, 043510-043510-5.	1.1	30
1331	Pressure-induced collapse of ferromagnetism in cobalt up to 120 GPa as seen via x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2011, 84, .	1.1	32
1332	High-pressure study of ScVO_4 by Raman scattering and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2011, 83, .	1.1	54
1333	High-pressure study of the behavior of mineral barite by x-ray diffraction. <i>Physical Review B</i> , 2011, 84, .	1.1	71
1334	Pressure effect on crystal structure and superconductivity of $\text{La}_{0.8}\text{Th}_{0.2}\text{FeAsO}$. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 208-210.	1.2	0
1335	High-pressure high-temperature synthesis and structure of MgSi_2 . <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 196-198.	1.2	12
1336	Pressure induced phase transition in $\text{Pb}_6\text{Bi}_2\text{S}_9$. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 1-10.	0.3	16
1337	Elasticity of CaIrO_3 with perovskite and post-perovskite structure. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 21-31.	0.3	12
1338	X-ray diffraction study of arsenopyrite at high pressure. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 95-99.	0.3	4
1339	Phase relations in Fe-Ni-C system at high pressures and temperatures. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 203-214.	0.3	11
1340	Raman study of apatite amorphised with swift heavy ions under various irradiation conditions. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 293-303.	0.3	16

#	ARTICLE	IF	CITATIONS
1341	Behavior of epidote at high pressure and high temperature: a powder diffraction study up to 10 GPa and 1,200 K. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 419-428.	0.3	21
1342	Stability of (Cs, K)Al ₄ Be ₅ B ₁₁ O ₂₈ (londonite) at high pressure and high temperature: a potential neutron absorber material. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 429-434.	0.3	12
1343	New insights into the high-pressure polymorphism of SiO ₂ cristobalite. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 517-529.	0.3	60
1344	Elasticity and equation of state of Li ₂ B ₄ O ₇ . <i>Physics and Chemistry of Minerals</i> , 2011, 38, 561-567.	0.3	15
1345	Raman spectra of bixbyite, Mn ₂ O ₃ , up to 40 GPa. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 685-691.	0.3	31
1346	Hydroxyl stretching in phyllosilicates at high pressures and temperatures: an infrared spectroscopic study. <i>Physics and Chemistry of Minerals</i> , 2011, 38, 753-765.	0.3	13
1347	High pressure X-ray diffraction study on icosahedral boron arsenide (B ₁₂ As ₂). <i>Journal of Physics and Chemistry of Solids</i> , 2011, 72, 144-146.	1.9	17
1348	Elastic behavior of MFI-type zeolites: Compressibility of H-ZSM-5 in penetrating and non-penetrating media. <i>Journal of Solid State Chemistry</i> , 2011, 184, 1505-1516.	1.4	25
1349	A high-pressure single-crystal synchrotron diffraction study of NH ₄ RbTe ₄ O ₉ ·2H ₂ O: stability of three different TeO _x coordination polyhedra. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2011, 67, i45-i49.	0.4	3
1350	Pressure-induced structural transition in CaF ₂ nanocrystals. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1115-1118.	0.7	11
1351	X-ray diffraction of cubic Gd ₂ O ₃ /Er under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1123-1127.	0.7	18
1352	Direct synthesis of sp ³ -hybridized BCN compound by high pressure and temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1132-1134.	0.7	3
1353	High pressure Raman study of LiBC. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1158-1161.	0.7	1
1354	Multiple-Step Phase Transformation in Silver Nanoplates Under High Pressure. <i>Small</i> , 2011, 7, 606-611.	5.2	43
1355	Lattice dynamics of ZnAl ₂ O ₄ and ZnGa ₂ O ₄ under high pressure. <i>Annalen Der Physik</i> , 2011, 523, 157-167.	0.9	47
1356	Does the Al substitution in C ₆ H ₆ change its mechanical property?. <i>Cement and Concrete Research</i> , 2011, 41, 102-106.	4.6	57
1357	Bulk modulus of basic sodalite, Na ₈ [AlSiO ₄] ₆ (OH) ₂ ·2H ₂ O, a possible zeolitic precursor in coal-fly-ash-based geopolymers. <i>Cement and Concrete Research</i> , 2011, 41, 107-112.	4.6	29
1358	Pressure induced reactions amongst calcium aluminate hydrate phases. <i>Cement and Concrete Research</i> , 2011, 41, 571-578.	4.6	37

#	ARTICLE	IF	CITATIONS
1359	Thermoelastic properties of ScB ₂ , TiB ₂ , YB ₄ and HoB ₄ : Experimental and theoretical studies. Acta Materialia, 2011, 59, 4886-4894.	3.8	63
1360	The high-pressure phase relation of the MgSO ₄ •H ₂ O system and its implication for the internal structure of Ganymede. Icarus, 2011, 211, 648-654.	1.1	32
1361	Elastic behavior of MFI-type zeolites: 1-Compressibility of Na-ZSM-5 in penetrating and non-penetrating media. Microporous and Mesoporous Materials, 2011, 142, 696-707.	2.2	24
1362	High pressure X-ray diffraction study of potassium azide. Journal of Physics and Chemistry of Solids, 2011, 72, 736-739.	1.9	53
1363	Pressure-induced development of bonding in NiAs type compounds and polymorphism of NiP. Journal of Solid State Chemistry, 2011, 184, 1997-2003.	1.4	20
1364	High-pressure Raman spectroscopic studies on orthophosphates Ba ₃ (PO ₄) ₂ and Sr ₃ (PO ₄) ₂ . Solid State Communications, 2011, 151, 276-279.	0.9	13
1365	Site dependent hardening of the lanthanum metal lattice by hydrogen absorption. Solid State Communications, 2011, 151, 341-345.	0.9	13
1366	Crossover from itinerant-electron to localized-electron behavior in Sr _{1-x} Ca _x CrO ₃ perovskite solid solution. Journal of Physics Condensed Matter, 2011, 23, 355601.	0.7	10
1367	Thermal conductivity of compressed H ₂ O to 22 GPa: A test of the Leibfried-Schlömann equation. Physical Review B, 2011, 83, .	1.1	68
1368	Compression behavior of densified SiO ₂ glass. Physical Review B, 2011, 84, .	1.1	57
1369	Pressure behavior of the sound velocity of liquid water at room temperature in the terahertz regime. Physical Review B, 2011, 84, .	1.1	6
1370	Structural and Valence Changes of Europium Hydride Induced by Application of High-Pressure Structural and vibrational properties of the van der Waals compounds (N _x) ₂ ETfQq0.0 QegBT/Overlock 10 Tf 50 287 Td (xmln	2.9	34
1371	Properties and phase transitions in YAsO ₄	1.1	15
1372	and YCrO ₄	1.1	43
1373	Pressure induced structural transition and enhancement of superconductivity in Co doped CeFeAsO. Applied Physics Letters, 2011, 98, 012511.	1.5	11
1374	Pressure induced crystallization in amorphous silicon. Journal of Applied Physics, 2011, 109, .	1.1	23
1375	Ruby and Sm:YAG fluorescence pressure gauges up to 120 GPa and 700 K. Journal of Applied Physics, 2011, 110, .	1.1	19
1376	Determining the high-pressure phase transition in highly-ordered pyrolytic graphite with time-dependent electrical resistance measurements. Journal of Applied Physics, 2011, 110, 043725.	1.1	12

#	ARTICLE	IF	CITATIONS
1377	Viscosity of methane to 6 GPa and 673 K. <i>Physical Review E</i> , 2011, 84, 062201.	0.8	12
1378	Thermal conductivity of hcp iron at high pressure and temperature. <i>High Pressure Research</i> , 2011, 31, 228-236.	0.4	26
1379	Interplay between magnetism, structure, and strong electron-phonon coupling in binary FeAs under pressure. <i>Physical Review B</i> , 2011, 83, .	1.1	11
1380	Raman study of phase transitions in compressed methane using moissanite anvil cells. <i>Physical Review B</i> , 2011, 84, .	1.1	19
1381	High-pressure study of silane to 150 GPa. <i>Physical Review B</i> , 2011, 83, .	1.1	53
1382	Multipurpose high-pressure high-temperature diamond-anvil cell with a novel high-precision guiding system and a dual-mode pressurization device. <i>Review of Scientific Instruments</i> , 2011, 82, 095108.	0.6	3
1383	Nanoshells as a high-pressure gauge analyzed to 200 GPa. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	3
1384	Intriguing sequence of CaFeO_3 structures and electronic states to 70 GPa. <i>Physical Review B</i> , 2011, 84, .	1.1	33
1385	Pressure distribution in a quasi-hydrostatic pressure medium: A finite element analysis. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	6
1386	Patterned anvils for high pressure measurements at low temperature. <i>Review of Scientific Instruments</i> , 2011, 82, 033901.	0.6	6
1387	Investigation of phase transition of mercury decomposed from mercury oxide up to 20 GPa. <i>High Pressure Research</i> , 2011, 31, 555-559.	0.4	2
1388	Thermoelastic properties of Zn_3P_2 . <i>High Pressure Research</i> , 2011, 31, 39-42.	0.4	4
1389	High-pressure structural behavior of Fe_2O_3 studied by single-crystal X-ray diffraction and synchrotron radiation up to 25 GPa. <i>American Mineralogist</i> , 2011, 96, 1781-1786.	0.9	19
1390	Structural stability of BaMF_4 (M = Mg, Zn and Mn) at high pressures. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 215401.	0.7	15
1391	High-pressure structural evolution and equation of state of analbite. <i>American Mineralogist</i> , 2011, 96, 383-392.	0.9	14
1392	In situ high-pressure X-ray diffraction experiments and ab initio calculations of Co_2P . <i>Chinese Physics B</i> , 2011, 20, 066101.	0.7	2
1393	<i>In Situ</i> High-Pressure Synchrotron X-Ray Diffraction Study of Clinozoisite. <i>Chinese Physics Letters</i> , 2011, 28, 126103.	1.3	6
1394	High pressure X-ray diffraction study of SrMnO_3 perovskite. <i>Chinese Physics C</i> , 2011, 35, 514-518.	1.5	3

#	ARTICLE	IF	CITATIONS
1395	High-pressure crystal structure of elastically isotropic CaTiO ₃ perovskite under hydrostatic and non-hydrostatic conditions. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 455401.	0.7	12
1396	In-situ mid/far micro-FTIR spectroscopy to trace pressure-induced phase transitions in strontium feldspar and wadsleyite. <i>American Mineralogist</i> , 2011, 96, 1748-1759.	0.9	22
1397	Synthesis of Binary Transition Metal Nitrides, Carbides and Borides from the Elements in the Laser-Heated Diamond Anvil Cell and Their Structure-Property Relations. <i>Materials</i> , 2011, 4, 1648-1692.	1.3	100
1398	Structural behaviour of alkaline sulfides under compression: High-pressure experimental study on Cs ₂ S. <i>Journal of Chemical Physics</i> , 2011, 135, 054511.	1.2	26
1399	Local structure variations observed in orthoenstatite at high pressures. <i>American Mineralogist</i> , 2011, 96, 1585-1592.	0.9	14
1400	New host for carbon in the deep Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5184-5187.	3.3	118
1401	Pressure-induced phase transition(s) in KMnF ₃ and the importance of the excess volume for phase transitions in perovskite structures. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 485901.	0.7	10
1402	Phase stability, elastic behavior, and pressure-induced structural evolution of kalsilite: A ceramic material and high-T/high-P mineral. <i>American Mineralogist</i> , 2011, 96, 1363-1372.	0.9	16
1403	The structural variation of rhombohedral LaAlO ₃ perovskite under non-hydrostatic stress fields in a diamond-anvil cell. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 175901.	0.7	5
1404	Pressure-induced structural phase transition of the iron end-member of ringwoodite (Å-Fe ₂ SiO ₄) investigated by X-ray diffraction and Mossbauer spectroscopy. <i>American Mineralogist</i> , 2011, 96, 833-840.	0.9	12
1405	Amorphization of C ₆₀ nanotubes under pressure. <i>Journal of Applied Physics</i> , 2011, 110, 014301.	1.1	5
1406	A new high-pressure phase transition in natural Fe-bearing orthoenstatite. <i>American Mineralogist</i> , 2012, 97, 1070-1074.	0.9	34
1407	The acoustic velocity, refractive index, and equation of state of liquid ammonia dihydrate under high pressure and high temperature. <i>Journal of Chemical Physics</i> , 2012, 137, 104504.	1.2	6
1408	Raman Spectroscopy at High Pressures. <i>International Journal of Spectroscopy</i> , 2012, 2012, 1-16.	1.4	40
1409	Compressibility of microporous materials with CHA topology: 2. ALPO-34. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2012, 227, 514-521.	0.4	11
1410	Tetragonal almandine pyrope phase (TAPP): retrograde Mg-perovskite from subducted oceanic crust?. <i>European Journal of Mineralogy</i> , 2012, 24, 587-597.	0.4	22
1411	Structural and chemical properties of the nitrogen-rich energetic material triaminoguanidinium 1-methyl-5-nitriminotetrazolate under pressure. <i>Journal of Chemical Physics</i> , 2012, 137, 054501.	1.2	15
1412	Anomalous structural phase transition properties in ReSe ₂ and Au-doped ReSe ₂ . <i>Journal of Chemical Physics</i> , 2012, 137, 024509.	1.2	14

#	ARTICLE	IF	CITATIONS
1413	In situ Raman spectroscopic study of the pressure induced structural changes in ammonia borane. Journal of Chemical Physics, 2012, 137, 074506.	1.2	18
1414	Phase transitions in KIO_3 . Journal of Physics Condensed Matter, 2012, 24, 325401.	0.7	12
1415	The deformation mechanism of a pressure-induced phase transition in dehydrated analcime. Mineralogical Magazine, 2012, 76, 129-142.	0.6	9
1416	Determining the equation of state of amorphous solids at high pressure using optical microscopy. Review of Scientific Instruments, 2012, 83, 033702. Pressure-induced transition from the dynamic to static Jahn-Teller effect in $(\text{Ph})_2\text{TiO}_4$. Physical Review Letters, 2012, 109, 095503.	0.6	12
1417	$\text{Ca}_2\text{Mg}_2\text{Si}_2\text{O}_{10}$. Journal of Applied Physics, 2012, 111, .	1.1	4
1418	New high-pressure phase and equation of state of $\text{Ce}_2\text{Zr}_2\text{O}_8$. Journal of Applied Physics, 2012, 111, .	1.1	23
1419	Pressure effect and Mn doping in Na_xCoO_2 . Journal of Applied Physics, 2012, 112, 053503.	1.1	4
1420	Structural transformation and vibrational properties of BaCO_3 at high pressure. Physical Review B, 2012, 85, .	1.1	25
1421	Pressure-induced phase transition in potassium azide up to 55 GPa. Journal of Applied Physics, 2012, 111, .	1.1	36
1422	Hydrogen-induced modification of the electronic structure and magnetic states in Fe, Co, and Ni monohydrides. Physical Review B, 2012, 86, .	1.1	29
1423	Ruby pressure scale in a low-temperature diamond anvil cell. Journal of Applied Physics, 2012, 112, .	1.1	45
1424	Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the BaFe_2As_2 superconductors. Physical Review B, 2012, 86, .	1.1	6
1425	Stability of Ni sites across the pressure-induced insulator-to-metal transition in YNiO_3 . Physical Review B, 2012, 85, .	1.1	15
1426	Nonmonotonic evolution of the charge gap in ZnVOPO_4 under pressure. Physical Review B, 2012, 86, .	1.1	7
1427	Europium-IV: An Incommensurately Modulated Crystal Structure in the Lanthanides. Physical Review Letters, 2012, 109, 095503.	2.9	19
1428	Perovskite Phase Relations in the System $\text{CaO-MgO-TiO}_2\text{-SiO}_2$ and Implications for Deep Mantle Lithologies. Journal of Petrology, 2012, 53, 611-635.	1.1	28
1429	Pressure tunes electrical resistivity by four orders of magnitude in amorphous Ge_2Sb_5 phase-change memory alloy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1055-62.	3.3	58
1430	High-pressure study of lithium amidoborane using Raman spectroscopy and insight into dihydrogen bonding absence. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19140-19144.	3.3	13

#	ARTICLE	IF	CITATIONS
1431	Second-order P6c2-P31c transition and structural crystallography of the cyclosilicate benitoite, BaTiSi3O9, at high pressure. American Mineralogist, 2012, 97, 1749-1763.	0.9	9
1432	Synchrotron X-ray diffraction study of phenacite at high pressure. Chinese Physics C, 2012, 36, 179-183.	1.5	2
1433	Computer Simulation of the Magnesium Silicide Polymorphs. Applied Mechanics and Materials, 0, 170-173, 3312-3315.	0.2	0
1434	IR beamline at the Swiss Light Source. Journal of Physics: Conference Series, 2012, 359, 012003.	0.3	9
1435	High pressure nano-tomography using an iterative method. Journal of Applied Physics, 2012, 111, 112626.	1.1	22
1436	Deriving equations of state from non-hydrostatic data. Journal of Physics: Conference Series, 2012, 377, 012032.	0.3	6
1437	Pressure Induced Metallization in Zn _{1-x} Be _x Se Ternary Mixed Crystals. Journal of Physics: Conference Series, 2012, 377, 012019.	0.3	0
1438	Phase transition and abnormal compressibility of lanthanide silicate with the apatite structure. Physical Review B, 2012, 85, .	1.1	13
1439	High pressure melting curve of tin measured using an internal resistive heating technique to 45â€‰GPa. Journal of Applied Physics, 2012, 111, .	1.1	29
1440	BX90: A new diamond anvil cell design for X-ray diffraction and optical measurements. Review of Scientific Instruments, 2012, 83, 125102.	0.6	251
1441	Pressure-Driven Quantum Criticality in Iron-Selenide Superconductors. Physical Review Letters, 2012, 108, 197001.	2.9	54
1442	Direct Zircon-to-Scheelite Structural Transformation in YPO ₄ and YPO ₄ :Eu ³⁺ Nanoparticles Under High Pressure. Journal of Physical Chemistry C, 2012, 116, 24837-24844.	1.5	28
1443	Sequential dissociation of insulin amyloids probed by high pressure Fourier transform infrared spectroscopy. Soft Matter, 2012, 8, 11863.	1.2	17
1444	Electronic structure of iron in magnesium silicate glasses at high pressure. Geophysical Research Letters, 2012, 39, .	1.5	14
1445	Ca ₂ SiO ₆ diopside, a new ultrahigh-pressure polymorph of CaMgSi ₂ O ₆ with six-coordinated silicon. Geophysical Research Letters, 2012, 39, .	1.5	22
1446	Pressure dependence of the Verwey transition in magnetite: An infrared spectroscopic point of view. Journal of Applied Physics, 2012, 112, .	1.1	9
1447	Pressure Effect on Intersite Charge Transfer in A-site-Ordered Double-Perovskite-Structure Oxide. Chemistry of Materials, 2012, 24, 2235-2239.	3.2	36
1448	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. Physical Review B, 2012, 85, .	1.1	17

#	ARTICLE	IF	CITATIONS
1449	High-pressure transition to the post-barite phase in BaCrO ₄ hashemite. Physical Review B, 2012, 86, .	1.1	27
1450	Phase transformation in hexagonal ErMnO ₃ under high pressure. Journal of Applied Physics, 2012, 112, 113512.	1.1	13
1451	Hydrogen Bonds and Conformations in Ethylene Glycol under Pressure. Journal of Physical Chemistry B, 2012, 116, 12574-12580.	1.2	53
1452	High-Pressure and High-Temperature <i>in situ</i> X-Ray Diffraction Study of FeP ₂ up to 70 GPa. Chinese Physics Letters, 2012, 29, 026102.	1.3	8
1453	Materials Properties of Ultra-Incompressible Re ₂ P. Chemistry of Materials, 2012, 24, 3240-3246.	3.2	15
1454	Derivation of the isothermal equation of state of carbon monoxide to 50GPa. Chemical Physics Letters, 2012, 546, 86-89.	1.2	0
1455	Compressibility and thermal expansion of hydrous ringwoodite with 2.5(3) wt% H ₂ O. American Mineralogist, 2012, 97, 573-582.	0.9	47
1456	Ammonia molecule rotation of pressure-induced phase transition in ammonia hemihydrates 2NH ₃ ·H ₂ O. RSC Advances, 2012, 2, 4920.	1.7	14
1457	High-Pressure Investigation of Li ₂ MnSiO ₄ and Li ₂ CoSiO ₄ Electrode Materials for Lithium-Ion Batteries. Inorganic Chemistry, 2012, 51, 5779-5786.	1.9	34
1458	Experimental constraints for the structural models of Re ₂ N and Re ₂ C from micro-Raman spectroscopy. Physical Review B, 2012, 86, .	1.1	10
1459	Reverse sequence of transitions in prototypic relaxor 1,4-diazabicyclo[2.2.2]octane. CrystEngComm, 2012, 14, 6428.	1.3	13
1460	High-pressure structural studies of eskolaite by means of single-crystal X-ray diffraction. American Mineralogist, 2012, 97, 1764-1770.	0.9	26
1461	High-pressure diffraction study of zeolites stilbite and stellerite. Journal of Structural Chemistry, 2012, 53, 26-34.	0.3	7
1462	The application of in situ X-ray diffraction for the study of mineral reactions: The formation of lawsonite at 400Å°C and 25 kbar. Journal of Structural Chemistry, 2012, 53, 43-46.	0.3	3
1463	Experimental and Theoretical Studies on a High Pressure Monoclinic Phase of Ammonia Borane. Journal of Physical Chemistry C, 2012, 116, 2172-2178.	1.5	40
1464	High-pressure, high-temperature single-crystal study of Bi-IV. High Pressure Research, 2012, 32, 442-449.	0.4	19
1465	First-order character of the displacive structural transition in BaWO ₄ . Chinese Physics B, 2012, 21, 086201.	0.7	1
1466	Pressure-Induced Spectral Changes of Room-Temperature Ionic Liquid, <i>N,N</i> -Diethyl- <i>N</i> -methyl- <i>N</i> -(2-methoxyethyl)ammonium Bis(trifluoromethylsulfonyl)imide, [DEME][TFSI]. Journal of Physical Chemistry C, 2012, 116, 2097-2101.	1.5	55

#	ARTICLE	IF	CITATIONS
1467	High-Pressure Spectroscopic Study of Hydrous and Anhydrous Cs-Exchanged Natrolites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2159-2164.	1.5	4
1468	Structural properties of PbVO_3 perovskites under hydrostatic pressure conditions up to 10.6 GPa. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 435403.	0.7	16
1469	High-pressure phase transition of $\text{Bi}_2\text{Fe}_4\text{O}_9$. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 145401.	0.7	12
1470	High-pressure behavior of osmium: An analog for iron in Earth's core. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	18
1471	Pressure-induced phase transition study of magnesiochromite (MgCr_2O_4) by Raman spectroscopy and X-ray diffraction. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 196-197, 75-82.	0.7	50
1472	Compressibility anomaly in the superconducting material Nb_3Al under high pressure. <i>Physica B: Condensed Matter</i> , 2012, 407, 3635-3638.	1.3	9
1473	Phase transitions of pure and Ba-doped BiFeO_3 under high pressure. <i>Solid State Communications</i> , 2012, 152, 1613-1617.	0.9	12
1475	High-Pressure Raman and X-ray Diffraction Study of $\hat{\Gamma}^2$ - and $\hat{\Gamma}^3$ -Polymorphs of Aluminum Hydride. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3808-3816.	1.5	14
1476	Extraordinarily complex crystal structure with mesoscopic patterning in barium at high pressure. <i>Nature Materials</i> , 2012, 11, 627-632.	13.3	43
1477	High-pressure study of a natural cancrinite. <i>American Mineralogist</i> , 2012, 97, 872-882.	0.9	19
1478	Raman, FTIR, Photoacoustic-Infrared, and Inelastic Neutron Scattering Spectra of Ternary Metal Hydride Salts A_2MH_5 , (A = Ca, Sr, Eu; M = Ir, Rh) and Their Deuterides. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2490-2496.	1.1	4
1479	Elastic behavior of MFI-type zeolites: 3 $\hat{\Gamma}^2$ Compressibility of silicalite and mutinaite. <i>Journal of Solid State Chemistry</i> , 2012, 191, 201-212.	1.4	19
1480	High pressure structural study of $\hat{\Gamma}^2$ - Ti_3O_5 : X-ray diffraction and Raman spectroscopy. <i>Journal of Solid State Chemistry</i> , 2012, 192, 356-359.	1.4	31
1481	Compressibility and structural stability of CeN from experiment and theory. The $\text{B1} \rightarrow \text{B2}$ transition. <i>Journal of Alloys and Compounds</i> , 2012, 533, 29-32.	2.8	18
1482	Sound velocity measurements in dhcp-FeH up to 70 GPa with inelastic X-ray scattering: Implications for the composition of the Earth's core. <i>Earth and Planetary Science Letters</i> , 2012, 313-314, 79-85.	1.8	71
1483	CaCO_3 -III and CaCO_3 -VI, high-pressure polymorphs of calcite: Possible host structures for carbon in the Earth's mantle. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 265-271.	1.8	91
1484	Compressibility of Nanocrystalline TiO_2 Anatase. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21635-21639.	1.5	37
1485	High pressure transport properties of the topological insulator Bi_2Se_3 . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 035602.	0.7	52

#	ARTICLE	IF	CITATIONS
1486	Pressure effects on the magnetic properties of FeCuZr studied by x-ray magnetic circular dichroism: Evidence of weakening of ferromagnetism in FeCuZr alloys. Applied Physics Letters, 2012, 101, .	1.5	2
1487	Synthesis and Pressure-Induced Reversible Phase Transition of a Crystalline Solid Europium Germanate NaEuGeO ₄ . Chinese Journal of Chemistry, 2012, 30, 2066-2072.	2.6	8
1488	<i>In situ</i> high-pressure synchrotron X-ray diffraction study of the structural stability in the intermetallic compound Mn ₂ Sb. Physica Status Solidi (B): Basic Research, 2012, 249, 2239-2243.	0.7	3
1489	High-pressure optical and vibrational properties of CdGa ₂ Se ₄ : Order-disorder processes in adamantine compounds. Journal of Applied Physics, 2012, 111, .	1.1	46
1490	Pressure effects on grain boundary, electrical and vibrational properties of the polycrystalline BaTeO ₃ . Europhysics Letters, 2012, 98, 66006.	0.7	15
1491	Structural behavior of the acetylide carbides Li ₂ C ₂ and CaC ₂ at high pressure. Journal of Chemical Physics, 2012, 137, 224507.	1.2	31
1492	Compression of Silver Sulfide: X-ray Diffraction Measurements and Total-Energy Calculations. Inorganic Chemistry, 2012, 51, 5289-5298.	1.9	44
1493	Structurally hidden magnetic transitions in Fe ₃ C at high pressures. Physical Review B, 2012, 85, .	1.1	41
1494	Effect of nanostructuring on compressibility of cubic BN. Journal of Superhard Materials, 2012, 34, 336-338.	0.5	6
1495	Crystal structures and stability of NaLnF ₄ (Ln = La, Ce, Pr, Nd, Sm and Gd) studied with synchrotron single-crystal and powder diffraction. Dalton Transactions, 2012, 41, 10258.	1.6	25
1496	Optical reflectivity of solid and liquid methane: Application to spectroscopy of Titan's hydrocarbon lakes. Geophysical Research Letters, 2012, 39, .	1.5	4
1497	Experimental investigation of the stability of Fe-rich carbonates in the lower mantle. Journal of Geophysical Research, 2012, 117, .	3.3	68
1498	Equation of state and phase diagram of Fe- ¹⁶ Si alloy as a candidate component of Earth's core. Earth and Planetary Science Letters, 2012, 357-358, 268-276.	1.8	55
1499	Radiative heat transfer in a hydrous mantle transition zone. Earth and Planetary Science Letters, 2012, 357-358, 130-136.	1.8	25
1500	A re-investigation on pressure-induced phase transition of Mg ₂ Si. Solid State Communications, 2012, 152, 2160-2164.	0.9	14
1501	On the high-pressure behavior of gobbinsite, the natural counterpart of the synthetic zeolite Na-P ₂ . Microporous and Mesoporous Materials, 2012, 163, 259-269.	2.2	14
1502	Phase stability and thermo-elastic behavior of CsAlSiO ₄ (ABW): A potential nuclear waste disposal material. Microporous and Mesoporous Materials, 2012, 163, 147-152.	2.2	16
1503	Synthesis, Crystal Structure, and Elastic Properties of Novel Tungsten Nitrides. Chemistry of Materials, 2012, 24, 3023-3028.	3.2	154

#	ARTICLE	IF	CITATIONS
1504	Remote halogen switch of amine hydrophilicity. CrystEngComm, 2012, 14, 6374.	1.3	12
1505	The phase diagram of ammonium nitrate. Journal of Chemical Physics, 2012, 137, 064504.	1.2	36
1506	Determinations of the high-pressure crystal structures of Sb_2Te_3 . Journal of Physics Condensed Matter, 2012, 24, 475403.	0.7	42
1507	Carbon Disulfide Assisted Polymerization of Benzene. Journal of Physical Chemistry B, 2012, 116, 2414-2419.	1.2	7
1508	Crystal Chemistry of CdIn_2S_4 , MgIn_2S_4 , and MnIn_2S_4 Thiospinels under High Pressure. Journal of Physical Chemistry C, 2012, 116, 14078-14087.	1.5	44
1509	Structural Stability and Compressibility Study for ZnO Nanobelts under High Pressure. Journal of Physical Chemistry C, 2012, 116, 2074-2079.	1.5	23
1510	Effect of high pressure on the crystal structure and electronic properties of magnetite below 25 GPa. American Mineralogist, 2012, 97, 128-133.	0.9	31
1511	Complex high-pressure polymorphism of barium tungstate. Physical Review B, 2012, 86, .	1.1	66
1512	The compressibility of nanocrystalline Pt. Applied Physics Letters, 2012, 101, .	1.5	15
1513	<i>In situ</i> structure characterization of $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - PbTiO_3 crystals under high pressure-temperature. Applied Physics Letters, 2012, 101, 062904.	1.5	8
1514	High pressure X-ray diffraction study on BaWO_4 -II. High Pressure Research, 0, , 1-8.	0.4	3
1515	Pressure Tuning of the Optical Properties of GaAs Nanowires. ACS Nano, 2012, 6, 3284-3291.	7.3	43
1516	A new cubic perovskite in PbGeO_3 at high pressures. American Mineralogist, 2012, 97, 1193-1198.	0.9	11
1517	Pressure-induced hydrogen bond symmetrisation in guyanaite, $\hat{\text{I}}^2$ - CrOOH : evidence from spectroscopy and ab initio simulations. European Journal of Mineralogy, 2012, 24, 839-850.	0.4	14
1518	Pressure-induced phase transitions in ilvaite studied by in situ micro-FTIR spectroscopy. European Journal of Mineralogy, 2012, 24, 831-838.	0.4	7
1519	Electronic phase transitions in cadmium at high pressures. Journal of Physics: Conference Series, 2012, 377, 012033.	0.3	5
1520	Large Volume Collapse during Pressure-Induced Phase Transition in Lithium Amide. Journal of Physical Chemistry C, 2012, 116, 9744-9749.	1.5	32
1521	Interplay between crystal electric field and magnetic exchange anisotropies in the heavy-fermion antiferromagnet YbRhSb under pressure. Physical Review B, 2012, 85, .	1.1	9

#	ARTICLE	IF	CITATIONS
1522	High pressure Raman and x-ray diffraction studies on the decomposition of tungsten carbonyl. Journal of Applied Physics, 2012, 111, 112606.	1.1	3
1523	Bonding and structural changes in siderite at high pressure. American Mineralogist, 2012, 97, 1421-1426.	0.9	45
1524	High-pressure phase transitions in Ca-Mn carbonates (Ca,Mn)CO ₃ studied by Raman spectroscopy. American Mineralogist, 2012, 97, 999-1001.	0.9	18
1525	Reversible high-pressure phase transition in LaN. Journal of Applied Physics, 2012, 111, 093503.	1.1	26
1526	Re-emerging superconductivity at 48 K in iron chalcogenides. Nature, 2012, 483, 67-69.	13.7	294
1527	Ruby fluorescence lifetime measurements for temperature determinations at high (p, T). High Pressure Research, 2012, , 1-8.	0.4	1
1528	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO ₄ . Physical Review B, 2012, 85, .	1.1	63
1529	The thermoelastic behavior of clintonite up to 10 GPa and 1,000 °C. Physics and Chemistry of Minerals, 2012, 39, 385-397.	0.3	4
1530	Tetragonal to orthorhombic phase transition of ammonia borane at low temperature and high pressure. Journal of Applied Physics, 2012, 111, 112618.	1.1	10
1531	Raman spectroscopy of natural cordierite at high water pressure up to 5 GPa. Journal of Raman Spectroscopy, 2012, 43, 559-563.	1.2	22
1532	Calibration of berlinite (AlPO ₄) as Raman spectroscopic pressure sensor for diamond anvil cell experiments at elevated temperatures. Journal of Raman Spectroscopy, 2012, 43, 564-570.	1.2	8
1533	NaEu ₃ (GeO ₄) ₂ (OH) ₂ : A High-Pressure Stable Photoluminescent Lanthanide Germanate. European Journal of Inorganic Chemistry, 2012, 2012, 2527-2532.	1.0	16
1534	Structural and vibrational study of cubic Sb ₂ O ₃ under high pressure. Physical Review B, 2012, 85, .	1.1	71
1535	Compressibility of As_4S_4 : an <i>in situ</i> high-pressure single-crystal X-ray study. Mineralogical Magazine, 2012, 76, 963-973.	0.6	9
1536	Pressure-induced structural change in orthorhombic perovskite GdMnO ₃ . Journal of Physics Condensed Matter, 2012, 24, 115402.	0.7	24
1537	Suppression of magnetism and development of superconductivity within the collapsed tetragonal phase of $\text{Ca}_{1-x}\text{Mn}_x\text{O}_6$. Physical Review B, 2012, 85, .	1.1	32
1538	HgO at high pressures: the transition to the NaCl structure (HgO-III) and the equation of state of tetragonal HgO-II. Physics and Chemistry of Minerals, 2012, 39, 269-275.	0.3	3
1539	Crystal-structure properties and the molecular nature of hydrostatically compressed realgar. Physics and Chemistry of Minerals, 2012, 39, 399-412.	0.3	12

#	ARTICLE	IF	CITATIONS
1540	High pressure study of low compressibility tetracalcium aluminum carbonate hydrates $3\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{CaCO}_3\cdot 11\text{H}_2\text{O}$. Cement and Concrete Research, 2012, 42, 105-110.	4.6	64
1541	Experimental determination of bulk modulus of 14\AA ... tobermorite using high pressure synchrotron X-ray diffraction. Cement and Concrete Research, 2012, 42, 397-403.	4.6	67
1542	Elastic Properties of Tricalcium Aluminate from High-Pressure Experiments and First-Principles Calculations. Journal of the American Ceramic Society, 2012, 95, 2972-2978.	1.9	32
1543	Pressure-induced phase transition of Fe_2TiO_4 : X-ray diffraction and Mössbauer spectroscopy. Journal of Solid State Chemistry, 2012, 185, 72-75.	1.4	9
1544	Structural phase transitions of SrF_2 at high pressure. Journal of Solid State Chemistry, 2012, 186, 231-234.	1.4	13
1545	An X-ray single crystal study of alkaline cations influence on laumontite hydration ability: I. Humidity-induced hydration of Na,K-rich laumontite. Microporous and Mesoporous Materials, 2012, 151, 93-98.	2.2	8
1546	An X-ray single crystal study of alkaline cations influence on laumontite hydration ability: II. Pressure-induced hydration of Na,K-rich laumontite. Microporous and Mesoporous Materials, 2012, 159, 126-131.	2.2	8
1547	Response behavior of ZrO_2 under swift heavy ion irradiation with and without external pressure. Nuclear Instruments & Methods in Physics Research B, 2012, 277, 45-52.	0.6	37
1548	Raman signatures of pressure induced electronic topological and structural transitions in Bi_2Te_3 . Solid State Communications, 2012, 152, 284-287.	0.9	29
1549	Pressure-induced crystallization of amorphous red phosphorus. Solid State Communications, 2012, 152, 390-394.	0.9	58
1550	High pressure powder X-ray diffraction study of Cr_2As and pressure-induced structural phase transition. Solid State Communications, 2012, 152, 509-512.	0.9	9
1551	Ruby micro-piezospectroscopy in $\text{GdAlO}_3/\text{Al}_2\text{O}_3(\text{ZrO}_2)$, $\text{Er}_3\text{Al}_5\text{O}_{12}/\text{Al}_2\text{O}_3(\text{ZrO}_2)$ and $\text{Y}_3\text{Al}_5\text{O}_{12}/\text{Al}_2\text{O}_3(\text{ZrO}_2)$ binary and ternary directionally solidified eutectics. Journal of the European Ceramic Society, 2012, 32, 2145-2151.	2.8	13
1552	Pressure-tuned vibrational resonance coupling of intramolecular fundamentals in ammonium azide (NH_4N_3). Vibrational Spectroscopy, 2012, 58, 188-192.	1.2	17
1553	Phase transition at high pressure in $\text{Cu}_2\text{CO}_3(\text{OH})_2$ related to the reduction of the Jahn-Teller effect. Acta Crystallographica Section B: Structural Science, 2012, 68, 266-274.	1.8	27
1554	High-pressure and high-temperature Raman spectroscopic study of hydrous wadsleyite ($^2\text{-Mg}_2\text{SiO}_4$). Physics and Chemistry of Minerals, 2012, 39, 57-64.	0.3	5
1555	The influence of the Jahn-Teller effect at Fe^{2+} on the structure of chromite at high pressure. Physics and Chemistry of Minerals, 2012, 39, 131-141.	0.3	36
1556	Insights into the high-pressure behavior of kaolinite from infrared spectroscopy and quantum-mechanical calculations. Physics and Chemistry of Minerals, 2012, 39, 143-151.	0.3	16
1557	Structural transformations in cubic Dy_2O_3 at high pressures. Solid State Communications, 2013, 169, 37-41.	0.9	29

#	ARTICLE	IF	CITATIONS
1576	Effect of Water on the Sound Velocities of Ringwoodite in the Transition Zone. Geophysical Monograph Series, 0, , 131-145.	0.1	31
1577	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa ₂ Te ₄ . Journal of Applied Physics, 2013, 114, .	1.1	37
1578	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa ₂ Se ₄ . Journal of Applied Physics, 2013, 113, 233501.	1.1	17
1579	Influence of NaCl on ice VI and ice VII melting curves up to 6GPa, implications for large icy moons. Icarus, 2013, 226, 355-363.	1.1	42
1580	Effect of pressure and temperature on the wavelength shift of the fluorescence line of SrB ₄ O ₇ :Sm ²⁺ scale. High Pressure Research, 2013, 33, 725-733.	0.4	10
1581	An experimental study on SrB ₄ O ₇ :Sm ²⁺ as a pressure sensor. Journal of Applied Physics, 2013, 113, .	1.1	35
1582	The novel phase transition of NaBi(WO ₄) ₂ under high pressure. Journal of Solid State Chemistry, 2013, 200, 246-250.	1.4	4
1583	Structural change in molten basalt at deep mantle conditions. Nature, 2013, 503, 104-107.	13.7	145
1584	Hydrogen (deuterium) vibron frequency as a pressure comparison gauge at multi-Mbar pressures. Journal of Applied Physics, 2013, 114, .	1.1	24
1585	FTIR analysis of the high pressure response of native insulin assemblies. Journal of Molecular Structure, 2013, 1050, 159-165.	1.8	10
1586	Ruby fluorescence pressure scale: Revisited. Chinese Physics B, 2013, 22, 056201.	0.7	13
1587	High-pressure behavior of structural, optical, and electronic transport properties of the golden Th ₂ S ₃ -type Ti ₂ O ₃ . Physical Review B, 2013, 88, .	1.1	24
1588	Phase transitions in PbTe under quasi-hydrostatic pressure up to 50 GPa. High Pressure Research, 2013, 33, 713-719.	0.4	14
1589	High-pressure effect on inverse spinel LiCuVO ₄ : X-ray diffraction and Raman scattering. Chinese Physics B, 2013, 22, 016103.	0.7	4
1590	The effects of extreme pressures on single-crystal structures with distortions of the cation coordination sphere. High Pressure Research, 2013, 33, 523-533.	0.4	0
1591	Investigation of lattice dynamical and dielectric properties of MgO under high pressure by means of mid- and far-infrared spectroscopy. Journal of Physics Condensed Matter, 2013, 25, 505902.	0.7	10
1592	Compressibility and structural stability of two variably hydrated olivine samples (Fo ₉₇ Fa ₃) to 34 GPa by X-ray diffraction and Raman spectroscopy. American Mineralogist, 2013, 98, 1972-1979.	0.9	10
1593	High-Pressure Behavior and Phase Stability of Al ₅ BO ₉ , a Mullite-Type Ceramic Material. Journal of the American Ceramic Society, 2013, 96, 2583-2592.	1.9	21

#	ARTICLE	IF	CITATIONS
1594	CO ₂ -helium and CO ₂ -neon mixtures at high pressures. <i>Journal of Chemical Physics</i> , 2013, 138, 044505.	1.2	4
1595	High pressure powder X-ray diffraction of sillenites Bi ₁₂ MO ₂₀ (M=Si, Ge, Ti) and Bi ₄ Ti ₃ O ₁₂ . <i>Journal of Solid State Chemistry</i> , 2013, 208, 35-42.	1.4	7
1596	High-Pressure Stability and Compressibility of Zircon-Type YV _{1-x} P _x O ₄ :Eu ³⁺ Solid-Solution Nanoparticles: An X-ray Diffraction and Raman Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18603-18612.	1.5	10
1597	Anomalous compression and new high-pressure phases of vanadium sesquioxide, V ₂ O ₃ . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 385401.	0.7	11
1598	Elasticity and lattice dynamics of enstatite at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4071-4082.	1.4	29
1599	High-pressure resistivity technique for quasi-hydrostatic compression experiments. <i>Review of Scientific Instruments</i> , 2013, 84, 063903.	0.6	15
1600	Structural phase transition and photoluminescence properties of YF ₃ and YF ₃ :Eu ³⁺ under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19925.	1.3	32
1601	The pressure-induced amorphous state of acetonitrile. <i>RSC Advances</i> , 2013, 3, 1509-1513.	1.7	10
1602	Determination of the phase diagram of water and investigation of the electrical transport properties of ices VI and VII. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14364.	1.3	6
1603	Pressure-Induced Local Lattice Distortions in $\hat{I}\pm$ -Co[N(CN) ₂] ₂ . <i>Inorganic Chemistry</i> , 2013, 52, 14148-14154.	1.9	8
1604	Structural study of $\hat{I}\pm$ -Bi ₂ O ₃ under pressure. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 475402.	0.7	42
1605	Neutron diffraction and electrical transport studies on magnetic ordering in terbium at high pressures and low temperatures. <i>High Pressure Research</i> , 2013, 33, 555-562.	0.4	11
1606	High pressure studies on uranium and thorium silicide compounds: Experiment and theory. <i>Journal of Alloys and Compounds</i> , 2013, 546, 63-71.	2.8	27
1607	Synthesis, structural characterization and high pressure phase transitions of monolithium hydronium sulfate. <i>Journal of Solid State Chemistry</i> , 2013, 197, 181-185.	1.4	3
1608	Pressure-Dependent Formation and Decomposition of Thiourea Hydrates. <i>Crystal Growth and Design</i> , 2013, 13, 121-125.	1.4	35
1609	Few-layer graphene under high pressure: Raman and X-ray diffraction studies. <i>Solid State Communications</i> , 2013, 154, 15-18.	0.9	109
1610	Anomalous behavior of cristobalite in helium under high pressure. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 3-10.	0.3	22
1611	On the crystal structure and compressional behavior of talc: a mineral of interest in petrology and material science. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 145-156.	0.3	32

#	ARTICLE	IF	CITATIONS
1612	New type of possible high-pressure polymorphism in NiAs minerals in planetary cores. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 183-193.	0.3	10
1613	An x-ray scattering study of $\text{Sn}_2\text{P}_2\text{S}_6$: absence of incommensurate phase up to 1 GPa. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115901.	0.7	12
1614	Equation of state, refractive index and polarizability of compressed water to 7 GPa and 673 K. <i>Journal of Chemical Physics</i> , 2013, 138, 054505.	1.2	33
1615	Polymorphic Transformation of Anhydrous Caffeine upon Grinding and Hydrostatic Pressurizing Analyzed by Low-Frequency Raman Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 162-170.	1.6	39
1616	Imaging of internal stress around a mineral inclusion in a sapphire crystal: application of micro-Raman and photoluminescence spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 147-154.	1.2	20
1617	Pressure-induced noble gas insertion into Linde-type A zeolite and its incompressible behaviors at high pressure. <i>Microporous and Mesoporous Materials</i> , 2013, 182, 191-197.	2.2	14
1618	High-pressure Raman spectroscopy study of LiGaO_2 . <i>Solid State Communications</i> , 2013, 164, 6-10.	0.9	15
1619	Elastic behavior and high pressure-induced phase transition in chabazite: New data from a natural sample from Nova Scotia. <i>Microporous and Mesoporous Materials</i> , 2013, 170, 52-61.	2.2	13
1620	Pressure and temperature dependence of Raman scattering of MnWO_4 . <i>Chemical Physics Letters</i> , 2013, 586, 76-80.	1.2	14
1621	Ammonia borane at low temperature down to 90 K and high pressure up to 15 GPa. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4628-4635.	3.8	16
1622	Crystal structures and stability of LiCeF_5 and LiThF_5 at high pressures: A comparative study of the coordination around the Ce^{4+} and Th^{4+} ions. <i>Journal of Fluorine Chemistry</i> , 2013, 156, 124-129.	0.9	15
1623	Pressure-induced structural and vibrational evolution in ferroelectric RInO_3 (R=Eu, Gd, Dy). <i>Solid State Communications</i> , 2013, 173, 51-55.	0.9	10
1624	Mott transition in CaFe_2O_4 at around 50 GPa. <i>Physical Review B</i> , 2013, 88, .	1.1	16
1625	Novel pressure-induced phase transitions in Co_3O_4 . <i>Applied Physics Letters</i> , 2013, 102, .	1.5	14
1626	High-pressure polymorphs of TbVO_4 : A Raman and ab initio study. <i>Journal of Alloys and Compounds</i> , 2013, 577, 327-335.	2.8	45
1627	High-pressure structural behaviour of $\text{Cu}_0.5\text{Fe}_0.5\text{Cr}_2\text{S}_4$: An experimental and theoretical study. <i>Journal of Alloys and Compounds</i> , 2013, 578, 202-207.	2.8	3
1628	Argon solubility in SiO_2 melt under high pressures: A new experimental result using laser-heated diamond anvil cell. <i>Earth and Planetary Science Letters</i> , 2013, 363, 1-8.	1.8	16
1629	Metastable high-pressure transformations of orthoferrosilite Fs_2 . <i>Physics of the Earth and Planetary Interiors</i> , 2013, 221, 15-21.	0.7	29

#	ARTICLE	IF	CITATIONS
1630	Spin transition of Fe ³⁺ in Al-bearing phase D: An alternative explanation for small-scale seismic scatterers in the mid-lower mantle. <i>Earth and Planetary Science Letters</i> , 2013, 382, 1-9.	1.8	22
1631	High pressure and high temperature in situ X-ray diffraction study on the structural stability of tantalum disilicide. <i>Solid State Communications</i> , 2013, 157, 1-5.	0.9	7
1632	Phase relations in the Fe-FeSi system at high pressures and temperatures. <i>Earth and Planetary Science Letters</i> , 2013, 373, 54-64.	1.8	119
1633	Elasticity of single-crystal iron-bearing pyrope up to 20 GPa and 750 K. <i>Earth and Planetary Science Letters</i> , 2013, 361, 134-142.	1.8	45
1634	Melting of compressed iron by monitoring atomic dynamics. <i>Earth and Planetary Science Letters</i> , 2013, 362, 143-150.	1.8	75
1635	Hydrogen Bonds NH ₂ -N in Compressed Benzimidazole Polymorphs. <i>Crystal Growth and Design</i> , 2013, 13, 696-700.	1.4	36
1636	Vibrational, elastic, and structural properties of cubic silicon carbide under pressure up to 75 GPa: Implication for a primary pressure scale. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	51
1637	High-pressure powder X-ray diffraction study of Cu ₅ Si and pressure-driven isostructural phase transition. <i>Philosophical Magazine Letters</i> , 2013, 93, 85-92.	0.5	0
1638	Structural behaviour of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ metallic glass under high pressure. <i>Intermetallics</i> , 2013, 38, 9-13.	1.8	14
1639	High-Pressure Characterization of Nitrogen-Rich Bis-triaminoguanidinium Azotetrazolate (TAGzT) by In Situ Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1737-1743.	1.1	10
1640	Pressure-induced tetragonal-orthorhombic phase transitions in CeRuPO. <i>Applied Physics Letters</i> , 2013, 102, 051917.	1.5	2
1641	Temperature and pressure effects of multiferroic Bi ₂ NiTiO ₆ compound. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	11
1642	Coherent diffraction imaging of nanoscale strain evolution in a single crystal under high pressure. <i>Nature Communications</i> , 2013, 4, 1680.	5.8	88
1643	Polaron physics and crossover transition in magnetite probed by pressure-dependent infrared spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 035602.	0.7	5
1644	Codetermination of crystal structures at high pressure: Combined application of theory and experiment to the intermetallic compound AuGa $\sqrt{2}$. <i>Physical Review B</i> , 2013, 87, .	1.1	6
1645	Raman spectroscopy of glassy carbon up to 60 GPa. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	39
1646	High-pressure phase transitions of Fe _{3-x} Ti _x O ₄ solid solution up to 60 GPa correlated with electronic spin transition. <i>American Mineralogist</i> , 2013, 98, 736-744.	0.9	25
1647	XRD and XAS structural study of CuAlO ₂ under high pressure. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 115406.	0.7	14

#	ARTICLE	IF	CITATIONS
1648	Material and Elastic Properties of Al -Tobermorite in Ancient Roman Seawater Concrete. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2598-2606.	1.9	106
1649	Observation of the Sixth Polymorph of BiB_3O_6 : In Situ High-Pressure Raman Spectroscopy and Synchrotron X-ray Diffraction Studies on the β -Polymorph. <i>Inorganic Chemistry</i> , 2013, 52, 7460-7466.	1.9	22
1650	Pressure-Induced Transformations in PrVO_4 and SmVO_4 and Isolation of High-Pressure Metastable Phases. <i>Inorganic Chemistry</i> , 2013, 52, 5464-5469.	1.9	60
1651	Phase Behavior of Ag_2CrO_4 under Compression: Structural, Vibrational, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12239-12248.	1.5	23
1652	New Polar Phases of 1,4-Diazabicyclo[2.2.2]octane Perchlorate, An $\text{NH}_4^+\text{N}^-\text{N}$ Hydrogen-Bonded Ferroelectric. <i>Crystal Growth and Design</i> , 2013, 13, 2872-2879.	1.4	20
1653	Crystal structures and stability of trigonal KLnF_4 fluorides (Ln = Y, Ho, Er, Tm, Yb). <i>Dalton Transactions</i> , 2013, 42, 441-447.	1.6	13
1654	Pressure-induced phase transitions in sodium europium carbonate ($\text{Na}_3\text{Eu}(\text{CO}_3)_3$) and europium-doped yttrium sesquioxide ($\text{Y}_2\text{O}_3:\text{Eu}^{3+}$) by time-resolved laser fluorescence spectroscopy. <i>High Pressure Research</i> , 2013, 33, 652-662.	0.4	1
1655	High pressure Raman scattering and X-ray diffraction studies of MgNb_2O_6 . <i>RSC Advances</i> , 2013, 3, 13210.	1.7	19
1656	Superconductivity in Topological Insulator Sb_2Te_3 Induced by Pressure. <i>Scientific Reports</i> , 2013, 3, 2016.	1.6	133
1657	Phase-Dominant Pressure-Induced Planar Molecular Conformation of <i>S</i> -Trioxane. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8911-8917.	1.2	2
1658	Magnetism and structural distortions in uranium sulfide under pressure. <i>Physical Review B</i> , 2013, 87, .	1.1	11
1659	High-pressure phase transitions, amorphization, and crystallization behaviors in Bi_2Se_3 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 125602.	0.7	50
1660	Stabilization of 9/10-Fold Structure in Bismuth Selenide at High Pressures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10045-10050.	1.5	43
1661	Damping and Resonance Correlations in OH^-O Bonded Ferroelectrics. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14213-14217.	1.5	7
1662	Crystal structures and stability of K_2ThF_6 and $\text{K}_7\text{Th}_6\text{F}_{31}$ on compression. <i>Journal of Fluorine Chemistry</i> , 2013, 150, 8-13.	0.9	10
1663	The crystallographic stability and anisotropic compressibility of C54-type TiSi_2 under high pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1291-1294.	1.9	4
1664	Measurement of improved pressure dependence of superconducting transition temperature. <i>High Pressure Research</i> , 2013, 33, 381-391.	0.4	7
1665	Pressure-induced structural phase transition and equation of state of LiTaO_3 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 215401.	0.7	4

#	ARTICLE	IF	CITATIONS
1666	Influence of grain size, surface energy, and deviatoric stress on the pressure-induced phase transition of ZnO and AlN. <i>High Pressure Research</i> , 2013, 33, 642-651.	0.4	18
1667	$E_{1(A)}$ Electronic Band Gap in Wurtzite InAs Nanowires Studied by Resonant Raman Scattering. <i>Nano Letters</i> , 2013, 13, 3011-3016.	4.5	32
1668	The effects of P-T changes on intermolecular interactions in crystal structure of iodoform. <i>Journal of Molecular Structure</i> , 2013, 1041, 106-112.	1.8	10
1669	Pressure-Dependent FTIR-Spectroscopy on the Counterbalance between External and Internal Constraints in Spider Silk of <i>Nephila pilipes</i> . <i>Macromolecules</i> , 2013, 46, 4919-4923.	2.2	13
1670	Single-crystal X-ray diffraction at extreme conditions: a review. <i>High Pressure Research</i> , 2013, 33, 453-465.	0.4	28
1671	Superspace approach to high pressure superstructures. <i>High Pressure Research</i> , 2013, 33, 501-510.	0.4	2
1672	Pressure-Controlled Neutral-Ionic Transition and Disorder of NH $\cdot\cdot\cdot$ N Hydrogen Bonds in Pyrazole. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10661-10668.	1.5	23
1673	Superpressing of a Room Temperature Ionic Liquid, 1-Ethyl-3-methylimidazolium Tetrafluoroborate. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12296-12302.	1.2	34
1674	Phase transitions in europium at high pressures. <i>High Pressure Research</i> , 2013, 33, 158-164.	0.4	4
1675	Thermo-elastic behaviour of Be ₂ BO ₃ OH (hambergite) up to 7 GPa and 1,100 K. <i>Physics and Chemistry of Minerals</i> , 2013, 40, 401-409.	0.3	0
1676	High-Pressure Behaviors of SrF ₂ Nanocrystals with Two Morphologies. <i>Journal of Physical Chemistry C</i> , 2013, 117, 615-619.	1.5	15
1677	Pressure-induced series of phase transitions in sodium azide. <i>Journal of Applied Physics</i> , 2013, 113, 033511.	1.1	56
1678	High pressure structural and vibrational properties of the spin-gap system Cu ₂ PO ₄ (OH). <i>Journal of Physics Condensed Matter</i> , 2013, 25, 045402.	0.7	7
1679	Pressure-dependent structural and electronic properties of quasi-one-dimensional (TMTTF) ₂ PF ₆ . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 014006.	0.7	9
1680	Electronic properties of Fabre charge-transfer salts under various temperature and pressure conditions. <i>Physical Review B</i> , 2013, 87, .	1.1	31
1681	High-pressure elasticity of serpentine and seismic properties of the hydrated mantle wedge. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 527-535.	1.4	44
1682	K ₃ Fe(CN) ₆ : Pressure-Induced Polymerization and Enhanced Conductivity. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24174-24180.	1.5	17
1683	Structural Phase Transitions on AgCuS Stromeyerite Mineral under Compression. <i>Inorganic Chemistry</i> , 2013, 52, 355-361.	1.9	26

#	ARTICLE	IF	CITATIONS
1684	Decompression-Induced Crystal Polymorphism in a Room-Temperature Ionic Liquid, <i>N,N</i> -Diethyl- <i>N</i> -methyl- <i>N</i> -(2-methoxyethyl) Ammonium Tetrafluoroborate. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3264-3269.	1.2	46
1685	Pressure dependence of magnetic properties in Fe-Mn amorphous alloys: evidence for inhomogeneous ferromagnetism. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 346002.	0.7	3
1686	Compressibility of a natural P4/nnc vesuvianite. <i>European Journal of Mineralogy</i> , 2013, 25, 631-637.	0.4	2
1687	Multiple pressure-induced transitions in HgCr ₂ S ₄ . <i>Applied Physics Letters</i> , 2013, 103, 201908.	1.5	13
1688	Observation of antiferromagnetic order collapse in the pressurized insulator LaMnPO. <i>Scientific Reports</i> , 2013, 3, 2555.	1.6	19
1689	Pressure-induced structural transformations in the low-cristobalite form of AlPO ₄ . <i>American Mineralogist</i> , 2013, 98, 285-291.	0.9	9
1690	Compression and structure of brucite to 31 GPa from synchrotron X-ray diffraction and infrared spectroscopy studies. <i>American Mineralogist</i> , 2013, 98, 33-40.	0.9	16
1691	Efficient graphite ring heater suitable for diamond-anvil cells to 1300 K. <i>Review of Scientific Instruments</i> , 2013, 84, 024502.	0.6	27
1692	Phase Transition Study of CaB ₆ under High Pressure. <i>Advanced Materials Research</i> , 0, 705, 97-100.	0.3	0
1693	Brillouin scattering and x-ray diffraction of solid argon to 65 GPa and 700 K: Shear strength of argon at H_P/H_T . <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	20
1694	Pressure-induced Pbca-P21/c phase transition of natural orthoenstatite: Compositional effect and its geophysical implications. <i>American Mineralogist</i> , 2013, 98, 986-992.	0.9	15
1695	Crystal structure of the high-pressure phase of calcium hydroxide, portlandite: In situ powder and single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2013, 98, 1421-1428.	0.9	10
1696	Elasticity of franklinite and trends for transition-metal oxide spinels. <i>American Mineralogist</i> , 2013, 98, 601-608.	0.9	15
1697	Bonding and electronic changes in rhodochrosite at high pressure. <i>American Mineralogist</i> , 2013, 98, 1817-1823.	0.9	20
1698	Pressure-induced densification in GeO ₂ glass: A transmission x-ray microscopy study. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	23
1699	The new Material Science Powder Diffraction beamline at ALBA Synchrotron. <i>Powder Diffraction</i> , 2013, 28, S360-S370.	0.4	307
1700	Single-crystal diffraction at the Extreme Conditions beamline P02.2: procedure for collecting and analyzing high-pressure single-crystal data. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 711-720.	1.0	67
1701	An X-ray diffraction study of the pressure-induced hydration in cordierite at 4-5 GPa. <i>American Mineralogist</i> , 2013, 98, 181-186.	0.9	10

#	ARTICLE	IF	CITATIONS
1702	High-pressure effects on single crystals of electron-doped Pr _{2-x} Ce _x CuO ₄ . Physical Review B, 2013, 87, .	1.1	17
1703	Polyamorphism in cerium based bulk metallic glasses: Electronic and structural properties under pressure and temperature by x-ray absorption techniques. Applied Physics Letters, 2013, 103, .	1.5	19
1704	Residual stress inspection by Eu ³⁺ photoluminescence piezo-spectroscopy: An application in thermal barrier coatings. Journal of Applied Physics, 2013, 114, .	1.1	19
1705	Phase diagram of ammonium nitrate. Journal of Chemical Physics, 2013, 139, 214503.	1.2	21
1706	Observation of a reentrant phase transition in incommensurate potassium. Physical Review B, 2013, 88, .	1.1	20
1707	Pressure-induced structural evolution and amorphization in Eu ₃ Ga ₅ O ₁₂ . Journal of Applied Physics, 2013, 114, 163521.	1.1	9
1708	Pressure-induced amorphous-to-amorphous reversible transformation in Pr ₇₅ Al ₂₅ . Journal of Applied Physics, 2013, 114, 213516.	1.1	14
1709	High pressure synchrotron x-ray diffraction and Raman scattering studies of ammonium azide. Applied Physics Letters, 2013, 102, .	1.5	23
1710	<i>In situ</i> study of the high pressure high-temperature stability field of TaN and of the compressibilities of f-TaN and TaON. High Pressure Research, 2013, 33, 633-641.	0.4	15
1711	Pressure-induced structural and magnetic phase transitions in ordered and disordered equiatomic FeCo. Physical Review B, 2013, 88, .	1.1	7
1712	Compressibility of mimetite and pyromorphite at high pressure. High Pressure Research, 2013, 33, 27-34.	0.4	5
1713	Compression of scheelite-type SrMoO ₄ under quasi-hydrostatic conditions: Redefining the high-pressure structural sequence. Journal of Applied Physics, 2013, 113, .	1.1	66
1714	Pressure-induced symmetry breaking in tetragonal CsAu ₃ . Physical Review B, 2013, 87, .	1.1	15
1715	High-pressure x-ray diffraction and Raman spectroscopy of phase transitions in Sm ₂ O ₃ . Journal of Applied Physics, 2013, 113, .	1.1	51
1716	Pressure-induced phase transformation of In ₂ Se ₃ . Applied Physics Letters, 2013, 102, .	1.5	51
1717	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa ₂ Se ₄ . Journal of Applied Physics, 2013, 113, .	1.1	28
1718	Pressure-induced phase transitions of multiferroic BiFeO ₃ . Chinese Physics C, 2013, 37, 128001.	1.5	5
1719	Pressure-induced phase transition and polymerization of tetracyanoethylene (TCNE). Journal of Chemical Physics, 2013, 138, 094506.	1.2	13

#	ARTICLE	IF	CITATIONS
1720	A high-pressure study of PbCO ₃ by XRD and Raman spectroscopy. Chinese Physics C, 2013, 37, 038001.	1.5	13
1721	Sb ₂ Se ₃ under pressure. Scientific Reports, 2013, 3, 2665.	1.6	97
1722	Spectroscopic and X-ray diffraction investigation of the behavior of hanksite and tychite at high pressures, and a model for the compressibility of sulfate minerals. American Mineralogist, 2013, 98, 1543-1549.	0.9	5
1723	The Sm:YAG primary fluorescence pressure scale. Journal of Geophysical Research: Solid Earth, 2013, 118, 5805-5813.	1.4	35
1724	Pressure-induced phase transitions in single-crystalline Cu ₄ Bi ₄ S ₉ nanoribbons. Chinese Physics B, 2013, 22, 116201.	0.7	2
1725	Static Compression Measurements of Equations of State. AGU Reference Shelf, 0, , 98-142.	0.6	86
1726	Pressure Induced Collapse of the Tetrahedral Framework in Crystalline and Amorphous GeO ₂ . Geophysical Monograph Series, 0, , 503-517.	0.1	32
1727	High-Pressure Far-Infrared Spectroscopic Studies of Hydrogen Bonding in Formic Acid. Applied Spectroscopy, 2013, 67, 1080-1086.	1.2	3
1728	Compressive behaviors of bcc bismuth up to 55â€‰GPa. Physica Status Solidi (B): Basic Research, 2013, 250, 1398-1403.	0.7	8
1729	High-Pressure Crystal Structure and Equation of State of Iron Hydride: Implications for the Earth's Core. Geophysical Monograph Series, 0, , 363-371.	0.1	14
1730	High Pressure Raman Study of TiO ₂ -SiO ₂ Glasses: Evidence of the Structural Change. Geophysical Monograph Series, 2013, , 519-525.	0.1	0
1731	The distorted-fcc phase of samarium. Journal of Physics: Conference Series, 2014, 500, 032009.	0.3	9
1732	A pressure calibration method for a portable wide-access â€œpanoramicâ€ cell. Chinese Physics B, 2014, 23, 110701.	0.7	3
1733	Structural stability of WS ₂ under high pressure. International Journal of Modern Physics B, 2014, 28, 1450168.	1.0	26
1734	Incommensurate-to-incommensurate phase transition in Eu metal at high pressures. Physical Review B, 2014, 90, .	1.1	9
1735	The pressure induced amorphization and behavior of octahedron in Y ₂ O ₃ /Eu ³⁺ nanotubes. Materials Research Express, 2014, 1, 025013.	0.8	5
1736	Structural stability and electrical properties of AlB ₂ -type MnB ₂ under high pressure. Chinese Physics B, 2014, 23, 016102.	0.7	8
1737	New experimental set-ups for studying nanoconfined water on the AILES beamline at SOLEIL. Vibrational Spectroscopy, 2014, 75, 154-161.	1.2	22

#	ARTICLE	IF	CITATIONS
1738	Experimental and theoretical identification of a high-pressure polymorph of Ga ₂ S ₃ with $\hat{I}\bar{4}3m$ -Bi ₂ Te ₃ -type structure. Journal of Applied Physics, 2014, 116, 193507.	1.1	6
1739	High-pressure Raman study of CH ₄ in melanophlogite (type I clathrate). Mineralogical Magazine, 2014, 78, 1661-1669.	0.6	5
1740	High-pressure synthesis and Sn valence state analysis of BaTiO ₃ -SnO solid solution. Journal of Materials Research, 2014, 29, 2928-2933.	1.2	1
1741	Structural and optical investigations of Fe _{1.03} Se _{0.5} Te _{0.5} under high pressure. Journal of Physics Condensed Matter, 2014, 26, 125701.	0.7	7
1743	High pressure x-ray diffraction study of nickel-copper chromites solid solutions. Journal of Physics Condensed Matter, 2014, 26, 505401.	0.7	1
1744	Experimental and theoretical investigation on the compression mechanism of Fe ₃ up to 62.0 GPa. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 801-808.	0.5	7
1745	Hydrogen bonding induced proton exchange reactions in dense D ₂ -NH ₃ and D ₂ -CH ₄ mixtures. Journal of Chemical Physics, 2014, 140, 044510.	1.2	1
1746	Low Temperature Optical Investigations of the Iron-chalcogenide Superconductor Fe _{1.03} Se _{0.5} Te _{0.5} Under High Pressure. Physics Procedia, 2014, 54, 107-112.	1.2	0
1747	Growth of rectangular hollow tube crystals with rutile-type structure in supercritical fluids. Journal of Physics: Conference Series, 2014, 500, 022007.	0.3	1
1748	Exploring the behavior of molybdenum diboride (MoB ₂): A high pressure x-ray diffraction study. Journal of Applied Physics, 2014, 115, .	1.1	17
1749	High pressure spectroscopic studies of hydrazine (N ₂ H ₄). Journal of Physics: Conference Series, 2014, 500, 052008.	0.3	15
1750	Structure determination of the intermediate phase of PbSe using experiments and calculations. Journal of Applied Physics, 2014, 116, 053502.	1.1	3
1751	Anharmonic coupling between fundamental modes in tetramethylurea. Journal of Chemical Physics, 2014, 140, 164310.	1.2	7
1752	Pressure-induced reentrant metallic phase in lithium. Physical Review B, 2014, 89, .	1.1	52
1753	Abnormal acoustic wave velocities in basaltic and (Fe,Al)-bearing silicate glasses at high pressures. Geophysical Research Letters, 2014, 41, 8832-8839.	1.5	24
1754	Pressure-induced phase transition of lead phosphate Pb ₃ (PO ₄) ₂ : X-ray diffraction and XANES. Phase Transitions, 2014, 87, 1255-1264.	0.6	5
1755	Phase transitions during compression of thaumasite, Ca ₃ Si(OH) ₆ (CO ₃) ₃ (SO ₄) ₂ ·12H ₂ O: A high-pressure synchrotron powder X-ray diffraction study. Mineralogical Magazine, 2014, 78, 1193-1208.	0.6	7
1756	Polarization-dependent infrared reflectivity study of $Sr_{2.5}Ca_{41}O$ under pressure: Charge dynamics, charge distribution, and anisotropy. Physical Review B, 2014, 90, .	1.1	5

#	ARTICLE	IF	CITATIONS
1757	Five-dimensional visualization of phase transition in BiNiO ₃ under high pressure. Applied Physics Letters, 2014, 104, 043108.	1.5	18
1758	Deviatoric stress-induced phase transitions in diamantane. Journal of Chemical Physics, 2014, 141, 154305.	1.2	9
1759	Pressure-induced phase coexistence in BaFe _{1.8} Co _{0.2} As ₂ . Journal of Applied Physics, 2014, 115, 143904.	1.1	1
1760	Room-temperature vibrational properties of multiferroic MnWO ₄ under quasi-hydrostatic compression up to 39 GPa. Journal of Applied Physics, 2014, 115, 043510.	1.1	22
1761	Structural and Vibrational Study of Pseudocubic CdIn ₂ Se ₄ under Compression. Journal of Physical Chemistry C, 2014, 118, 26987-26999.	1.5	7
1762	Calcium Sulfoaluminate Sodalite (Ca ₄ Al ₆ O ₁₂ SO ₄) Crystal Structure Evaluation and Bulk Modulus Determination. Journal of the American Ceramic Society, 2014, 97, 892-898.	1.9	36
1763	Nuclear forward scattering and first-principles studies of the iron oxide phase Fe ₄ O ₅ . Physical Review B, 2014, 90, .	1.1	8
1764	Lone-pair interactions and photodissociation of compressed nitrogen trifluoride. Journal of Chemical Physics, 2014, 141, 064706.	1.2	8
1765	Chemical stability of molten 2,4,6-trinitrotoluene at high pressure. Applied Physics Letters, 2014, 104, .	1.5	13
1766	Further complexities of the 10 A phase revealed by infrared spectroscopy and X-ray diffraction. American Mineralogist, 2014, 99, 712-719.	0.9	3
1767	Structure determination of the high-pressure phase of CdSe. Journal of Applied Physics, 2014, 115, 223507.	1.1	10
1768	The redshift of surface plasmon resonance of colloidal gold nanoparticles induced by pressure with diamond anvil cell. Journal of Applied Physics, 2014, 115, .	1.1	20
1769	Compression behavior of Sm ₂ Ti ₂ O ₇ -pyrochlore up to 50 GPa: single-crystal X-ray diffraction and density functional theory calculations. Science Bulletin, 2014, 59, 5278-5282.	1.7	7
1770	Inter- and Intralayer Compression of Germanane. Journal of Physical Chemistry C, 2014, 118, 28196-28201.	1.5	7
1771	Melting and phase transitions of nitrogen under high pressures and temperatures. Journal of Chemical Physics, 2014, 140, 244510.	1.2	26
1772	Suppression of the charge-density-wave state in Sr ₁₀ Ca ₄ Cu ₂₄ . Physical Review B, 2014, 89, .	1.1	7
1773	High-pressure single-crystal elasticity study of CO ₂ across phase I-III transition. Applied Physics Letters, 2014, 104, .	1.5	7
1774	Role of the 245 phase in alkaline iron selenide superconductors revealed by high-pressure studies. Physical Review B, 2014, 89, .	1.1	31

#	ARTICLE	IF	CITATIONS
1775	Structure and compressibility of the high-pressure molecular phase II of carbon dioxide. Physical Review B, 2014, 89, .	1.1	23
1776	AN ORGANIC COSMO-BAROMETER: DISTINCT PRESSURE AND TEMPERATURE EFFECTS FOR METHYL SUBSTITUTED POLYCYCLIC AROMATIC HYDROCARBONS. Astrophysical Journal, 2014, 784, 98.	1.6	5
1777	Crystal structure and compressibility of lead dioxide up to 140 GPa. American Mineralogist, 2014, 99, 170-177.	0.9	16
1778	Behavior of Decomposed Ammonia Borane at High Pressure up to ~10 GPa. Materials Science Forum, 0, 783-786, 1829-1835.	0.3	1
1779	Isothermal and isochoric crystallization of highly hygroscopic pyridine<i>N</i>-oxide of aqueous solution. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 487-491.	0.5	9
1780	Pressure-induced phase transitions in coesite. American Mineralogist, 2014, 99, 755-763.	0.9	16
1781	Structures of two intermediate phases between the B1 and B2 phases of PbS under high pressure. AIP Advances, 2014, 4, .	0.6	8
1782	High-pressure crystal chemistry of coesite-I and its transition to coesite-II. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, 761-773.	0.4	17
1783	Pressure-Induced Cationic Disorder in Pyrochlore Oxides (La _{1-x} Ce _x) ₂ Zr ₂ O ₇ and Enhancement of Compressibility. Advanced Materials Research, 2014, 1033-1034, 583-587.	0.3	0
1784	In-situ infrared spectra of hydroxyl in wadsleyite and ringwoodite at high pressure and high temperature. American Mineralogist, 2014, 99, 724-729.	0.9	18
1785	High-pressure cell for neutron diffraction with in situ pressure control at cryogenic temperatures. Review of Scientific Instruments, 2014, 85, 043904.	0.6	7
1786	Pressure dependence of Raman spectrum in InAs nanowires. Journal of Physics Condensed Matter, 2014, 26, 235301.	0.7	6
1787	Twinned caesium cerium(IV) pentafluoride. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, i12-i13.	0.2	3
1788	In-situ high-pressure powder X-ray diffraction study of U^{4+} -zirconium phosphate. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 510-516.	0.5	0
1789	Tuning the band gap of PbCrO ₄ through high-pressure: Evidence of wide-to-narrow semiconductor transitions. Journal of Alloys and Compounds, 2014, 587, 14-20.	2.8	60
1790	Pressure-induced phase transformations in mineral chalcocite, Cu ₂ S, under hydrostatic conditions. Journal of Alloys and Compounds, 2014, 610, 645-650.	2.8	15
1791	Equation of state of pyrope-almandine solid solution measured using a diamond anvil cell and in situ synchrotron X-ray diffraction. Physics of the Earth and Planetary Interiors, 2014, 228, 88-91.	0.7	18
1792	High-pressure phase transition and unusual compressibility of apatite-type La ₁₀ Si ₆ O ₂₇ . Journal of Alloys and Compounds, 2014, 586, 279-284.	2.8	21

#	ARTICLE	IF	CITATIONS
1793	Aluminum speciation in aqueous fluids at deep crustal pressure and temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 128-141.	1.6	20
1794	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO ₄ and LaVO ₄ . <i>Materials Research Bulletin</i> , 2014, 50, 279-284.	2.7	60
1795	Pressure-induced structural phase transition in bulk Zn _{0.98} Mn _{0.02} O by angular dispersive X-ray diffraction. <i>Journal of Alloys and Compounds</i> , 2014, 604, 298-303.	2.8	5
1796	Structural and elastic properties of defect chalcopyrite HgGa ₂ S ₄ under high pressure. <i>Journal of Alloys and Compounds</i> , 2014, 583, 70-78.	2.8	32
1797	Experimental and theoretical investigations on high-pressure phase transition of Sr ₂ Fe ₂ O ₅ . <i>Physics and Chemistry of Minerals</i> , 2014, 41, 449-459.	0.3	6
1798	Pressurizing the HgCr ₂ Se ₄ spinel at room temperature. <i>Applied Physics Letters</i> , 2014, 104, 011911.	1.5	10
1799	Temperature dependence of the pressure induced monoclinic distortion in the spin Shastryâ€™Sutherland compound SrCu ₂ (BO ₃) ₂ . <i>Solid State Communications</i> , 2014, 186, 13-17.	0.9	13
1800	High Pressure Raman and X-ray Diffraction Study of [121] Tetramantane. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7683-7689.	1.5	6
1801	Experimental evidence for pressure-driven isostructural and symmetry-breaking phase transitions on Bi ₁₄ CrO ₂₄ . <i>Solid State Communications</i> , 2014, 182, 50-54.	0.9	7
1802	Raman study of MgCO ₃ â€™FeCO ₃ carbonate solid solution at high pressures up to 55 GPa. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 633-638.	0.3	37
1803	Zeolites at high pressure: A review. <i>Mineralogical Magazine</i> , 2014, 78, 267-291.	0.6	88
1804	New insights into the enigma of boron carbide inverse molecular behavior. <i>Journal of Solid State Chemistry</i> , 2014, 215, 85-93.	1.4	43
1805	High-pressure U ₃ O ₈ with the fluorite-type structure. <i>Journal of Solid State Chemistry</i> , 2014, 213, 110-115.	1.4	17
1806	In situ synchrotron X-ray diffraction in the laser-heated diamond anvil cell: Melting phenomena and synthesis of new materials. <i>Coordination Chemistry Reviews</i> , 2014, 277-278, 15-30.	9.5	37
1807	Pressure-induced Pbcâ€™P21/c phase transition of natural orthoenstatite: The effect of high temperature and its geophysical implications. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 228, 150-159.	0.7	14
1808	High-pressure phase transitions in the rare-earth orthoferrite LaFeO ₃ . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 452-458.	0.5	22
1809	Enhanced Electron Transport in Nb-Doped TiO ₂ Nanoparticles via Pressure-Induced Phase Transitions. <i>Journal of the American Chemical Society</i> , 2014, 136, 419-426.	6.6	151
1810	Compressibility of a natural smithsonite ZnCO ₃ up to 50 GPa. <i>High Pressure Research</i> , 2014, 34, 89-99.	0.4	22

#	ARTICLE	IF	CITATIONS
1811	Effect of Pressure and Temperature on Structural Stability of MoS ₂ . Journal of Physical Chemistry C, 2014, 118, 3230-3235.	1.5	110
1812	Electronic Properties and Metrology Applications of the Diamond NV^{0+} under Pressure. Physical Review Letters, 2014, 112, 047601.	2.9	302
1813	Monolayer behaviour in bulk ReS ₂ due to electronic and vibrational decoupling. Nature Communications, 2014, 5, 3252.	5.8	906
1814	Boron phosphide under pressure: <i>In situ</i> study by Raman scattering and X-ray diffraction. Journal of Applied Physics, 2014, 116, .	1.1	33
1815	Compressibility and Structural Stability of Nanocrystalline TiO ₂ Anatase Synthesized from Freeze-Dried Precursors. Inorganic Chemistry, 2014, 53, 11598-11603.	1.9	28
1816	Photoluminescence studies of Y ₂ O ₃ :Eu ³⁺ under high pressure. Journal of Applied Physics, 2014, 115, .	1.1	36
1817	High pressure electrical transport behavior in organic semiconductor pentacene. High Pressure Research, 2014, 34, 355-364.	0.4	8
1818	High pressure supramolecular chemistry. Science Bulletin, 2014, 59, 5258-5268.	1.7	11
1819	Sub-100 ps laser-driven dynamic compression of solid deuterium with a $\lambda = 400$ nm laser pulse. Applied Physics Letters, 2014, 105, .	1.5	7
1820	The Local Atomic Structures of Liquid CO at 3.6 GPa and Polymerized CO at 0 to 30 GPa from High-Pressure Pair Distribution Function Analysis. Chemistry - A European Journal, 2014, 20, 11531-11539.	1.7	17
1821	Exploring the high pressure behavior of 2D and quasi-3D boron layers in MoB ₂ . RSC Advances, 2014, 4, 52878-52882.	1.7	8
1822	Crystal structures, elastic properties, and hardness of high-pressure synthesized CrB ₂ and CrB ₄ . Journal of Superhard Materials, 2014, 36, 279-287.	0.5	49
1823	Confined H ₂ O molecules as local probes of pressure-induced amorphisation in faujasite. Physical Chemistry Chemical Physics, 2014, 16, 12202.	1.3	16
1824	Pressure-induced isostructural phase transition in CaB ₄ . RSC Advances, 2014, 4, 42523-42529.	1.7	6
1825	High-Pressure Phase Transition of Coffinite, USiO ₄ . Journal of Physical Chemistry C, 2014, 118, 25141-25149.	1.5	14
1826	Pressure-Induced Valence Change and Semiconductor-Metal Transition in PbCrO ₃ . Journal of Physical Chemistry C, 2014, 118, 23274-23278.	1.5	17
1827	Bandgap closure and reopening in CsAu ₃ at high pressure. Physical Review B, 2014, 89, .	1.1	14
1828	Structural stability and compressive behavior of ZrH ₂ under hydrostatic pressure and nonhydrostatic pressure. RSC Advances, 2014, 4, 46780-46786.	1.7	13

#	ARTICLE	IF	CITATIONS
1829	Direct parameterization of the pressure-dependent volume by using an inverted approximate Vinet equation of state. <i>Journal of Applied Crystallography</i> , 2014, 47, 384-390.	1.9	2
1830	Trona at extreme conditions: A pollutant-sequestering material at high pressures and low temperatures. <i>American Mineralogist</i> , 2014, 99, 1973-1984.	0.9	8
1831	Anomalous pressure-induced phase transformation in nano-crystalline erbium sesquioxide (Er ₂ O ₃): partial amorphization under compression. <i>High Pressure Research</i> , 2014, 34, 70-77.	0.4	10
1832	Equations of state of ice VI and ice VII at high pressure and high temperature. <i>Journal of Chemical Physics</i> , 2014, 141, 104505.	1.2	49
1833	High-pressure behavior of davyne [CAN-topology]: An in situ single-crystal synchrotron diffraction study. <i>Microporous and Mesoporous Materials</i> , 2014, 198, 203-214.	2.2	7
1834	High-Pressure Raman Scattering of CaWO ₄ Up to 46.3 GPa: Evidence of a New High-Pressure Phase. <i>Inorganic Chemistry</i> , 2014, 53, 9729-9738.	1.9	29
1835	High-pressure Apparatus Integrated with Synchrotron Radiation. <i>Reviews in Mineralogy and Geochemistry</i> , 2014, 78, 745-777.	2.2	24
1836	Luminescence Properties of Compressed Tetraphenylethene: The Role of Intermolecular Interactions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2968-2973.	2.1	154
1837	High-Pressure Studies of Bi ₂ S ₃ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 1713-1720.	1.1	81
1838	Colossal Monotonic Response to Hydrostatic Pressure in Molecular Crystal Induced by a Chemical Modification. <i>Crystal Growth and Design</i> , 2014, 14, 4247-4253.	1.4	26
1839	Structural Phase Transition and Photoluminescence Properties of YF ₃ :Eu ³⁺ Nanocrystals under High Pressure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22739-22745.	1.5	29
1840	Thermo-elastic behavior and P/T phase stability of TlAlSiO ₄ (ABW). <i>Microporous and Mesoporous Materials</i> , 2014, 197, 262-267.	2.2	3
1841	Near-infrared spectra of H ₂ O under high pressure and high temperature: Implications for a transition from proton tunneling to hopping states. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 509-513.	2.0	2
1842	Strain derivatives of T _{cin} HgBa ₂ CuO ₄ + δ : The CuO ₂ plane alone is not enough. <i>Physical Review B</i> , 2014, 89, .	1.1	11
1843	Using high pressure to unravel the mechanism of visible emission in amorphous Si/SiO _x nanoparticles. <i>Physical Review B</i> , 2014, 89, .	1.1	14
1844	Intermolecular Stabilization of 3,3'-Diamino-4,4'-azoxyfurazan (DAAF) Compressed to 20 GPa. <i>Journal of Physical Chemistry A</i> , 2014, 118, 5969-5982.	1.1	25
1845	A combined study of the equation of state of monazite-type lanthanum orthovanadate using <i>in situ</i> high-pressure diffraction and <i>ab initio</i> calculations. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 533-538.	0.5	16
1846	Quasistatic Disorder of NH \cdot N Bonds and Elastic-Properties Relationship in 2-Phenylimidazole Crystals. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7049-7056.	1.5	6

#	ARTICLE	IF	CITATIONS
1847	In-situ vibrational optical rotatory dispersion of molecular organic crystals at high pressures. <i>Analytica Chimica Acta</i> , 2014, 842, 51-56.	2.6	3
1848	Pressure induced phase transition of PbNiO ₃ from LiNbO ₃ -type to perovskite. <i>Solid State Communications</i> , 2014, 196, 8-12.	0.9	12
1849	Dynamic and structural properties of orthorhombic rare-earth manganites under high pressure. <i>Physical Review B</i> , 2014, 90, .	1.1	26
1850	Structure Evolutions and Metallic Transitions in In ₂ Se ₃ Under High Pressure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5445-5452.	1.5	24
1851	Pressure-induced spin collapse of octahedrally coordinated Fe^{3+} in CaFe_2O_7 . <i>Physical Review B</i> , 2014, 90, .	1.1	12
1852	Effect of H ₂ O on the Pressure-Induced Amorphization of AlPO ₄ -54Å. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3651-3663.	1.5	24
1853	Raman and luminescence studies on phase transition of EuNbO ₄ under high pressure. <i>Journal of Rare Earths</i> , 2014, 32, 787-791.	2.5	27
1854	Wallach's Rule Enforced by Pressure in Mandelic Acid. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4309-4313.	1.5	24
1855	Isostructural Second-Order Phase Transition of Bi ₂ O ₃ at High Pressures: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23189-23201.	1.5	59
1856	Pressure-Induced Phase Transition in Hydrogen-Bonded Supramolecular Structure: Ammonium Formate. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8521-8530.	1.5	15
1857	Structural Transition of MnNb ₂ O ₆ under Quasi-Hydrostatic Pressure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19280-19286.	1.5	19
1858	Elastic behavior and pressure-induced structure evolution of topaz up to 45 GPa. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 569-577.	0.3	17
1859	Static elasticity of cordierite I: Effect of heavy ion irradiation on the compressibility of hydrous cordierite. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 579-591.	0.3	8
1860	Static elasticity of cordierite II: effect of molecular CO ₂ channel constituents on the compressibility. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 617-631.	0.3	3
1861	High-pressure single-crystal X-ray diffraction study of jadeite and kosmochlor. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 695-707.	0.3	15
1862	High-pressure polymorphism and structural transitions of norsethite, BaMg(CO ₃) ₂ . <i>Physics and Chemistry of Minerals</i> , 2014, 41, 737-755.	0.3	14
1863	Equation of state of single-crystal cubic boron phosphide. <i>Journal of Superhard Materials</i> , 2014, 36, 61-64.	0.5	8
1864	Evolution of the optical properties of chromium spinels CdCr ₂ O ₄ and HgCr ₂ O ₄ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 23189-23201.	1.1	10

#	ARTICLE	IF	CITATIONS
1865	Pressure-Induced Superconductivity and Its Scaling with Doping-Induced Superconductivity in the Iron Pnictide with Skutterudite Intermediary Layers. <i>Advanced Materials</i> , 2014, 26, 2346-2351.	11.1	26
1866	Pressure-Induced Selectivity for Probing Inner Tubes in Double- and Triple-Walled Carbon Nanotubes: A Resonance Raman Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8153-8158.	1.5	32
1867	Pressure-Induced Solvate Crystallization of 1,4-Diazabicyclo[2.2.2]octane Perchlorate with Methanol. <i>Crystal Growth and Design</i> , 2014, 14, 2187-2191.	1.4	20
1868	Structural and Vibrational Properties of CdAl ₂ S ₄ under High Pressure: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15363-15374.	1.5	8
1869	Structure-melting relations in isomeric dibromobenzenes. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 492-497.	0.5	6
1870	Spin and valence states of iron in Al-bearing silicate glass at high pressures studied by synchrotron Mossbauer and X-ray emission spectroscopy. <i>American Mineralogist</i> , 2014, 99, 415-423.	0.9	35
1871	High-pressure behavior of Fe ₃ P and the role of phosphorus in planetary cores. <i>Earth and Planetary Science Letters</i> , 2014, 390, 296-303.	1.8	34
1872	Single-crystal elasticity of the deep-mantle magnesite at high pressure and temperature. <i>Earth and Planetary Science Letters</i> , 2014, 392, 292-299.	1.8	39
1873	Structural transformations in crystals induced by radiation and pressure. Part 1. How pressure influences the intramolecular photochemical reactions in crystals. <i>CrystEngComm</i> , 2014, 16, 6039-6048.	1.3	11
1874	Pressure-Induced Metallization of Molybdenum Disulfide. <i>Physical Review Letters</i> , 2014, 113, 036802.	2.9	239
1875	Mechanical behaviors and phase transition of Ho ₂ O ₃ nanocrystals under high pressure. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	18
1876	Dependence on pressure of the refractive indices of wurtzite ZnO, GaN, and AlN. <i>Physical Review B</i> , 2014, 90, .	1.1	13
1877	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO ₃ (A = Al, Sc, Fe, and In). <i>Journal of Physical Chemistry C</i> , 2014, 118, 4354-4361.	1.5	22
1878	Experimental determination of melting in the systems enstatite-magnesite and magnesite-calcite from 15 to 80 GPa. <i>American Mineralogist</i> , 2014, 99, 1544-1554.	0.9	23
1879	Quasi-hydrostatic X-ray powder diffraction study of the low- and high-pressure phases of CaWO ₄ up to 28 GPa. <i>Solid State Sciences</i> , 2014, 36, 16-23.	1.5	18
1880	Atomic structure of Pd ₈₁ Si ₁₉ glassy alloy under high pressure. <i>Acta Materialia</i> , 2014, 81, 420-427.	3.8	33
1881	Pressure-Induced Diversity of π -Stacking Motifs and Amorphous Polymerization in Pyrrole. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12420-12427.	1.5	13
1882	Pressure-induced water intrusion in FER-type zeolites and the influence of extraframework species on structural deformations. <i>Microporous and Mesoporous Materials</i> , 2014, 191, 27-37.	2.2	22

#	ARTICLE	IF	CITATIONS
1883	Reversible pressure-induced first-order phase transitions in anion-excess fluorite KY ₃ F ₁₀ studied with single-crystal X-ray diffraction. <i>Solid State Sciences</i> , 2014, 30, 61-67.	1.5	2
1884	Experimental investigation of methane hydrates dissociation up to 5GPa: Implications for Titan's interior. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 229, 144-152.	0.7	22
1885	Phase boundary of pressure-induced I4mm to Cmc21 transition in ammonia borane at elevated temperature determined using Raman spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8293-8302.	3.8	5
1886	Iron spin state in silicate glass at high pressure: Implications for melts in the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2014, 385, 130-136.	1.8	16
1887	Stress-induced phase transformation and optical coupling of silver nanoparticle superlattices into mechanically stable nanowires. <i>Nature Communications</i> , 2014, 5, 4179.	5.8	114
1888	Triple Guest Occupancy and Negative Compressibility in Hydrogen-Loaded \hat{I}^2 -Hydroquinone Clathrate. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1880-1884.	2.1	20
1889	Lattice Dynamic Behavior of Orthoferrosilite (FeSiO ₃) toward Phase Transition under Compression. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12410-12419.	1.5	11
1890	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13177-13185.	1.5	33
1891	Universal Fractional Noncubic Power Law for Density of Metallic Glasses. <i>Physical Review Letters</i> , 2014, 112, 185502.	2.9	64
1892	Sound velocities of bcc-Fe and Fe _{0.85} Si _{0.15} alloy at high pressure and temperature. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 233, 24-32.	0.7	21
1893	High pressure Raman spectroscopic study of phase transformation in TaO ₂ F. <i>Vibrational Spectroscopy</i> , 2014, 71, 12-17.	1.2	6
1894	Single-crystal elastic constants of magnesium difluoride (MgF ₂) to 7.4GPa. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 136-141.	1.9	7
1895	Mechanisms of anomalous compressibility of vitreous silica. <i>Physical Review B</i> , 2014, 90, .	1.1	15
1896	Equations of state in the Fe-FeSi system at high pressures and temperatures. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2810-2827.	1.4	71
1897	Peak scaling method to measure temperatures in the laser-heated diamond anvil cell and application to the thermal conductivity of MgO. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8154-8170.	1.4	20
1898	Interactions in the ammonia-deuterium system under pressure. <i>Journal of Physics: Conference Series</i> , 2014, 500, 032002.	0.3	1
1899	The high-pressure phase stability of 2,4,6-trinitrotoluene (TNT). <i>Journal of Physics: Conference Series</i> , 2014, 500, 052006.	0.3	13
1900	Hints for the metallic phase in Rb ₄ C ₆₀ under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2569-2573.	0.7	0

#	ARTICLE	IF	CITATIONS
1901	Physical and chemical transformations of iron pentacarbonyl under pressure. Journal of Physics: Conference Series, 2014, 500, 022011.	0.3	1
1902	Characterization of ion-induced radiation effects in nuclear materials using synchrotron x-ray techniques. Journal of Materials Research, 2015, 30, 1366-1379.	1.2	36
1903	Pressure-dependent structure of the null-scattering alloy $\text{Ti}_{0.676}\text{Zr}_{0.324}$. High Pressure Research, 2015, 35, 239-246.	0.4	7
1904	Development of Field Angle Resolved Specific Heat Measurement System for Unconventional Superconductors. Journal of Physics: Conference Series, 2015, 592, 012148.	0.3	1
1905	Many-body interaction and equation of state for solid krypton from <i>ab initio</i> calculation. Materials Research Innovations, 2015, 19, S5-782-S5-786.	1.0	0
1906	One-dimensional chain melting in incommensurate potassium. Physical Review B, 2015, 91, . Breakdown of three-dimensional Dirac semimetal state in pressurized	1.1	25
1907	$\text{d}^3\text{C}^2\text{A}^2\text{S}^2$	1.1	41
1908	V^2O^5 and Si^2Ge^2	1.1	4
1909	Thermal transport across high-pressure semiconductor-metal transition in Si and Ge. Physical Review B, 2015, 91, .	1.1	28
1910	Possible evidence for high-pressure induced charge transfer in thallium rhenium oxide at room temperature. Physical Review B, 2015, 92, .	1.1	5
1911	Pressure-induced spin collapse of octahedrally coordinated Mn^3Ca_3 the tetragonal hydrogarnet henritermierite	1.1	8
1912	Pressure-induced transition in the multiferroic CoC_2O_4 spinel.	1.1	35
1913	Pressure-induced cation-cation bonding in V^2O^3	1.1	17
1914	Pressure-induced quantum phase transitions in a Yb_6B single crystal. Physical Review B, 2015, 92, .	1.1	26
1915	Optical study of BaFe_2 under pressure: Coexistence of spin-density-wave gap and superconductivity. Physical Review B, 2015, 92, .	1.1	7
1916	Electronic Topological Transition in Ag_2Te at High-pressure. Scientific Reports, 2015, 5, 14681.	1.6	20
1917	Structural Deformation of Sm@C_{88} under High Pressure. Scientific Reports, 2015, 5, 13398.	1.6	7
1918	X-Ray Diffraction at Extreme Conditions: Today and Tomorrow. , 2015, , 255-313.		1

#	ARTICLE	IF	CITATIONS
1919	New high-pressure van der Waals compound Kr(H ₂) ₄ discovered in the krypton-hydrogen binary system. <i>Scientific Reports</i> , 2015, 4, .	1.6	36
1920	High-pressure polymorphism as a step towards high density structures of LiAlH ₄ . <i>Applied Physics Letters</i> , 2015, 107, 041906.	1.5	4
1921	Pressure-induced phase transition and electrical properties of thermoelectric Al-doped Mg ₂ Si. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	12
1922	Signature of a polyamorphic transition in the THz spectrum of vitreous GeO ₂ . <i>Scientific Reports</i> , 2015, 5, 14996.	1.6	6
1923	Effect of pressure on the structural properties of Li[Li _{0.1} Ni _{0.35} Mn _{0.55}]O ₂ . <i>AIP Advances</i> , 2015, 5, .	0.6	2
1924	Metallization and Hall-effect of Mg ₂ Ge under high pressure. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	13
1925	Pressure-induced changes in the electron density distribution in $\hat{1}\pm$ -Ge near the $\hat{1}\pm$ - $\hat{1}^2$ transition. <i>Applied Physics Letters</i> , 2015, 107, 072109.	1.5	16
1926	Effects of substitution, pressure, and temperature on the phonon mode in layered-rocksalt-type Li(1 \hat{a} ^x)/ ₂ Ga(1 \hat{a} ^x)/ ₂ Zn _x O (x $\hat{\epsilon}$ %=â€‰0.036â€‰0.515) alloys. <i>Journal of Applied Physics</i> , 2015, 118, 185903.	1.1	5
1927	Pressure-Induced Amorphization of Small Pore Zeolitesâ€”the Role of Cation-H ₂ O Topology and Anti-glass Formation. <i>Scientific Reports</i> , 2015, 5, 15056.	1.6	7
1928	Ab initio calculations of many-body interactions for compressed solid argon. <i>Journal of Chemical Physics</i> , 2015, 143, 174506.	1.2	11
1929	Phase Diagram and Transformations of Iron Pentacarbonyl to nm Layered Hematite and Carbon-Oxygen Polymer under Pressure. <i>Scientific Reports</i> , 2015, 5, 15139.	1.6	8
1930	The strength of electron electron correlation in Cs ₃ C ₆₀ . <i>Scientific Reports</i> , 2015, 5, 15240.	1.6	10
1931	Crystallography under high pressure using synchrotron radiation. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 504007.	1.3	6
1932	HgGa ₂ Se ₄ under high pressure: An optical absorption study. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2043-2051.	0.7	13
1933	Exploring the properties of MTO ₄ compounds using highâ€”pressure powder xâ€”ray diffraction. <i>Crystal Research and Technology</i> , 2015, 50, 729-736.	0.6	45
1934	Effects of pressure and distortion on superconductivity in Tl ₂ Ba ₂ CaCu ₂ O ₈ + <i>i</i> \hat{I} . <i>Journal of Physics Condensed Matter</i> , 2015, 27, 445701.	0.7	10
1935	Reversing the Resistivity Contrast in the Phaseâ€”Change Memory Material GeSb ₂ Te ₄ Using High Pressure. <i>Advanced Electronic Materials</i> , 2015, 1, 1500240.	2.6	19
1936	Investigation of exotic stable calcium carbides using theory and experiment. <i>Nature Communications</i> , 2015, 6, 6974.	5.8	70

#	ARTICLE	IF	CITATIONS
1937	Pressure-Dependent Relaxation Dynamics of Excitons in Conjugated Polymer Film. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13194-13199.	1.5	8
1938	Pressure-induced polymerization of P(CN) ₃ . <i>Journal of Chemical Physics</i> , 2015, 142, 194503.	1.2	17
1939	Mechanism of the $\alpha \rightarrow \beta$ transformation in iron. <i>Physical Review B</i> , 2015, 91, .	1.1	5
1940	Correlation between T _c and Crystal Structure in S-Doped FeSe Superconductors under Pressure: Studied by X-ray Diffraction of FeSe _{0.8} S _{0.2} at Low Temperatures. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 024713.	0.7	10
1941	Viscosity and phase separations of binary CO ₂ -He and CO ₂ -Ar mixtures. <i>High Pressure Research</i> , 2015, 35, 1-8.	0.4	4
1942	Photomodulation spectrum of phenyl-substituted ladder-type poly(para-phenylene) under hydrostatic pressure. <i>Journal of Polymer Research</i> , 2015, 22, 1.	1.2	0
1943	The use of ¹³ C diamond as pressure and temperature sensor for diamond-anvil-cell experiments. <i>European Journal of Mineralogy</i> , 2015, 27, 365-375.	0.4	5
1944	Equation of state and structural phase transitions in iron-based Ba ₃ TaFe ₃ Si ₂ O ₁₄ langasite at high hydrostatic pressures. <i>JETP Letters</i> , 2015, 100, 798-806.	0.4	7
1945	High-pressure behavior of synthetic mordenite-Na: an in situ single-crystal synchrotron X-ray diffraction study. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2015, 230, 201-211.	0.4	18
1946	Thermo-compression of pyrope-grossular garnet solid solutions: Non-linear compositional dependence. <i>American Mineralogist</i> , 2015, 100, 215-222.	0.9	36
1947	First evidence of P21/n to P21/c structural transformation in pyroxene-type LiAlGe ₂ O ₆ under high-pressure conditions. <i>Journal of Solid State Chemistry</i> , 2015, 228, 250-257.	1.4	4
1948	High-pressure crystallography and compression behavior of the alkali-scandium-germanate end-members LiScGe ₂ O ₆ and NaScGe ₂ O ₆ . <i>Journal of Solid State Chemistry</i> , 2015, 229, 188-196.	1.4	8
1949	The axial ratio of hcp Fe and Fe-Ni-Si alloys to the conditions of Earth's inner core. <i>American Mineralogist</i> , 2015, 100, 2718-2724.	0.9	20
1950	Interpretation of Luminescence Centers. <i>Springer Mineralogy</i> , 2015, , 221-420.	0.4	2
1951	Synthesis and High-Pressure Study of Corundum-Type In ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2015, 119, 29076-29087.	1.5	23
1952	Experimental and theoretical study of α -Eu ₂ (MoO ₄) ₃ under compression. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 465401.	0.7	5
1953	Quasicrystals at extreme conditions: The role of pressure in stabilizing icosahedral Al ₆₃ Cu ₂₄ Fe ₁₃ at high temperature. <i>American Mineralogist</i> , 2015, 100, 2412-2418.	0.9	17
1954	Transformable H-bonds and conformation in compressed glucose. <i>Chemical Science</i> , 2015, 6, 1991-1995.	3.7	30

#	ARTICLE	IF	CITATIONS
1955	Crystal behavior of potassium bromate under compression. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015, 71, 798-804.	0.5	3
1956	Synthesis, Structure, and Pressure-Induced Polymerization of $\text{Li}_3\text{Fe}(\text{CN})_6$ Accompanied with Enhanced Conductivity. <i>Inorganic Chemistry</i> , 2015, 54, 11276-11282.	1.9	6
1957	Isostructural Phase Transition in Bismuth Oxide Chloride Induced by Redistribution of Charge under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27657-27665.	1.5	24
1958	Anomalous anisotropic compression behavior of superconducting CrAs under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14766-14770.	3.3	13
1959	High-pressure behavior and crystal–fluid interaction under extreme conditions in paulingite [PAU-topology]. <i>Microporous and Mesoporous Materials</i> , 2015, 206, 34-41.	2.2	9
1960	Behavior of decomposed ammonia borane at high pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 84, 75-79.	1.9	8
1961	High-pressure phase behavior of the room temperature ionic liquid 1-ethyl-3-methylimidazolium nitrate. <i>Journal of Molecular Liquids</i> , 2015, 206, 89-94.	2.3	18
1962	Pressure estimation using the “diamond Raman scale”™ at low pressures in diamond anvil cell experiments using a highly confocal Raman system. <i>Measurement Science and Technology</i> , 2015, 26, 025501.	1.4	4
1963	Study of the reaction products of SF_6 and C in the laser heated diamond anvil cell by pair distribution function analysis and micro-Raman spectroscopy. <i>Journal of Solid State Chemistry</i> , 2015, 225, 141-148.	1.4	4
1964	Mechanism of H_2O Insertion and Chemical Bond Formation in $\text{AlPO}_4-54\text{Å}$ - H_2O at High Pressure. <i>Journal of the American Chemical Society</i> , 2015, 137, 584-587.	6.6	24
1965	Nanoarchitected materials composed of fullerene-like spheroids and disordered graphene layers with tunable mechanical properties. <i>Nature Communications</i> , 2015, 6, 6212.	5.8	57
1966	Structural changes in thermoelectric SnSe at high pressures. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 072202.	0.7	56
1967	High-pressure Raman spectroscopy of Re_3N crystals. <i>Solid State Communications</i> , 2015, 201, 107-110.	0.9	12
1968	Conformational Conversion of 4,4'-Bipyridinium in a Hidden High-Pressure Phase. <i>Crystal Growth and Design</i> , 2015, 15, 764-770.	1.4	12
1969	Structural Analysis of Some High-Pressure Stable and Metastable Phases in Lithium Borohydride LiBH_4 . <i>Journal of Physical Chemistry C</i> , 2015, 119, 3911-3917.	1.5	8
1970	High-Pressure Crystallization and Structural Transformations in Compressed R_2S -Ibuprofen. <i>Crystal Growth and Design</i> , 2015, 15, 1512-1517.	1.4	28
1971	Pressure-Induced Reversible Phase Transformation in Nanostructured Bi_2Te_3 with Reduced Transition Pressure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3843-3848.	1.5	30
1972	Enhanced plasticity of silica glass at high pressure. <i>Physical Review B</i> , 2015, 91, .	1.1	28

#	ARTICLE	IF	CITATIONS
1973	High-pressure phases of SF ₆ up to 32GPa from X-ray diffraction and Raman spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 80, 11-21.	1.9	4
1974	Conventional empirical law reverses in the phase transitions of 122-type iron-based superconductors. <i>Scientific Reports</i> , 2014, 4, 7172.	1.6	16
1975	Pressure-Induced Conductivity and Yellow-to-Black Piezochromism in a Layered Cu ²⁺ /Cl Hybrid Perovskite. <i>Journal of the American Chemical Society</i> , 2015, 137, 1673-1678.	6.6	185
1976	Abnormal Elastic and Vibrational Behaviors of Magnetite at High Pressures. <i>Scientific Reports</i> , 2014, 4, 6282.	1.6	27
1977	Effects of pressure and/or magnetism on superconductivity of $\hat{\Gamma}$ -MoN single crystal. <i>Chinese Physics B</i> , 2015, 24, 017403.	0.7	1
1978	Exploring the pressure-temperature behaviour of crystalline and plastic crystalline phases of N-isopropylpropionamide. <i>CrystEngComm</i> , 2015, 17, 2562-2568.	1.3	1
1979	In situ high-pressure synchrotron X-ray powder diffraction study of tunnel manganese oxide minerals: hollandite, romanechite, and todorokite. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 405-411.	0.3	2
1980	Tetrahedrally coordinated carbonates in Earth's lower mantle. <i>Nature Communications</i> , 2015, 6, 6311.	5.8	55
1981	Thermal conductance of metal-diamond interfaces at high pressure. <i>Nature Communications</i> , 2015, 6, 6578.	5.8	146
1982	Charge Transfer Induced Multifunctional Transitions with Sensitive Pressure Manipulation in a Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2015, 54, 6433-6438.	1.9	49
1983	Opacity and conductivity measurements in noble gases at conditions of planetary and stellar interiors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7925-7930.	3.3	48
1984	Superconductivity emerging from a suppressed large magnetoresistant state in tungsten ditelluride. <i>Nature Communications</i> , 2015, 6, 7804.	5.8	290
1985	A flash heating method for measuring thermal conductivity at high pressure and temperature: Application to Pt. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 247, 17-26.	0.7	33
1986	A Protocol to Fabricate Nanostructured New Phase: B31-Type MnS Synthesized under High Pressure. <i>Journal of the American Chemical Society</i> , 2015, 137, 10297-10303.	6.6	67
1987	Dependence of R fluorescence lines of rubies on Cr ³⁺ concentration at various temperatures, with implications for pressure calibrations in experimental apparatus. <i>American Mineralogist</i> , 2015, 100, 1554-1561.	0.9	1
1988	Compressibility and crystal-fluid interactions in all-silica ferrierite at high pressure. <i>Microporous and Mesoporous Materials</i> , 2015, 218, 42-54.	2.2	20
1989	High-pressure study of azurite Cu ₃ (CO ₃) ₂ (OH) ₂ by synchrotron radiation X-ray diffraction and Raman spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 805-816.	0.3	11
1990	Elasticity of superhydrous phase B, seismic anomalies in cold slabs and implications for deep water transport. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 243, 30-43.	0.7	12

#	ARTICLE	IF	CITATIONS
1991	Hydrogenation of Graphene by Reaction at High Pressure and High Temperature. ACS Nano, 2015, 9, 8279-8283.	7.3	46
1992	Crystal structures and compressibility of novel iron borides Fe ₂ B ₇ and Fe ₅ B ₁₀ synthesized at high pressure and high temperature. Journal of Solid State Chemistry, 2015, 230, 102-109.	1.4	11
1993	New High-Pressure Polymorph of the Nonlinear Optical Crystal BaTeMo ₂ O ₉ . Crystal Growth and Design, 2015, 15, 3110-3113.	1.4	8
1994	High-pressure structural anomalies and electronic transitions in the topological Kondo insulator SmB ₆ . Europhysics Letters, 2015, 110, 66002.	0.7	9
1995	Negative Linear Compressibility in Organic Mineral Ammonium Oxalate Monohydrate with Hydrogen Bonding Wine-Rack Motifs. Journal of Physical Chemistry Letters, 2015, 6, 2755-2760.	2.1	46
1996	High-pressure equation of state and phase transition in PbAl ₂ Si ₂ O ₈ feldspar. American Mineralogist, 2015, 100, 1568-1577.	0.9	2
1997	Topotactic and reconstructive changes at high pressures and temperatures from Cs-natrolite to Cs-hexacelsian. American Mineralogist, 2015, 100, 1562-1567.	0.9	3
1998	The effect of high external pressure on the structure and stability of MOF $\text{[Mg}_3\text{(HCOO)}_6\text{]}_n$ probed by in situ Raman and FT-IR spectroscopy. Journal of Materials Chemistry A, 2015, 3, 11976-11984.	5.2	38
1999	Enforcing Multifunctionality: A Pressure-Induced Spin-Crossover Photomagnet. Journal of the American Chemical Society, 2015, 137, 8795-8802.	6.6	144
2000	Diagram of the Multiorbital Mott Insulator $P\tilde{a}T$ Physical Review Letters, 2015, 114, 166402.	2.9	8
2001	Elasticity of single-crystal olivine at high pressures and temperatures. Earth and Planetary Science Letters, 2015, 426, 204-215.	1.8	61
2002	Hydrate smaller than the anhydrate. CrystEngComm, 2015, 17, 5468-5473.	1.3	21
2003	Structural and magnetic transition in stainless steel Fe-21Cr-6Ni-9Mn up to 250 GPa. Chinese Physics B, 2015, 24, 066103.	0.7	3
2004	Measuring High-Pressure Electronic and Magnetic Properties. , 2015, , 313-349.		2
2005	Theory and Practice: Techniques for Measuring High-Pressure Elasticity. , 2015, , 293-312.		7
2006	Fast temperature spectrometer for samples under extreme conditions. Review of Scientific Instruments, 2015, 86, 013105.	0.6	12
2007	Pressure-Induced Phase Transformations of Zircon-Type LaVO ₄ Nanorods. Journal of Physical Chemistry C, 2015, 119, 8364-8372.	1.5	31
2008	Crystal Structure of Sinalite MgAlBO ₄ under High Pressure. Journal of Physical Chemistry C, 2015, 119, 6777-6784.	1.5	5

#	ARTICLE	IF	CITATIONS
2009	AlPO ₄ -54 \leftrightarrow AlPO ₄ -8 Structural Phase Transition and Amorphization under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7771-7779.	1.5	26
2010	Pressure confinement effect in MoS ₂ monolayers. <i>Nanoscale</i> , 2015, 7, 9075-9082.	2.8	56
2011	Pressure-dependent optical behaviors of colloidal CdSe nanoplatelets. <i>Nanoscale</i> , 2015, 7, 8835-8842.	2.8	20
2012	The equations of state of forsterite, wadsleyite, ringwoodite, akimotoite, MgSiO ₃ -perovskite, and postperovskite and phase diagram for the Mg ₂ SiO ₄ system at pressures of up to 130 GPa. <i>Russian Geology and Geophysics</i> , 2015, 56, 172-189.	0.3	28
2013	High-pressure structural phase transition in MnWO_4 . <i>Physical Review B</i> , 2015, 91, .		
2014	High-pressure stability of 1,1-diamino-2,2-dinitroethene (FOX-7): H/D isotope effect. <i>Chemical Physics Letters</i> , 2015, 624, 59-63.	1.2	10
2015	High-pressure phase transitions and compressibilities of aragonite-structure carbonates: SrCO ₃ and BaCO ₃ . <i>Physics and Chemistry of Minerals</i> , 2015, 42, 517-527.	0.3	33
2016	Single-crystal diffraction and Raman spectroscopy of hedenbergite up to 33 ÅGPa. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 595-608.	0.3	9
2017	PPMS-based set-up for Raman and luminescence spectroscopy at high magnetic field, high pressure and low temperature. <i>EPJ Techniques and Instrumentation</i> , 2015, 2, 3.	0.5	2
2018	Revised calibration of the Sm:SrB ₄ O ₇ pressure sensor using the Sm-doped yttrium-aluminum garnet primary pressure scale. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	36
2019	Plasma-assisted synthesis and pressure-induced structural transition of single-crystalline SnSe nanosheets. <i>Nanoscale</i> , 2015, 7, 10807-10816.	2.8	72
2020	The stability of hydrous silicates in Earth's lower mantle: Experimental constraints from the systems MgO \leftrightarrow SiO ₂ \leftrightarrow H ₂ O and MgO \leftrightarrow Al ₂ O ₃ \leftrightarrow SiO ₂ \leftrightarrow H ₂ O. <i>Chemical Geology</i> , 2015, 418, 16-29.	1.4	77
2021	Pressure induced structural transitions in CuSbS ₂ and CuSbSe ₂ thermoelectric compounds. <i>Journal of Alloys and Compounds</i> , 2015, 643, 186-194.	2.8	54
2022	A comparative study of high pressure behaviors of pyrochlore-type and thortveitite-type In ₂ Ge ₂ O ₇ . <i>RSC Advances</i> , 2015, 5, 44121-44127.	1.7	9
2023	Room-temperature vibrational properties of potassium gadolinium double tungstate under compression up to 32GPa. <i>Journal of Alloys and Compounds</i> , 2015, 638, 14-20.	2.8	20
2024	Thermal evolution of the metastable r8 and bc8 polymorphs of silicon. <i>High Pressure Research</i> , 2015, 35, 99-116.	0.4	26
2025	Compressibility of carbonophosphate bradleyite Na ₃ Mg(CO ₃)(PO ₄) by X-ray diffraction and Raman spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 191-201.	0.3	16
2026	Elastic behaviour and phase stability of pyrophyllite and talc at high pressure and temperature. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 309-318.	0.3	11

#	ARTICLE	IF	CITATIONS
2027	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9454-9464.	1.3	17
2028	Impact of hydrostatic pressure on the crystal structure and photoluminescence properties of Mn ⁴⁺ -doped BaTiF ₆ red phosphor. <i>Dalton Transactions</i> , 2015, 44, 7578-7585.	1.6	43
2029	Raman Spectroscopy Studies of Nanocrystalline Lead Zirconate Titanate as Functions of Particle Size and Pressure. <i>Spectroscopy Letters</i> , 2015, 48, 521-527.	0.5	4
2030	Exploring the high-pressure behavior of the three known polymorphs of BiPO ₄ : Discovery of a new polymorph. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	55
2031	Structural properties of ammonium iodide under high pressure. <i>RSC Advances</i> , 2015, 5, 40336-40340.	1.7	8
2032	Electronic Properties of BaFe ₂ As ₂ upon Doping and Pressure: The Prominent Role of the As Orbitals. <i>Physical Review Letters</i> , 2015, 114, 177001.	2.9	19
2033	Synthesis and high (pressure, temperature) stability of ZnTiO ₃ polymorphs studied by Raman spectroscopy. <i>Solid State Sciences</i> , 2015, 43, 53-58.	1.5	16
2034	Pressure induced separation of phase-transition-triggered-abrupt vs. gradual components of spin crossover. <i>Dalton Transactions</i> , 2015, 44, 20843-20849.	1.6	22
2035	Acoustic and elastic properties of silicone oil under high pressure. <i>RSC Advances</i> , 2015, 5, 38056-38060.	1.7	5
2036	Pressure-induced phase transition in hydrogen-bonded molecular crystal acetamide: combined Raman scattering and X-ray diffraction study. <i>RSC Advances</i> , 2015, 5, 84703-84710.	1.7	13
2037	Melting of MORB at core-mantle boundary. <i>Earth and Planetary Science Letters</i> , 2015, 431, 247-255.	1.8	62
2038	Revealing sub- $\frac{1}{4}$ μ m and $\frac{1}{2}$ μ m-scale textures in H ₂ O ice at megabar pressures by time-domain Brillouin scattering. <i>Scientific Reports</i> , 2015, 5, 9352.	1.6	33
2039	Single-crystal Brillouin spectroscopy with CO ₂ laser heating and variable q. <i>Review of Scientific Instruments</i> , 2015, 86, 063905.	0.6	18
2040	Pressure-induced structures of Si-doped HfO ₂ . <i>Journal of Applied Physics</i> , 2015, 117, 234102.	1.1	9
2041	Developments in time-resolved high pressure x-ray diffraction using rapid compression and decompression. <i>Review of Scientific Instruments</i> , 2015, 86, 072208.	0.6	32
2042	High pressure Laue diffraction and its application to study microstructural changes during the $\hat{1}\pm\hat{a}\dagger\hat{1}^2$ phase transition in Si. <i>Review of Scientific Instruments</i> , 2015, 86, 072204.	0.6	12
2043	High pressure study of B ₁₂ As ₂ : Electrical transport behavior and the role of grain boundaries. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	4
2044	Optical phonon modes in rhombohedral boron monosulfide under high pressure. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	13

#	ARTICLE	IF	CITATIONS
2045	Pressure-induced phase transitions and metallization in VO_2 . Physical Review B, 2015, 91, .	1.4	82
2046	Pressure-Modulated Conductivity, Carrier Density, and Mobility of Multilayered Tungsten Disulfide. ACS Nano, 2015, 9, 9117-9123.	7.3	120
2047	Structural phase transition of ternary dielectric SmGdO_3 : Evidence from angle dispersive x-ray diffraction and Raman spectroscopic studies. Journal of Applied Physics, 2015, 117, 094101.	1.1	9
2048	Origin of colossal magnetoresistance in LaMnO_3 manganite. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 10869-10872.	3.3	70
2049	High pressure Raman spectroscopy investigation on acetonitrile and acetonitrile-water mixture. RSC Advances, 2015, 5, 84216-84222.	1.7	12
2050	Correlation between intercalated magnetic layers and superconductivity in pressurized EuFe_2 ($\text{As}_{0.81}\text{P}_{0.19}$). Europhysics Letters, 2015, 111, 57007.	0.7	4
2051	Singularities in Molecular Conformation. Crystal Growth and Design, 2015, 15, 5530-5534.	1.4	1
2052	Equation of state and elasticity of the 3.65 Å... phase: Implications for the X-discontinuity. American Mineralogist, 2015, 100, 2199-2208.	0.9	17
2053	Chirality-dependent mechanical response of empty and water-filled single-wall carbon nanotubes at high pressure. Carbon, 2015, 95, 442-451.	5.4	40
2054	Cobalt ferrite nanoparticles under high pressure. Journal of Applied Physics, 2015, 118, .	1.1	44
2055	Pressure-Induced Phase Transformation, Reversible Amorphization, and Anomalous Visible Light Response in Organolead Bromide Perovskite. Journal of the American Chemical Society, 2015, 137, 11144-11149.	6.6	303
2056	New structure of high-pressure body-centered orthorhombic Fe_2SiO_4 . American Mineralogist, 2015, 100, 1736-1743.	0.9	7
2057	High-pressure behavior of cuprospinel CuFe_2O_4 : Influence of the Jahn-Teller effect on the spinel structure. American Mineralogist, 2015, 100, 1752-1761.	0.9	24
2058	Pressure-induced penetration of guest molecules in high-silica zeolites: the case of mordenite. Physical Chemistry Chemical Physics, 2015, 17, 24262-24274.	1.3	20
2059	Superconductivity in pressurized $\text{Rb}_{0.8}\text{Fe}_2\text{Se}_x\text{Te}_{1-x}$. New Journal of Physics, 2015, 17, 073021.	1.2	5
2060	Structural insights and elasticity of single-crystal antigorite from high-pressure Raman and Brillouin spectroscopy measured in the (010) plane. American Mineralogist, 2015, 100, 1932-1939.	0.9	11
2061	Determination of the full elastic tensor of single crystals using shear wave velocities by Brillouin spectroscopy. American Mineralogist, 2015, 100, 2590-2601.	0.9	10
2062	Temperature dependence of the velocity-density relation for liquid metals under high pressure: Implications for the Earth's outer core. American Mineralogist, 2015, 100, 2602-2609.	0.9	7

#	ARTICLE	IF	CITATIONS
2063	Competing hydrostatic compression mechanisms in nickel cyanide. <i>Physica B: Condensed Matter</i> , 2015, 479, 35-40.	1.3	4
2064	Comparative high pressure Raman studies on perfluorohexane and perfluoroheptane. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 247-256.	2.0	2
2065	High-pressure spectroscopic study of siderite (FeCO ₃) with a focus on spin crossover. <i>American Mineralogist</i> , 2015, 100, 2670-2681.	0.9	57
2066	Pressure-induced stiffness of Au nanoparticles to 71â€‰GPa under quasi-hydrostatic loading. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 485303.	0.7	14
2067	The MnCO ₃ -II high-pressure polymorph of rhodocrosite. <i>American Mineralogist</i> , 2015, 100, 2625-2629.	0.9	17
2068	Birnessite-Type MnO ₂ Nanosheets with Layered Structures Under High Pressure: Elimination of Crystalline Stacking Faults and Oriented Lamellar Assembly. <i>Small</i> , 2015, 11, 300-305.	5.2	41
2069	Pressure-Dependent Optical and Vibrational Properties of Monolayer Molybdenum Disulfide. <i>Nano Letters</i> , 2015, 15, 346-353.	4.5	284
2070	Elastic behavior and pressure-induced structural modifications of the microporous Ca(VO)Si ₄ O ₁₀ ·4H ₂ O dimorphs cavansite and pentagonite. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 257-268.	2.2	4
2071	Robust antiferromagnetism preventing superconductivity in pressurized (Ba _{0.61} K _{0.39})Mn ₂ Bi ₂ . <i>Scientific Reports</i> , 2015, 4, 7342.	1.6	5
2072	Crystal structure and high-pressure stability of hydrothermally grown LiKTmF ₅ . <i>Solid State Sciences</i> , 2015, 39, 40-44.	1.5	3
2073	A study on the Fermi resonance of phenol under the effects of pressure and temperature by Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1767-1774.	2.0	3
2074	Single-photon property characterization of 1.3â€‰µm emissions from InAs/GaAs quantum dots using silicon avalanche photodiodes. <i>Scientific Reports</i> , 2014, 4, 3633.	1.6	14
2075	Picosecond acoustics method for measuring the thermodynamical properties of solids and liquids at high pressure and high temperature. <i>Ultrasonics</i> , 2015, 56, 129-140.	2.1	24
2076	Elasticity of single-crystal quartz to 10â€‰GPa. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 203-212.	0.3	57
2077	High-pressure transformation in the cobalt spinel ferrites. <i>Journal of Solid State Chemistry</i> , 2015, 221, 173-177.	1.4	9
2078	Properties of Ti ₃ AlH ₆ and Ti ₃ AlD ₆ systems at high pressure studied by synchrotron X-ray diffraction analysis. <i>Journal of Alloys and Compounds</i> , 2015, 619, 78-81.	2.8	1
2079	Structural Transitions in Nanosized Zn _{0.97} Al _{0.03} O Powders under High Pressure Analyzed by in Situ Angle-Dispersive X-ray Diffraction. <i>Materials</i> , 2016, 9, 561.	1.3	4
2080	Evaluation Method for Thermal Conductivity in Warm Dense Matter by using Ruby Fluorescence Probe. <i>Journal of Physics: Conference Series</i> , 2016, 688, 012100.	0.3	2

#	ARTICLE	IF	CITATIONS
2081	High-energy X-ray focusing and high-pressure pair distribution function measurement. AIP Conference Proceedings, 2016, , .	0.3	0
2082	Pressure-induced phonon freezing in the ZnSeS IIâ€“VI mixed crystal: phononâ€™ polaritons and<i>ab initio</i> calculations. Journal of Physics Condensed Matter, 2016, 28, 205401.	0.7	6
2083	High<i>P</i>â€™T</i> Raman study of transitions in relaxor multiferroic Pb(Fe_{0.5}Nb_{0.5})O₃. Journal of Raman Spectroscopy, 2016, 47, 227-232.	1.2	7
2084	Near-forward/high-pressure-backward Raman study of Zn_{1â€™x} Be<i>x</i> Se (<i>x</i>â€™0.5) - evidence for percolation behavior of the long (Znâ€™Se) bond. Journal of Raman Spectroscopy, 2016, 47, 357-367.	1.2	5
2085	Structural changes in perylene from UV Raman spectroscopy up to 1 GPa. Journal of Raman Spectroscopy, 2016, 47, 720-725.	1.2	5
2086	Anomalous density and elastic properties of basalt at high pressure: Reevaluating of the effect of melt fraction on seismic velocity in the Earth's crust and upper mantle. Journal of Geophysical Research: Solid Earth, 2016, 121, 4232-4248.	1.4	29
2087	Phase Stability of Lanthanum Orthovanadate at High Pressure. Journal of Physical Chemistry C, 2016, 120, 13749-13762.	1.5	42
2088	Suppression of X-ray-induced dissociation of H2O molecules in dense ice under pressure. Scientific Reports, 2016, 6, 26641.	1.6	9
2089	Evidence of polymorphic transformations of Sn under high pressure. Chinese Physics B, 2016, 25, 120702.	0.7	9
2090	Elasticity of methane hydrate phases at high pressure. Journal of Chemical Physics, 2016, 144, 154501.	1.2	4
2091	Pressure-Induced Structural Evolution and Band Gap Shifts of Organometal Halide Perovskite-Based Methylammonium Lead Chloride. Journal of Physical Chemistry Letters, 2016, 7, 5273-5279.	2.1	120
2092	Dense Carbon Monoxide to 160 GPa: Stepwise Polymerization to Two-Dimensional Layered Solid. Journal of Physical Chemistry C, 2016, 120, 27548-27554.	1.5	22
2093	Phase Transitions and Polymerization of C₆H₆â€™C₆F₆ Cocrystal under Extreme Conditions. Journal of Physical Chemistry C, 2016, 120, 29510-29519.	1.5	25
2094	Behaviors of Zn₂ GeO₄ under high pressure and high temperature. Chinese Physics B, 2016, 25, 076101.	0.7	8
2095	Extending the single-crystal quartz pressure gauge up to hydrostatic pressure of 19â€™GPa. Journal of Applied Crystallography, 2016, 49, 2129-2137.	1.9	36
2096	Structural transitions in iron-based Ba₃NbFe₃Si₂O₁₄ langasite at high pressures. Europhysics Letters, 2016, 116, 66003.	0.7	1
2097	Sporopollenin, a Natural Copolymer, is Robust under High Hydrostatic Pressure. Macromolecular Chemistry and Physics, 2016, 217, 2494-2500.	1.1	19
2098	Effects of grinding-induced grain boundary and interfaces on electrical transportation and structure phase transition in ZnSe under high pressure. Chinese Physics B, 2016, 25, 066802.	0.7	0

#	ARTICLE	IF	CITATIONS
2099	Phase diagram of ammonium perchlorate: Raman spectroscopic constrains at high pressures and temperatures. <i>Journal of Chemical Physics</i> , 2016, 144, 244701.	1.2	9
2100	Vibrational and elastic properties of As ₄ O ₆ and As ₄ O ₆ ·2He at high pressures: Study of dynamical and mechanical stability. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	8
2101	Infrared study of ²⁹ SiO ₂ single crystal under high pressure. <i>Journal of Applied Physics</i> , 2016, 119, 055902.	1.1	1
2102	Pressure-induced Td to 1T structural phase transition in WTe ₂ . <i>AIP Advances</i> , 2016, 6, .	0.6	49
2103	High-energy X-ray focusing and applications to pair distribution function investigation of Pt and Au nanoparticles at high pressures. <i>Scientific Reports</i> , 2016, 6, 21434.	1.6	18
2104	Structural properties of Sb ₂ S ₃ under pressure: evidence of an electronic topological transition. <i>Scientific Reports</i> , 2016, 6, 24246.	1.6	73
2105	Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO ₂ (B) nanosheets. <i>Nature Communications</i> , 2016, 7, 12214.	5.8	47
2106	The influence of ionic strength on carbonate-based spectroscopic barometry for aqueous fluids: an in-situ Raman study on Na ₂ CO ₃ -NaCl solutions. <i>Scientific Reports</i> , 2016, 6, 39088.	1.6	8
2107	High-pressure stability and ambient metastability of marcasite-type rhodium pernitride. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	11
2108	Elastic softening in Fe ₇ C ₃ with implications for Earth's deep carbon reservoirs. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1514-1524.	1.4	27
2109	Correlation between superconductivity and bond angle of CrAs chain in non-centrosymmetric compounds A ₂ Cr ₃ As ₃ (A = K, Rb). <i>Scientific Reports</i> , 2016, 6, 37878.	1.6	19
2110	The determination of ionic transport properties at high pressures in a diamond anvil cell. <i>Review of Scientific Instruments</i> , 2016, 87, 123904.	0.6	25
2111	High-pressure compressibility and vibrational properties of (Ca,Mn)CO ₃ . <i>American Mineralogist</i> , 2016, 101, 2723-2730.	0.9	29
2112	Pressure-induced phase and chemical transformations of lithium peroxide (Li ₂ O ₂). <i>Journal of Chemical Physics</i> , 2016, 145, 084701.	1.2	3
2113	Kinetics of the B1-B2 phase transition in KCl under rapid compression. <i>Journal of Applied Physics</i> , 2016, 119, 045902.	1.1	14
2114	Pressure-induced structural transformation of CaC ₂ . <i>Journal of Chemical Physics</i> , 2016, 144, 194506.	1.2	5
2115	High-Pressure Reactivity of Triptycene Probed by Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11035-11042.	1.2	11
2116	Orthorhombic boron oxide under pressure: In situ study by X-ray diffraction and Raman scattering. <i>Journal of Applied Physics</i> , 2016, 120, 175901.	1.1	11

#	ARTICLE	IF	CITATIONS
2117	Raman spectroscopy of siderite at high pressure: Evidence for a sharp spin transition. American Mineralogist, 2016, 101, 2638-2644.	0.9	22
2118	Pressure-induced phase transitions in the CdC_2S_4 spinel. Physical Review B, 2016, 94, .	1.1	16
2119	Electrical resistance of single-crystal magnetite (Fe_3O_4) under quasi-hydrostatic pressures up to 100 GPa. Journal of Applied Physics, 2016, 119, .	1.1	15
2120	High pressure Raman spectroscopic studies of Pt(II) complex trans-PtCl ₂ (PEt ₃) ₂ . AIP Conference Proceedings, 2016, , .	0.3	1
2121	Pressure-induced Transformations of Dense Carbonyl Sulfide to Singly Bonded Amorphous Metallic Solid. Scientific Reports, 2016, 6, 31594.	1.6	2
2122	Note: High-pressure in situ x-ray laminography using diamond anvil cell. Review of Scientific Instruments, 2016, 87, 046105.	0.6	9
2123	Pressure-induced ferroelectric to paraelectric transition in LiTaO ₃ and (Li,Mg)TaO ₃ . Journal of Applied Physics, 2016, 119, .	1.1	8
2124	Elastic, magnetic and electronic properties of iridium phosphide Ir ₂ P. Scientific Reports, 2016, 6, 21787.	1.6	15
2125	Recovery of hexagonal Si-IV nanowires from extreme GPa pressure. Journal of Applied Physics, 2016, 119, 185902.	1.1	7
2126	High-Pressure-Hydrogen-Induced Spin Reconfiguration in GdFe ₂ Observed by ⁵⁷ Fe-Polarized Synchrotron Radiation Mössbauer Spectroscopy with Nuclear Bragg Monochromator. Journal of the Physical Society of Japan, 2016, 85, 123707.	0.7	2
2127	Effect of shear strength on Hugoniot-compression curve and the equation of state of tungsten (W). Journal of Applied Physics, 2016, 119, .	1.1	22
2128	Structural Phase Transitions and Metallized Phenomena in Arsenic Telluride under High Pressure. Inorganic Chemistry, 2016, 55, 3907-3914.	1.9	17
2129	Pressure-preferred symmetric reactions of 4,4'-bipyridine hydrobromide. CrystEngComm, 2016, 18, 3223-3228.	1.3	5
2130	Phase transformation and fluorescent enhancement of ErF ₃ at high pressure. Solid State Communications, 2016, 242, 30-35.	0.9	6
2131	Competition between Halogen and Hydrogen Bonds in Triiodoimidazole Polymorphs. Crystal Growth and Design, 2016, 16, 3869-3874.	1.4	21
2132	Elasticity and phase transformation at high pressure in coesite from experiments and first-principles calculations. American Mineralogist, 2016, 101, 1190-1196.	0.9	5
2133	Pressure-induced phase transformation in $\hat{1}^2$ -eucryptite: An X-ray diffraction and density functional theory study. Scripta Materialia, 2016, 122, 64-67.	2.6	10
2134	Phase transitions in the system CaCO ₃ at high P and T determined by in situ vibrational spectroscopy in diamond anvil cells and first-principles simulations. Physics and Chemistry of Minerals, 2016, 43, 545-561.	0.3	36

#	ARTICLE	IF	CITATIONS
2135	AlPO ₄₋₅ zeolite at high pressure: Crystal–fluid interaction and elastic behavior. <i>Microporous and Mesoporous Materials</i> , 2016, 228, 158-167.	2.2	22
2136	Structural, Vibrational, and Electronic Study of Sb ₂ S ₃ at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10547-10558.	1.5	73
2137	Raman spectroscopy of chibaite, natural MTN silica clathrate, at high pressure up to 8 GPa. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 100-106.	2.2	9
2138	The many phases of CaC ₂ . <i>Journal of Solid State Chemistry</i> , 2016, 239, 204-213.	1.4	14
2139	Pressure-dependent isotopic composition of iron alloys. <i>Science</i> , 2016, 352, 580-582.	6.0	68
2140	Giant strain geared to transformable H-bonded network in compressed β -mannose. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11474-11479.	1.3	14
2141	Pressure-enhanced Insulating State and Trigonal Distortion Relaxation in Geometrically Frustrated Pyrochlore Eu ₂ Sn ₂ O ₇ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 9436-9442.	1.5	25
2142	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO ₄ . <i>Inorganic Chemistry</i> , 2016, 55, 4958-4969.	1.9	60
2143	Two-stage spin transition of iron in FeAl-bearing phase D at lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6411-6420.	1.4	12
2144	Compressional behavior of omphacite to 47 GPa. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 707-715.	0.3	9
2145	Depth of formation of CaSiO ₃ -walsstromite included in super-deep diamonds. <i>Lithos</i> , 2016, 265, 138-147.	0.6	55
2146	How far away are accurate equations of state determinations? Some issues on pressure scales and non-hydrostaticity in diamond anvil cells. <i>Matter and Radiation at Extremes</i> , 2016, 1, 224-236.	1.5	6
2147	High-pressure synchrotron Mössbauer and X-ray diffraction studies: Exploring the structure-related valence fluctuation in EuNi ₂ P ₂ . <i>Physica B: Condensed Matter</i> , 2016, 501, 101-105.	1.3	4
2148	Investigation of the lattice behavior of cubic Y ₂ O ₃ /Eu ³⁺ nanotubes under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2204-2208.	0.7	3
2149	Pressure-driven superconductivity in the transition-metal pentatelluride HfTe_5 . <i>Physical Review B</i> , 2016, 94, .	1.1	46
2150	Pressure-Induced New Topological Weyl Semimetal Phase in TaAs. <i>Physical Review Letters</i> , 2016, 117, 146402.	2.9	66
2151	Pressure-induced spin crossover in disordered LiFeO_2 . <i>Physical Review B</i> , 2016, 94, .	1.1	7
2152	Polymorphism in Strontium Tungstate SrWO ₄ under Quasi-Hydrostatic Compression. <i>Inorganic Chemistry</i> , 2016, 55, 10406-10414.	1.9	25

#	ARTICLE	IF	CITATIONS
2153	Pressure-induced phase transitions of \hat{I}^2 -type pyrochlore CsTaWO_6 . RSC Advances, 2016, 6, 94287-94293.	1.7	11
2154	Intrusion-extrusion experiments of MgCl_2 aqueous solution in pure silica ferrierite: Evidence of the nature of intruded liquid by in situ high pressure synchrotron X-ray powder diffraction. Microporous and Mesoporous Materials, 2016, 235, 253-260.	2.2	25
2155	Compression of a multiphase mantle assemblage: Effects of undesirable stress and stress annealing on the iron spin state crossover in ferropericlase. Journal of Geophysical Research: Solid Earth, 2016, 121, 3377-3392.	1.4	17
2156	High-spin Fe^{2+} and Fe^{3+} in single-crystal aluminous bridgmanite in the lower mantle. Geophysical Research Letters, 2016, 43, 6952-6959.	1.5	23
2157	Hydrogen bond effects on compressional behavior of isotopic minerals: high-pressure polymorphism of cristobalite-like $\text{Be}(\text{OH})_2$. Physics and Chemistry of Minerals, 2016, 43, 571-586.	0.3	3
2158	Pressure-induced metastable phase transformations of calcium metasilicate (CaSiO_3): A Raman spectroscopic study. Materials Chemistry and Physics, 2016, 182, 508-519.	2.0	4
2159	Crystal structure and transporting properties of Bi_2S_3 under high pressure: Experimental and theoretical studies. Journal of Alloys and Compounds, 2016, 688, 329-335.	2.8	36
2160	Structural, Vibrational, and Electronic Study of $\hat{I}^\pm\text{-As}_2\text{Te}_3$ under Compression. Journal of Physical Chemistry C, 2016, 120, 19340-19352.	1.5	37
2161	High-pressure compressibility and thermal expansion of aragonite. American Mineralogist, 2016, 101, 1651-1658.	0.9	30
2162	High pressure \hat{I}^3 -to- \hat{I}^2 phase transition in bulk and nanocrystalline In_2Se_3 . High Pressure Research, 2016, 36, 549-556.	0.4	4
2163	High refractive index immersion liquid for superresolution 3D imaging using sapphire-based aplanatic numerical aperture increasing lens optics. Applied Optics, 2016, 55, 3165.	0.9	11
2164	Single-crystal elasticity of natural Fe^\pm -bearing orthoenstatite across a high-pressure phase transition. Geophysical Research Letters, 2016, 43, 8473-8481.	1.5	18
2165	Electronic wave functions and optical transitions in $(\text{In,Ga})\text{As}/\text{GaP}$ quantum dots. Physical Review B, 2016, 94, .	1.1	10
2166	Beryl-II, a high-pressure phase of beryl: Raman and luminescence spectroscopy to 16.4 GPa. Physics and Chemistry of Minerals, 2016, 43, 671-687.	0.3	15
2167	High-pressure behavior of natural single-crystal epidote and clinozoisite up to 40 GPa. Physics and Chemistry of Minerals, 2016, 43, 649-659.	0.3	16
2168	Elasticity of single-crystal NAL phase at high pressure: A potential source of the seismic anisotropy in the lower mantle. Journal of Geophysical Research: Solid Earth, 2016, 121, 5696-5707.	1.4	7
2169	Contrasted effect of aluminum on the serpentinization rate of olivine and orthopyroxene under hydrothermal conditions. Chemical Geology, 2016, 441, 256-264.	1.4	18
2170	High-temperature and high-pressure behavior of carbonates in the ternary diagram CaCO_3 - MgCO_3 - FeCO_3 . American Mineralogist, 2016, 101, 1423-1430.	0.9	22

#	ARTICLE	IF	CITATIONS
2171	NMR spectroscopy of some electrolyte solutions to 1.9 GPa. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 193, 66-74.	1.6	6
2172	Ultrahard stitching of nanotwinned diamond and cubic boron nitride in C2-BN composite. <i>Scientific Reports</i> , 2016, 6, 30518.	1.6	24
2173	Constant real-space fractal dimensionality and structure evolution in $T_{iC_6}u_{38}$. <i>Physical Review B</i> , 2016, 93, .	1.1	8
2174	High-pressure optical study of small-diameter chirality-enriched single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2446-2450.	0.7	5
2175	Structural Phase Transitions of ZnTe under High Pressure Using Experiments and Calculations. <i>Chinese Physics Letters</i> , 2016, 33, 096104.	1.3	7
2176	Competing Jahn-Teller distortions and hydrostatic pressure effects in the quasi-one-dimensional quantum ferromagnet $CuAsO_4$. <i>Physical Review B</i> , 2016, 93, .	1.1	8
2177	$Cd_2Re_2O_7$ under high pressure: Pyrochlore lattice distortion-driven metal-to-nonmetal transition. <i>Physical Review B</i> , 2016, 93, .	1.1	8
2178	Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor $InTaO_4$. <i>Physical Review B</i> , 2016, 93, .	1.1	39
2179	Dynamic compression of copper to over 450 GPa: A high-pressure standard. <i>Physical Review B</i> , 2016, 93, .	1.1	50
2180	Structural transition in the magnetoelectric $ZnCr_2S_4$. <i>Physical Review B</i> , 2016, 93, .	1.1	16
2181	Emergent ferromagnetism and linear scattering in USb_2 at high pressure. <i>Physical Review B</i> , 2016, 93, .	1.1	17
2182	Pressure effects on model ferroelectric $BiFeO_3$. Multiple phase transitions. <i>Physical Review B</i> , 2016, 93, .	1.1	7
2183	Influence of the critical Fe atomic volume on the magnetism of Fe-rich metallic glasses evidenced by pressure-dependent measurements. <i>Physical Review B</i> , 2016, 93, .	1.1	7
2184	Atomic ordering in cubic bismuth telluride alloy phases at high pressure. <i>Physical Review B</i> , 2016, 93, .	1.1	13
2185	$B_{iC_3}O_3$ under compression: Optical and elastic properties and electron density topology analysis. <i>Physical Review B</i> , 2016, 93, .	1.1	16
2186	Optical Properties of Fluid Hydrogen at the Transition to a Conducting State. <i>Physical Review Letters</i> , 2016, 116, 255501.	2.9	74
2187	Structure and magnetism of cobalt at high pressure and low temperature. <i>Physical Review B</i> , 2016, 94, .	1.1	18
2188	Electronic transitions of iron in almandine-composition glass to 91 GPa. <i>American Mineralogist</i> , 2016, 101, 1659-1667.	0.9	9

#	ARTICLE	IF	CITATIONS
2189	Impact of the Metal Centre and Functionalization on the Mechanical Behaviour of MIL-53 Metal-Organic Frameworks. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4424-4429.	1.0	60
2190	Pressure-Dependent Structural and Chemical Changes in a Metal-Organic Framework with One-Dimensional Pore Structure. <i>Chemistry of Materials</i> , 2016, 28, 5336-5341.	3.2	25
2191	High Pressure Experimental Studies on CuO: Indication of Re-entrant Multiferroicity at Room Temperature. <i>Scientific Reports</i> , 2016, 6, 31610.	1.6	30
2192	Phase transition induced strain in ZnO under high pressure. <i>Scientific Reports</i> , 2016, 6, 24958.	1.6	13
2193	Pressure-Driven Cooperative Spin-Crossover, Large-Volume Collapse, and Semiconductor-to-Metal Transition in Manganese(II) Honeycomb Lattices. <i>Journal of the American Chemical Society</i> , 2016, 138, 15751-15757.	6.6	91
2194	Suppression of superconductivity and structural phase transitions under pressure in tetragonal FeS. <i>Scientific Reports</i> , 2016, 6, 31077.	1.6	14
2195	Superconductivity in Weyl semimetal candidate MoTe ₂ . <i>Nature Communications</i> , 2016, 7, 11038.	5.8	611
2196	Pressure-induced preference for solvation of 5,6-dimethylbenzimidazole. <i>CrystEngComm</i> , 2016, 18, 3211-3215.	1.3	5
2197	Structural, vibrational, and electronic properties of BaReH ₉ under pressure. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 505701.	0.7	2
2198	Monazite-type SrCrO_4 under compression. <i>Physical Review B</i> , 2016, 94, .	1.1	30
2199	Interlayer Coupling Affected Structural Stability in Ultrathin MoS ₂ : An Investigation by High Pressure Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24992-24998.	1.5	29
2200	Exploring the Chemical Reactivity between Carbon Dioxide and Three Transition Metals (Au, Pt, and Re) at High-Pressure, High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2016, 55, 10793-10799.	1.9	21
2201	High-pressure phase of LaPO_4 by x-ray diffraction and second harmonic generation. <i>Physical Review B</i> , 2016, 94, .	1.1	21
2202	Pressure-Induced Polymerization of $\text{LiN}(\text{CN})_2$. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9370-9377.	1.1	15
2203	Effects of Molecular Geometry on the Properties of Compressed Diamondoid Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4641-4647.	2.1	12
2204	Methodological evolutions of Raman spectroscopy in art and archaeology. <i>Analytical Methods</i> , 2016, 8, 8395-8409.	1.3	70
2205	An alternative method for pair distribution function (PDF) determination from complex environments. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	0
2206	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6540-6544.	7.2	157

#	ARTICLE	IF	CITATIONS
2207	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie</i> , 2016, 128, 6650-6654.	1.6	24
2208	Structural properties of pressure-induced structural phase transition of Si-doped GaAs by angular-dispersive X-ray diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	3
2209	A Cr ³⁺ luminescence study of spodumene at high pressures: Effects of site geometry, a phase transition, and a level-crossing. <i>American Mineralogist</i> , 2016, 101, 1406-1413.	0.9	15
2210	Effect of pressure on electronic and thermoelectric properties of magnesium silicide: A density functional theory study. <i>Chinese Physics B</i> , 2016, 25, 056401.	0.7	19
2211	Structural and electrical study of the topological insulator SnBi ₂ Te ₄ at high pressure. <i>Journal of Alloys and Compounds</i> , 2016, 685, 962-970.	2.8	28
2212	High-Pressure Preference for the Low <i>Z</i> ² Polymorph of a Molecular Crystal. <i>Crystal Growth and Design</i> , 2016, 16, 3947-3953.	1.4	22
2213	High-pressure behaviour of Cs ₂ V ₃ O ₈ fresnoite. <i>Journal of Solid State Chemistry</i> , 2016, 238, 252-258.	1.4	4
2214	New high-pressure/low-temperature set-up available at the AILES beamline. <i>Vibrational Spectroscopy</i> , 2016, 86, 17-23.	1.2	25
2215	In-situ high-pressure Raman scattering studies in PbWO ₄ up to 48 GPa. <i>Journal of Alloys and Compounds</i> , 2016, 667, 36-43.	2.8	6
2216	High-pressure polymorphism of the electrochemically active organic molecule tetrahydroxy-p-benzoquinone. <i>Journal of Molecular Structure</i> , 2016, 1119, 71-77.	1.8	1
2217	Temperature of Earth's core constrained from melting of Fe and Fe _{0.9} Ni _{0.1} at high pressures. <i>Earth and Planetary Science Letters</i> , 2016, 447, 72-83.	1.8	55
2218	Pressure-induced electron phase transitions of $\hat{1}\pm$ -As ₂ Te ₃ . <i>Journal of Alloys and Compounds</i> , 2016, 685, 551-558.	2.8	13
2219	Pressure-Induced Insertion of Ammonia Borane in the Siliceous Zeolite, Silicalite-1F. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9334-9340.	1.5	17
2220	Sound velocities of bridgmanite from density of states determined by nuclear inelastic scattering and first-principles calculations. <i>Progress in Earth and Planetary Science</i> , 2016, 3, .	1.1	6
2221	High Pressure Structural Investigation of Benzoic Acid: Raman Spectroscopy and X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14758-14766.	1.5	60
2222	Nanocrystals in compression: unexpected structural phase transition and amorphization due to surface impurities. <i>Nanoscale</i> , 2016, 8, 11803-11809.	2.8	10
2223	Fluorescence mutation and structural evolution of a π -conjugated molecular crystal during phase transition. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1257-1262.	2.7	58
2224	Cu ₃ TaSe ₄ and Cu ₃ NbSe ₄ : X-ray diffraction, differential thermal analysis, optical absorption and Raman scattering. <i>Journal of Alloys and Compounds</i> , 2016, 658, 749-756.	2.8	21

#	ARTICLE	IF	CITATIONS
2225	High pressure behaviour and elastic properties of a dense inorganic-organic framework. Dalton Transactions, 2016, 45, 4303-4308.	1.6	26
2226	Spin transition of ferric iron in the NAL phase: Implications for the seismic heterogeneities of subducted slabs in the lower mantle. Earth and Planetary Science Letters, 2016, 434, 91-100.	1.8	30
2227	Carbon Nanotubes Under Pressure. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 99-134.	0.3	0
2228	PRESSURE EFFECTS IN POLYCYCLIC AROMATIC NITROGENATED HETEROCYCLES (PANHs): DIAGNOSTIC QUALITIES AND COSMOBAROMETRY POTENTIAL. Astrophysical Journal, 2016, 819, 64.	1.6	1
2229	Shear-Induced Isostructural Phase Transition and Metallization of Layered Tungsten Disulfide under Nonhydrostatic Compression. Journal of Physical Chemistry C, 2016, 120, 5101-5107.	1.5	42
2230	Pressure-induced non-superconducting phase of $\text{Na}_{0.33}\text{V}_2\text{O}_5$ and the mechanism of high-pressure phase transitions in $\text{Na}_{0.33}\text{V}_2\text{O}_5$ and $\text{Li}_{0.33}\text{V}_2\text{O}_5$ at room temperature. Journal of Physics Condensed Matter, 2016, 28, 035401.	0.7	3
2231	Pressure-induced polymorphism in nanostructured SnSe. Journal of Applied Crystallography, 2016, 49, 213-221.	1.9	20
2232	High-pressure phase transition makes $\text{B}_{4.3}\text{C}$ boron carbide a wide-gap semiconductor. Journal of Physics Condensed Matter, 2016, 28, 045403.	0.7	35
2233	Local Lattice Distortions in $\text{Mn}[\text{N}(\text{CN})_2]_2$ under Pressure. Inorganic Chemistry, 2016, 55, 1956-1961.	1.9	13
2234	Bulk sensitive determination of the $\text{Fe}^{3+}/\text{Fe}^{\text{Tot}}$ -ratio in minerals by $\text{Fe}_{L_{2/3}}$ -edge X-ray Raman scattering. Journal of Analytical Atomic Spectrometry, 2016, 31, 815-820.	1.6	9
2235	Behaviour at high pressure of $\text{Rb}_7\text{NaGa}_8\text{Si}_{12}\text{O}_{40}\cdot 3\text{H}_2\text{O}$ (a zeolite with EDI topology): a combined experimental-computational study. Physics and Chemistry of Minerals, 2016, 43, 209-216.	0.3	12
2236	Pressure-induced superconductivity in a three-dimensional topological material ZrTe_5 . Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2904-2909.	3.3	124
2237	High-pressure and high-temperature transformation of $\text{Pb}(\text{II})$ -natrolite to $\text{Pb}(\text{II})$ -lawsonite. Dalton Transactions, 2016, 45, 1622-1630.	1.6	5
2238	Crystal growth in gelled solution: applications to coordination polymers. CrystEngComm, 2016, 18, 2455-2462.	1.3	16
2239	High pressure used for producing a new solvate of 1,4-diazabicyclo[2.2.2]octane hydroiodide. New Journal of Chemistry, 2016, 40, 2014-2020.	1.4	5
2240	Pressure-induced structural transition of $\text{Y}_2\text{Zr}_2\text{O}_7$. Journal of Alloys and Compounds, 2016, 660, 446-449.	2.8	19
2241	Significance of Bundling Effects on Carbon Nanotubes™ Response to Hydrostatic Compression. Journal of Physical Chemistry C, 2016, 120, 1863-1870.	1.5	3
2242	Pressure-induced amorphization of $\text{YVO}_4\text{:Eu}^{3+}$ nanoboxes. Nanotechnology, 2016, 27, 025701.	1.3	19

#	ARTICLE	IF	CITATIONS
2243	Pressure-induced phase transformations of PbCO ₃ by X-ray diffraction and Raman spectroscopy. <i>High Pressure Research</i> , 2016, 36, 1-15.	0.4	18
2244	Successive disorder to disorder phase transitions in ionic liquid [HMIM][BF ₄] under high pressure. <i>Journal of Molecular Structure</i> , 2016, 1106, 70-75.	1.8	11
2245	Vibrational spectra of four polycyclic aromatic hydrocarbons under high pressure: implications for stabilities of PAHs during accretion. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 181-208.	0.3	16
2246	Mechanical energy storage performance of an aluminum fumarate metal-organic framework. <i>Chemical Science</i> , 2016, 7, 446-450.	3.7	103
2247	Deformation behavior of titanate nanotubes subjected to high pressure. <i>Journal of Applied Physics</i> , 2017, 121, 025902.	1.1	5
2248	X-ray diffraction and spectroscopy study of nano-Eu ₂ O ₃ structural transformation under high pressure. <i>Journal of Alloys and Compounds</i> , 2017, 701, 542-548.	2.8	18
2249	A metastable liquid melted from a crystalline solid under decompression. <i>Nature Communications</i> , 2017, 8, 14260.	5.8	26
2250	Direct tomography imaging for inelastic X-ray scattering experiments at high pressure. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 269-275.	1.0	23
2251	Giant Anomalous Strain between High-Pressure Phases and the Mesomers of Urea. <i>Journal of Physical Chemistry C</i> , 2017, 121, 778-784.	1.5	24
2252	Structural phase transitions of (Bi _{1-x} Sb _x) ₂ (Te _{1-y} Se _y) ₃ compounds under high pressure and the influence of the atomic radius on the compression processes of tetradymites. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 2207-2216.	1.3	18
2253	Structural transitions of ordered kesterite-type Cu ₂ ZnSnS ₄ under pressure. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	12
2254	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO ₄ and TmPO ₄ . <i>Journal of Physics Condensed Matter</i> , 2017, 29, 095401.	0.7	43
2255	Equation of state and hyperfine parameters of high-spin bridgmanite in the Earth's lower mantle by synchrotron X-ray diffraction and Mössbauer spectroscopy. <i>American Mineralogist</i> , 2017, 102, 357-368.	0.9	26
2256	Colossal Strain Release by Conformational Energy Up-Conversion in a Compressed Molecular Crystal. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2539-2545.	1.5	19
2257	Observation of the Wigner-Huntington transition to metallic hydrogen. <i>Science</i> , 2017, 355, 715-718.	6.0	438
2258	High mechanical strength in Zn ₄ B ₆ O ₁₃ with an unique sodalite-cage structure. <i>RSC Advances</i> , 2017, 7, 2038-2043.	1.7	7
2259	P-V-T equation of state of CaCO ₃ aragonite to 29 GPa and 1673 K: In situ X-ray diffraction study. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 265, 82-91.	0.7	48
2260	Iron isotopic fractionation between silicate mantle and metallic core at high pressure. <i>Nature Communications</i> , 2017, 8, 14377.	5.8	34

#	ARTICLE	IF	CITATIONS
2261	Structural and conformational properties of 1-decyl-3-methylimidazolium tetrafluoroborate under high pressure. Journal of Molecular Structure, 2017, 1137, 610-614.	1.8	7
2262	High-pressure behavior and P -induced phase transition of $\text{CaB}_3\text{O}_4(\text{OH})_3 \cdot \text{H}_2\text{O}$ (colemanite). Journal of the American Ceramic Society, 2017, 100, 2209-2220.	1.9	16
2263	A Novel High-Density Phase and Amorphization of Nitrogen-Rich 1H-Tetrazole (CH_2N_4) under High Pressure. Scientific Reports, 2017, 7, 39249.	1.6	12
2264	Abnormal Elasticity of Single-Crystal Magnesiosiderite across the Spin Transition in Earth's Lower Mantle. Physical Review Letters, 2017, 118, 036402.	2.9	34
2265	High-pressure optical spectroscopy study of natural siderite. Physics and Chemistry of Minerals, 2017, 44, 537-546.	0.3	8
2266	Pressure-induced structural evaluation and insulator-metal transition in the mixed spinel ferrite $Z_n\text{M}_{1-n}\text{O}_{0.8}$. $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle Z \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle n \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.2 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle M \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle n \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 0.8 \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle$	1.1	21
2267	Enhanced Ferroelectric and Visible-Light Photoelectric Properties in Multiferroic KBiFe_2O_5 via Pressure-Induced Phase Transition. Advanced Electronic Materials, 2017, 3, 1600498.	2.6	34
2268	High-Pressure Phase Transition, Pore Collapse, and Amorphization in the Siliceous 1D Zeolite, TON. Journal of Physical Chemistry C, 2017, 121, 4283-4292.	1.5	20
2269	Topological Quantum Phase Transition and Superconductivity Induced by Pressure in the Bismuth Tellurohalide BiTeI . Advanced Materials, 2017, 29, 1605965.	11.1	51
2270	Phase coexistence and pressure-temperature phase evolution of VO_2 nanorods near the semiconductor-semiconductor transition. Physical Review B, 2017, 95, .	1.1	6
2271	A study of the phase transitions, electronic structures and thermodynamic properties of Mg_2X ($\text{X} = \text{Ge, Si and Sn}$) under high pressure. Journal of Science: Advanced Materials and Devices, 2017, 2, 105-114.	1.5	5
2272	Pressure-Induced Photoluminescence Adjustment and Lattice Disorder in Monolayer WSe_2 . ChemNanoMat, 2017, 3, 238-244.	1.5	9
2273	Piezochromic Topology Switch in a Coordination Polymer. Journal of Physical Chemistry Letters, 2017, 8, 929-935.	2.1	30
2274	Tuning the electronic and vibrational properties of $\text{Sn}_2\text{P}_2\text{Se}_6$ and $\text{Pb}_2\text{P}_2\text{S}_6$ crystals and their metallization under high pressure. Dalton Transactions, 2017, 46, 4245-4258.	1.6	17
2275	Pressure Effects on Crystallization, Polymorphism, and Solvation of 4,4'-Bipyridinium Perchlorate. Crystal Growth and Design, 2017, 17, 3134-3141.	1.4	8
2276	Double Fermi resonance: High pressure Raman investigations on hexachloroethane. Vibrational Spectroscopy, 2017, 90, 63-68.	1.2	1
2277	Compressibility and high-pressure structural behavior of $\text{Mg}_2\text{Fe}_2\text{O}_5$. American Mineralogist, 2017, 102, 845-850.	0.9	6
2278	The new structure transition sequences of cerium around 5 GPa. Journal of Alloys and Compounds, 2017, 712, 588-592.	2.8	2

#	ARTICLE	IF	CITATIONS
2279	Pressure-Temperature Phase Diagram Reveals Spin-Lattice Interactions in $\text{Co}[\text{N}(\text{CN})_2]_2$. <i>Inorganic Chemistry</i> , 2017, 56, 4950-4955.	1.9	3
2280	Structure and bulk modulus of Ln-doped UO_2 (Ln = La, Nd) at high pressure. <i>Journal of Nuclear Materials</i> , 2017, 490, 28-33.	1.3	11
2281	Anomalous Surface Doping Effect in Semiconductor Nanowires. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11824-11830.	1.5	6
2282	Pressure-induced phase transitions of vaterite, a metastable phase of CaCO_3 . <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1449-1453.	1.2	19
2283	Highly Coordinated Iron and Cobalt Nitrides Synthesized at High Pressures and High Temperatures. <i>Inorganic Chemistry</i> , 2017, 56, 6410-6418.	1.9	61
2284	Pressure compression of CdSe nanoparticles into luminescent nanowires. <i>Science Advances</i> , 2017, 3, e1602916.	4.7	66
2285	Raman studies in tetragonal structure PbTeO_3 . <i>Solid State Communications</i> , 2017, 260, 1-5.	0.9	0
2286	Pressure-induced electronic topological transitions in the charge-density-wave material In_4Se_3 . <i>Journal of Alloys and Compounds</i> , 2017, 715, 237-241.	2.8	5
2287	Phase diagram of carbonyl sulfide: An analogy to carbon dioxide and carbon disulfide. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 05FA04.	0.8	2
2288	Tilting of semi-rigid GaF_6 octahedra in GaF_3 at high pressures. <i>Powder Diffraction</i> , 2017, 32, S69-S73.	0.4	0
2289	Pressure-induced iso-structural phase transition and metallization in WSe_2 . <i>Scientific Reports</i> , 2017, 7, 46694.	1.6	50
2290	Combined high-pressure and high-temperature vibrational studies of dolomite: phase diagram and evidence of a new distorted modification. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 465-476.	0.3	26
2291	High-pressure Raman spectroscopy of $\text{Ca}(\text{Mg},\text{Co})\text{Si}_2\text{O}_6$ and $\text{Ca}(\text{Mg},\text{Co})\text{Ge}_2\text{O}_6$ clinopyroxenes. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1443-1448.	1.2	13
2292	Hardness and compression behavior of niobium carbide. <i>High Pressure Research</i> , 2017, 37, 244-255.	0.4	8
2293	High-pressure phase behavior of SrCO_3 : an experimental and computational Raman scattering study. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 335-343.	0.3	21
2294	Biaxial Strain Transfer in Supported Graphene. <i>Nano Letters</i> , 2017, 17, 21-27.	4.5	46
2295	Pressure Dependence of Mixed Conduction and Photo Responsiveness in Organolead Tribromide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 2944-2950.	2.1	33
2296	Pressure effects on β -synuclein amyloid fibrils: An experimental investigation on their dissociation and reversible nature. <i>Archives of Biochemistry and Biophysics</i> , 2017, 627, 46-55.	1.4	11

#	ARTICLE	IF	CITATIONS
2297	Structural stability of ultra-high temperature refractory material MoSi ₂ and Mo ₅ Si ₃ under high pressure. Chinese Physics B, 2017, 26, 053101.	0.7	11
2298	Structural stability and phase transition of Bi ₂ Te ₃ under high pressure and low temperature. Physica B: Condensed Matter, 2017, 521, 13-16.	1.3	6
2299	Miniature diamond anvils for X-ray Raman scattering spectroscopy experiments at high pressure. Journal of Synchrotron Radiation, 2017, 24, 276-282.	1.0	15
2300	Structural and Magnetic Transitions in CaCo ₃ V ₄ O ₁₂ Perovskite at Extreme Conditions. Inorganic Chemistry, 2017, 56, 6251-6263.	1.9	12
2301	Delocalization in Cr ³⁺ luminescence of clinocllore: A pressure-induced transition from single-ion emission to pair emission. Journal of Physics and Chemistry of Solids, 2017, 109, 89-99.	1.9	4
2302	Experimental constraints on melting temperatures in the MgO–SiO ₂ system at lower mantle pressures. Earth and Planetary Science Letters, 2017, 472, 186-196.	1.8	22
2303	Structure determination of the high-pressure phases of topological insulator Bi ₂ Se ₃ using experiments and calculations. Journal of Applied Physics, 2017, 121, .	1.1	16
2304	Pressure and Temperature Study on the Structural Stability of GdNbO ₄ :Eu ³⁺ . Journal of Physical Chemistry C, 2017, 121, 14787-14794.	1.5	25
2305	Metallization and Electrical Transport Behaviors of GaSb under High-Pressure. Scientific Reports, 2017, 7, 2656.	1.6	9
2306	Thermal Diffusivity of Methanol to a Pressure of 5 GPa. Journal of Chemical & Engineering Data, 2017, 62, 2128-2131.	1.0	1
2307	Compressed few-layer black phosphorus nanosheets from semiconducting to metallic transition with the highest symmetry. Nanoscale, 2017, 9, 10741-10749.	2.8	16
2308	Compressional pathways of β -cristobalite, structure of cristobalite X-I, and towards the understanding of seifertite formation. Nature Communications, 2017, 8, 15647.	5.8	33
2309	Compressed glassy carbon: An ultrastrong and elastic interpenetrating graphene network. Science Advances, 2017, 3, e1603213.	4.7	110
2310	Structural evolution behavior of manganese monophosphide under high pressure: experimental and theoretical study. Journal of Physics Condensed Matter, 2017, 29, 254002.	0.7	4
2311	High pressure infrared spectroscopy of Pt(II) complex cis-PtCl ₂ (PEt ₃) ₂ . AIP Conference Proceedings, 2017, . .	0.3	0
2312	Reversible Photochemical Transformation of S and H ₂ Mixture to (H ₂ S) ₂ H ₂ at High Pressures. Journal of Physical Chemistry C, 2017, 121, 12863-12870.	1.5	6
2313	Pressure-induced metallization in Mg ₂ Si. Journal Physics D: Applied Physics, 2017, 50, 235304.	1.3	2
2314	Pressure-induced structural change in liquid GaIn eutectic alloy. Scientific Reports, 2017, 7, 1139.	1.6	17

#	ARTICLE	IF	CITATIONS
2315	Upconverting Nanoparticles as Optical Sensors of Nano- to Micro-Newton Forces. <i>Nano Letters</i> , 2017, 17, 4172-4177.	4.5	71
2316	Effect of temperature on the pressure-induced spin transition in siderite and iron-bearing magnesite: a Raman spectroscopy study. <i>European Journal of Mineralogy</i> , 2017, 29, 785-793.	0.4	15
2317	High pressure x-ray diffraction studies of the nanostructured Ge ₃₄ Sb ₆₆ solid solution produced by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2017, 722, 131-137.	2.8	6
2318	Anomalous phase transition of Bi-doped Zn ₂ GeO ₄ investigated by electrical conductivity and Raman spectroscopy under high pressure. <i>Journal of Applied Physics</i> , 2017, 121, 125901.	1.1	12
2319	Stability of the fergusonite phase in GdNbO ₄ by high pressure XRD and Raman experiments. <i>Journal of Solid State Chemistry</i> , 2017, 251, 14-18.	1.4	22
2320	Piezochromic Carbon Dots with Two-photon Fluorescence. <i>Angewandte Chemie</i> , 2017, 129, 6283-6287.	1.6	64
2321	Piezochromic Carbon Dots with Two-photon Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6187-6191.	7.2	223
2322	Phonons in Si_{24} at simultaneously elevated temperature and pressure. <i>Physical Review B</i> , 2017, 95, .	1.1	33
2323	Thermodynamics and Equations of State of Iron to 350 GPa and 6000 K. <i>Scientific Reports</i> , 2017, 7, 418686		66
2324	Pressure-induced metallization and superconducting phase in ReS ₂ . <i>Npj Quantum Materials</i> , 2017, 2, .	1.8	53
2325	Pressure-Stabilized Tin Selenide Phase with an Unexpected Stoichiometry and a Predicted Superconducting State at Low Temperatures. <i>Physical Review Letters</i> , 2017, 118, 137002.	2.9	29
2326	The structure and unconventional dihydrogen bonding of a pressure-stabilized hydrogen-rich (NH ₃ BH ₃)(H ₂) _x (x = 1.5) compound. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7111-7117.	5.2	4
2327	Anomalous Compressibility and Amorphization in AlPO ₄ -17, the Oxide with the Highest Negative Thermal Expansion. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6852-6863.	1.5	13
2328	Pressure-induced disordering and phase transformations in Eu ₂ Zr ₂ O ₇ pyrochlore. <i>High Pressure Research</i> , 2017, 37, 256-266.	0.4	9
2329	High Pressure Synthesis and Preparation of Inorganic Materials. , 2017, , 105-141.		5
2330	High-pressure behavior of A ₂ B ₂ O ₇ pyrochlore (A=Eu, Dy; B=Ti, Zr). <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	42
2331	A new high-pressure phase transition in clinoferrosilite: In situ single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2017, 102, 666-673.	0.9	9
2332	Negative Linear Compressibility Due to Layer Sliding in a Layered Metal-Organic Framework. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1436-1441.	2.1	36

#	ARTICLE	IF	CITATIONS
2333	Density and structural changes of silicate glasses under high pressure. High Pressure Research, 2017, 37, 200-213.	0.4	7
2334	Superfast assembly and synthesis of gold nanostructures using nanosecond low-temperature compression via magnetic pulsed power. Nature Communications, 2017, 8, 14778.	5.8	31
2335	Piezochromism and hydrochromism through electron transfer: new stories for viologen materials. Chemical Science, 2017, 8, 2758-2768.	3.7	174
2336	Structural Behavior of $ZnCr_2S_4$ Spinel under Pressure. Journal of Physical Chemistry C, 2017, 121, 769-777.	1.5	13
2337	Evidence of Ligand Elasticity Occurring in Temperature, Light, and Pressure-Induced Spin Crossover in 1D Coordination Polymers $[Fe(3ditz)_3]X_2$ ($X = ClO_4^{\ominus}$), Tj ETQ 0 0 0 r g BT /Overlo	1.1	17
2338	The compression behavior of blÅrdite at low and high temperature up to ~ 10 GPa: Implications for the stability of hydrous sulfates on icy planetary bodies. Icarus, 2017, 285, 137-144.	1.1	17
2339	High-Pressure High-Temperature Structural Properties of Urea. Journal of Physical Chemistry C, 2017, 121, 2380-2387.	1.5	28
2340	$SrB_4O_7:Sm^{2+}$: an optical sensor reflecting non-hydrostatic pressure at high-temperature and/or high pressure in a diamond anvil cell. High Pressure Research, 2017, 37, 18-27.	0.4	15
2341	Piezochromic Porous Metal-Organic Framework. Journal of Physical Chemistry Letters, 2017, 8, 279-284.	2.1	53
2342	High-pressure Raman spectroscopy on low albite. Physics and Chemistry of Minerals, 2017, 44, 213-220.	0.3	10
2343	Dihydride formation in the palladium-rhodium alloys under high hydrogen pressure. International Journal of Hydrogen Energy, 2017, 42, 340-346.	3.8	16
2344	Impact of Pressure on the Resonant Bonding in Chalcogenides. Journal of Physical Chemistry C, 2017, 121, 25447-25454.	1.5	25
2345	Kinetically Controlled Two-Step Amorphization and Amorphous-Amorphous Transition in Ice. Physical Review Letters, 2017, 119, 135701.	2.9	22
2346	Synthesis and stability of hydrogen iodide at high pressures. Physical Review B, 2017, 96, .	1.1	9
2347	Reversible pressure pre-amorphization of a piezochromic metal-organic framework. Dalton Transactions, 2017, 46, 14795-14803.	1.6	30
2348	Topological Dirac line nodes and superconductivity coexist in SnSe at high pressure. Physical Review B, 2017, 96, .	1.1	35
2349	Pressuring the low-temperature orthorhombic phase with a non-trivial topological state of Ru_2Sn_3 to room temperature. Europhysics Letters, 2017, 117, 46001.	0.7	3
2350	Ionic transport and dielectric properties in $NaNbO_3$ under high pressure. Applied Physics Letters, 2017, 111, .	1.5	14

#	ARTICLE	IF	CITATIONS
2351	Locked octahedral tilting in orthorhombic perovskites: At the boundary of the general rule predicting phase transitions. <i>Physical Review B</i> , 2017, 95, .	1.1	5
2352	Pressure-induced anomalous enhancement of insulating state and isosymmetric structural transition in quasi-one-dimensional TiS_3 . <i>Physical Review B</i> , 2017, 96, .	1.1	12
2353	Pressure-Induced Reversible Amorphization in Hydrogen-Bonded Crystalline Phenyl Carbamate Form-I. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19365-19372.	1.5	10
2354	Pressure-induced radial collapse in few-wall carbon nanotubes: A combined theoretical and experimental study. <i>Carbon</i> , 2017, 125, 429-436.	5.4	27
2355	The high-pressure phase of lawsonite: A single crystal study of a key mantle hydrous phase. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6294-6305.	1.4	6
2356	Effects of Pressure on Model Compounds of Meteorite Organic Matter. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 475-482.	1.2	2
2357	High-pressure behavior of $(\text{Cs,K})\text{Al}_4\text{Be}_5\text{B}_{11}\text{O}_{28}$ (londonite): A single-crystal synchrotron diffraction study up to 26 GPa. <i>Journal of the American Ceramic Society</i> , 2017, 100, 4893-4901.	1.9	7
2358	Lithium polyhydrides synthesized under high pressure and high temperature. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1222-1228.	1.2	7
2359	$\text{Li}_0.5\text{Ni}_0.5\text{Mn}_2\text{O}_4$ spinel: Its synthesis, structure and high pressure properties. <i>Journal of Alloys and Compounds</i> , 2017, 722, 452-457.	2.8	3
2360	Low temperature equation of state of iron. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	10
2361	Raman and IR Spectroscopy Studies on Propane at Pressures of Up to 40 GPa. <i>Journal of Physical Chemistry A</i> , 2017, 121, 6004-6011.	1.1	11
2362	Pressure-Dependent Light Emission of Charged and Neutral Excitons in Monolayer MoSe_2 . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3556-3563.	2.1	36
2363	Spin transition of ferric iron in the calcium-ferrite type aluminous phase. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 5935-5944.	1.4	7
2364	Abnormal Pressure-Induced Photoluminescence Enhancement and Phase Decomposition in Pyrochlore $\text{La}_2\text{Sn}_2\text{O}_7$. <i>Advanced Materials</i> , 2017, 29, 1701513.	11.1	31
2365	The effect of iron and aluminum incorporation on lattice thermal conductivity of bridgmanite at the Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2017, 474, 25-31.	1.8	25
2366	Study of phase stability and isotope effect in dysprosium trihydride at high pressure. <i>Journal of Alloys and Compounds</i> , 2017, 722, 946-952.	2.8	2
2367	A high-pressure single-crystal-diffraction experimental system at 4W2 beamline of BSRF. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 699-706.	1.0	2
2368	Local structure of liquid gallium under pressure. <i>Scientific Reports</i> , 2017, 7, 5666.	1.6	19

#	ARTICLE	IF	CITATIONS
2369	Photoluminescence and phase transition in Er ₂ O ₃ under high pressure. Journal of Alloys and Compounds, 2017, 725, 941-945.	2.8	19
2370	Investigation on morphological properties of In ₂ S ₃ by high pressure x-ray diffraction. Materials Research Express, 2017, 4, 085902.	0.8	6
2371	Experimental evidence of the Frenkel line in supercritical neon. Physical Review B, 2017, 95, .	1.1	44
2372	Pressure effect and superconductivity in the $B_{i_4}Mn_4$ topological insulator. Physical Review B, 2017, 95, .	1.1	25
2373	Pressure-induced Fermi resonance between fundamental modes in 7,7,8,8-tetracyanoquinodimethane. Journal of Raman Spectroscopy, 2017, 48, 1127-1131.	1.2	10
2374	High-pressure synthesis of tetragonal iron aluminide FeAl ₂ . Scripta Materialia, 2017, 141, 107-110.	2.6	10
2375	Electronic environments of ferrous iron in rhyolitic and basaltic glasses at high pressure. Journal of Geophysical Research: Solid Earth, 2017, 122, 6306-6322.	1.4	15
2376	Low-temperature resonant Raman asymmetry in 2H-MoS ₂ under high pressure. Journal of Physics Condensed Matter, 2017, 29, 435702.	0.7	3
2377	High Pressure Effects on Zwitterionic and Thione Mesomeric Contributions in 2-Benzimidazole-2-Thione. Journal of Physical Chemistry C, 2017, 121, 18830-18836.	1.5	0
2378	Novel diamond cells for neutron diffraction using multi-carat CVD anvils. Review of Scientific Instruments, 2017, 88, 083905.	0.6	31
2379	Robust zero resistance in a superconducting high-entropy alloy at pressures up to 190 GPa. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13144-13147.	3.3	121
2380	Topologically frustrated ionisation in a water-ammonia ice mixture. Nature Communications, 2017, 8, 1065.	5.8	21
2381	SiO_2 Glass Density to Lower-Mantle Pressures. Physical Review Letters, 2017, 119, 215701.	2.9	33
2382	Synthesis of High-Quality Crystalline Carbon Nitride Oxide by Selectively Driving the High-Temperature Instability of Urea with Pressure. Journal of Physical Chemistry C, 2017, 121, 19872-19879.	1.5	9
2383	Synthesis and stability of hydrogen selenide compounds at high pressure. Journal of Chemical Physics, 2017, 147, 184303.	1.2	18
2384	A role for subducted super-hydrated kaolinite in Earth's deep water cycle. Nature Geoscience, 2017, 10, 947-953.	5.4	47
2385	High-pressure versus isoelectronic doping effect on the honeycomb iridate $NaMn_2O_7$. Physical Review B, 2017, 96, .	1.2	27
2386	High-Pressure $CaMgSi_2O_6$: Does Penta-Coordinated Silicon Exist in the Earth's Mantle?. Geophysical Research Letters, 2017, 44, 11,340.	1.5	18

#	ARTICLE	IF	CITATIONS
2387	Quantum phase transition and destruction of Kondo effect in pressurized SmB6. Science Bulletin, 2017, 62, 1439-1444.	4.3	22
2388	Longitudinal sound velocities, elastic anisotropy, and phase transition of high-pressure cubic H_2O ice to 82 GPa. Physical Review B, 2017, 96, .	1.1	22
2389	High-pressure synthesis of tantalum dihydride. Physical Review B, 2017, 96, .	1.1	22
2390	Pressure Impact on the Stability and Distortion of the Crystal Structure of $CeScO_3$. Inorganic Chemistry, 2017, 56, 8363-8371.	1.9	18
2391	From Linear Molecular Chains to Extended Polycyclic Networks: Polymerization of Dicyanoacetylene. Chemistry of Materials, 2017, 29, 6706-6718.	3.2	9
2392	High-pressure structural configuration and phase transition in celsian, $BaAl_2Si_2O_8$. Physics and Chemistry of Minerals, 2017, 44, 181-192.	0.3	5
2393	High Pressure Spectroscopic Investigation on Proton Transfer in Squaric Acid and 4,4'-Bipyridine Co-crystal. Scientific Reports, 2017, 7, 4677.	1.6	3
2394	Pressure effects in the itinerant antiferromagnetic metal TiAu. Physical Review B, 2017, 95, .	1.1	5
2395	Optical investigation of $BaFe_2$. Spin-fluctuation-mediated superconductivity under pres. Physical Review B, 2017, 95, .	1.1	1
2396	MFe_2 . Spin-fluctuation-mediated superconductivity under pres. Physical Review B, 2017, 95, .		

#	ARTICLE	IF	CITATIONS
2405	Kinetics of a first-order crystalline-amorphous transformation in zirconium tungstate. <i>Physical Review B</i> , 2017, 95, .	1.1	4
2406	The ammonium ion in a silicate under compression: infrared spectroscopy and powder X-ray diffraction of NH ₄ AlSi ₃ O ₈ buddingtonite to 30 GPa. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 149-161.	0.3	8
2407	Growth of centimeter-sized [(CH ₃) ₂ NH] ₂ [Mn(HCOO) ₃] hybrid formate perovskite single crystals and Raman evidence of pressure-induced phase transitions. <i>New Journal of Chemistry</i> , 2017, 41, 151-159.	1.4	31
2408	Spectroscopic study of inclusions in gem corundum from Mercaderes, Cauca, Colombia. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 221-233.	0.3	6
2409	Electron hybridization and anharmonic thermal vibration effect on structure transition of SrTiO ₃ at high-pressure and low-temperature. <i>Solid State Communications</i> , 2017, 249, 54-59.	0.9	6
2410	Nonstoichiometric molybdenum hydride. <i>Journal of Alloys and Compounds</i> , 2017, 694, 51-54.	2.8	19
2411	On the P-induced behavior of the zeolite phillipsite: an in situ single-crystal synchrotron X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 1-20.	0.3	12
2412	Principles of Energetic Structure and Excitation-Energy Transfer Based on High-Pressure Measurements. , 2017, , 67-151.		6
2413	High-pressure lattice-dynamics of NdVO ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2017, 100, 126-133.	1.9	24
2414	Single-crystal X-ray diffraction study of Fe ₂ SiO ₄ fayalite up to 31 GPa. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 171-179.	0.3	16
2415	Shear induced weakening of the hydrogen bonding lattice of the energetic material 5,5'-Hydrazinebistetrazole at high-pressure. <i>Journal of Molecular Structure</i> , 2017, 1129, 313-318.	1.8	6
2416	Evaluation of Pt and Au pressure scales based on MgO absolute pressure scale. <i>Science China Earth Sciences</i> , 2017, 60, 114-123.	2.3	2
2417	Isosymmetric pressure-induced bonding increase changes compression behavior of clinopyroxenes across jadeite-jagite solid solution in subduction zones. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 142-157.	1.4	11
2418	High-pressure studies with x-rays using diamond anvil cells. <i>Reports on Progress in Physics</i> , 2017, 80, 016101.	8.1	118
2419	Pressure driven spin transition in siderite and magnesiosiderite single crystals. <i>Scientific Reports</i> , 2017, 7, 16526.	1.6	24
2420	Electron-hole balance and the anomalous pressure-dependent superconductivity in black phosphorus. <i>Physical Review B</i> , 2017, 96, .	1.1	37
2421	The Melting Curve of Nickel Up to 100 GPa Explored by XAS. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9921-9930.	1.4	35
2422	Isothermal equation of state and phase stability of Fe ₅ Si ₃ up to 96 GPa and 3000 K. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4328-4335.	1.4	8

#	ARTICLE	IF	CITATIONS
2423	High pressure effects on hydrate Cu-BTC investigated by vibrational spectroscopy and synchrotron X-ray diffraction. RSC Advances, 2017, 7, 55504-55512.	1.7	30
2424	Optically detected magnetic resonance of nitrogen vacancies in a diamond anvil cell using designer diamond anvils. Applied Physics Letters, 2017, 111, .	1.5	23
2425	Anomalous behavior and phase transformation of Fe-GaOOH nanocrystals under static compression. Chinese Physics B, 2017, 26, 106402.	0.7	2
2426	High-Pressure Phase Transition of Iron: A Combined Magnetic Remanence and Mössbauer Study. Geochemistry, Geophysics, Geosystems, 2017, 18, 4646-4654.	1.0	14
2427	Material Studies at High Pressure. , 2017, , 1-47.		3
2428	Three-Phase Melting Curves in the Binary System of Carbon Dioxide and Water. Journal of Physics: Conference Series, 2017, 950, 042019.	0.3	4
2429	Radial X-Ray Diffraction Study of Static Strength of Tantalum to 80 GPa. Chinese Physics Letters, 2017, 34, 106101.	1.3	1
2430	Enhanced Framework Rigidity of a Zeolitic Metal-Azolate via Ligand Substitution. Crystals, 2017, 7, 99.	1.0	11
2431	The Influence of the Framework and Extraframework Content on the High Pressure Behavior of the GIS Type Zeolites: The Case of Amicite. Minerals (Basel, Switzerland), 2017, 7, 18.	0.8	4
2432	La_{6} Work Function and Structural Stability under High Pressure. Chinese Physics Letters, 2017, 34, 076201.	1.3	2
2433	A new high-pressure polymorph of phosphoric acid. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 1068-1074.	0.5	3
2434	Review: Coefficients for Stress, Temperature, and Composition Effects in Fluorescence Measurements of Alumina. Journal of Research of the National Institute of Standards and Technology, 2017, 122, 1-26.	0.4	12
2435	Semiconductor Nanowires: Raman Spectroscopy Studies. , 0, , .		4
2437	Superconductivity in pressurized CeRhG and related noncentrosymmetric compounds. Physical Review B, 2018, 97, .	1.1	18
2438	Compressibility and thermoelectric behavior of TiCoSb half-Heusler compound at high pressures. Intermetallics, 2018, 95, 137-143.	1.8	12
2439	Hydride ion (H^{\sim}) transport behavior in barium hydride under high pressure. Physical Chemistry Chemical Physics, 2018, 20, 8917-8923.	1.3	17
2440	Anomalous compression behaviour in Nd_2O_3 studied by x-ray diffraction and Raman spectroscopy. AIP Advances, 2018, 8, .	0.6	19
2441	Ethanol Controls the Self-Assembly and Mesoscopic Properties of Human Insulin Amyloid Spherulites. Journal of Physical Chemistry B, 2018, 122, 3101-3112.	1.2	28

#	ARTICLE	IF	CITATIONS
2442	High-pressure optical studies on R-line fluorescence lifetime in $\text{Al}_2\text{O}_3\text{:V}^{2+}$. Radiation Effects and Defects in Solids, 2018, 173, 261-268.	0.4	1
2443	Effects of pressure on the structural and electronic properties of linear carbon chains encapsulated in double wall carbon nanotubes. Carbon, 2018, 133, 446-456.	5.4	47
2444	Dynamic Covalent Chemistry under High Pressure: A New Route to Disulfide Metathesis. Chemistry - A European Journal, 2018, 24, 8769-8773.	1.7	28
2445	Phase Diagram of Dense H_2 Mixtures: Evidence for Strong Chemical Association, Miscibility, and Structural Change. Physical Review Letters, 2018, 120, 165301.	2.9	13
2446	Increasing Interlayer Coupling Prevented the Deformation in Compressed Multilayer WSe_2 . Journal of Physical Chemistry C, 2018, 122, 10261-10266.	1.5	5
2447	Ionic conduction in sodium azide under high pressure: Experimental and theoretical approaches. Applied Physics Letters, 2018, 112, 173903.	1.5	12
2448	Kinetic effects on the morphology and stability of the pressure-induced extended-solid of carbon monoxide. Journal of Chemical Physics, 2018, 148, 144702.	1.2	3
2449	Pressure-induced changes of the structure and properties of monoclinic Cu_2S . Physical Review B, 2018, 97, .	1.1	9
2450	Structural characterization of $(\text{Sm,Tb})\text{PO}_4$ solid solutions and pressure-induced phase transitions. Journal of the European Ceramic Society, 2018, 38, 4070-4081.	2.8	18
2451	Saturation of the Siliceous Zeolite TON with Neon at High Pressure. Journal of Physical Chemistry C, 2018, 122, 8455-8460.	1.5	11
2452	Experimental and Theoretical Study of $\text{Bi}_2\text{O}_2\text{Se}$ Under Compression. Journal of Physical Chemistry C, 2018, 122, 8853-8867.	1.5	46
2453	Transformation of hydrazinium azide to molecular N_8 at 40 GPa. Journal of Chemical Physics, 2018, 148, 134310.	1.2	23
2454	Boron monosulfide: Equation of state and pressure-induced phase transition. Journal of Applied Physics, 2018, 123, .	1.1	13
2455	Doping effect of alkali metal elements on the structural stability and transport properties of ZnO at high pressures. Journal of Alloys and Compounds, 2018, 751, 266-274.	2.8	8
2456	Pressure-Tailored Band Gap Engineering and Structure Evolution of Cubic Cesium Lead Iodide Perovskite Nanocrystals. Journal of Physical Chemistry C, 2018, 122, 9332-9338.	1.5	67
2457	High pressure synthesis and stability of cobalt hydrides. Journal of Chemical Physics, 2018, 148, 144310.	1.2	23
2458	Evidence for a different electronic configuration as a primary effect during compression of orthorhombic perovskites: The case of NdM_3O_3 ($\text{M}=\text{Cr,Ga}$). Physical Review B, 2018, 97, .	1.1	1
2459	Tetracyanomethane under Pressure: Extended CN Polymers from Precursors with Built-in sp^3 Centers. Journal of Physical Chemistry A, 2018, 122, 2858-2863.	1.1	14

#	ARTICLE	IF	CITATIONS
2460	Experimental evidence of low-density liquid water upon rapid decompression. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2010-2015.	3.3	39
2461	Studies on the structural stability of Co ₂ P ₂ O ₇ under pressure. Journal of Physics and Chemistry of Solids, 2018, 116, 113-117.	1.9	9
2462	Radiation-induced disorder in compressed lanthanide zirconates. Physical Chemistry Chemical Physics, 2018, 20, 6187-6197.	1.3	10
2463	Strengthening effects of interstitial nitrogen on rhenium. Journal of Applied Physics, 2018, 123, .	1.1	9
2464	Pressure-Induced Phase Transitions and Bandgap-Tuning Effect of Methylammonium Lead Iodide Perovskite. MRS Advances, 2018, 3, 1825-1830.	0.5	7
2465	Pressure effect on impurity local vibrational mode and phase transitions in n-type iron-doped indium phosphide. Scientific Reports, 2018, 8, 1284.	1.6	11
2466	Pressure-induced superconductivity and topological quantum phase transitions in a quasi-one-dimensional topological insulator: Bi ₄ I ₄ . Npj Quantum Materials, 2018, 3, .	1.8	34
2467	Superconductivity in Pristine H_2 at Ultrahigh Pressure. Physical Review Letters, 2018, 120, 037002.	1.9	10
2468	Depth of formation of super-deep diamonds: Raman barometry of CaSiO ₃ -walstromite inclusions. American Mineralogist, 2018, 103, 69-74.	0.9	33
2469	Investigation on electrical transport properties of nanocrystalline WO ₃ under high pressure. Journal of Materials Science, 2018, 53, 6339-6349.	1.7	4
2470	A ₂ TiO ₅ (A = Dy, Gd, Er, Yb) at High Pressure. Inorganic Chemistry, 2018, 57, 2269-2277.	1.9	6
2471	High-pressure and temperature dependence of the spontaneous resolution of 1,1'-binaphthyl enantiomers. Physical Chemistry Chemical Physics, 2018, 20, 5305-5311.	1.3	8
2472	High-Pressure Geophysical Properties of <i>Fcc</i> Phase FeH _X . Geochemistry, Geophysics, Geosystems, 2018, 19, 305-314.	1.0	37
2473	Molecular Dual-Rotators with Large Consecutive Emission Chromism for Visualized and High-Pressure Sensing. ACS Omega, 2018, 3, 717-723.	1.6	1
2474	Vanadium Diboride (VB ₂) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability. Inorganic Chemistry, 2018, 57, 1096-1105.	1.9	64
2475	Formation of H_2 -rich iodine-hydrogen compounds at high pressure. Physical Review B, 2018, 97, .	1.1	15
2476	Pressure induced solid-solid reconstructive phase transition in $LiGaO_2$ dominated by elastic strain. Physical Review B, 2018, 97, .	1.1	10
2477	Zone-Collapse Amorphization Mimicking the Negative Compressibility of a Porous Compound. Crystal Growth and Design, 2018, 18, 1082-1089.	1.4	13

#	ARTICLE	IF	CITATIONS
2478	In situ Raman spectroscopy of pressure-induced phase transformations in polycrystalline TbPO ₄ , DyPO ₄ , and GdPO ₄ . Journal of the American Ceramic Society, 2018, 101, 2562-2570.	1.9	12
2479	High pressure in-situ X-ray diffraction study on Zn-doped magnetite nanoparticles. Solid State Sciences, 2018, 77, 1-4.	1.5	3
2480	High pressure sensitivity of anti-Stokes fluorescence in Nd ³⁺ doped yttrium orthoaluminate nano-perovskites. Journal of Luminescence, 2018, 196, 20-24.	1.5	5
2481	High pressure experimental studies on Na ₃ Fe(PO ₄)(CO ₃) and Na ₃ Mn(PO ₄)(CO ₃): Extensive pressure behaviors of carbonophosphates family. Journal of Physics and Chemistry of Solids, 2018, 115, 248-253.	1.9	5
2482	Pressure induced photoluminescence modulation in a wide range and synthesis of monodispersed ternary AgCuS nanocrystal based on Ag ₂ S nanocrystals. Nanoscale, 2018, 10, 2577-2587.	2.8	7
2483	The effect of pressure on open-framework silicates: elastic behaviour and crystal-fluid interaction. Physics and Chemistry of Minerals, 2018, 45, 115-138.	0.3	44
2484	High-pressure structural and vibrational properties of monazite-type BiPO ₄ , LaPO ₄ , CePO ₄ , and PrPO ₄ . Journal of Physics Condensed Matter, 2018, 30, 065401.	0.7	28
2485	Bonding of xenon to oxygen in magmas at depth. Earth and Planetary Science Letters, 2018, 484, 103-110.	1.8	9
2486	Unraveling the mechanical behaviour of hydrazine borane (NH ₂) ₂ ·NH ₂ ·BH ₃ . Physical Chemistry Chemical Physics, 2018, 20, 2845-2850.	1.3	4
2487	High-pressure Single-crystal X-ray Diffraction Study on Minerals Related to the Earth's Mantle.: Nihon Kessho Gakkaishi, 2018, 60, 32-39.	0.0	0
2488	In Situ Synchrotron X-ray Diffraction and Raman Spectroscopy Studies of Gd@C ₈₂ ·S ₈ under High Pressure. Journal of Physical Chemistry C, 2018, 122, 10992-10998.	1.5	6
2489	<i>In situ</i> Raman and X-ray diffraction studies on the high pressure and temperature stability of methane hydrate up to 55 GPa. Journal of Chemical Physics, 2018, 148, 164503.	1.2	14
2490	Effect of the fcc-hcp martensitic transition on the equation of state of solid krypton up to 140 GPa. Physical Review B, 2018, 97, .	1.1	21
2491	Structural phase transition, strength, and texture in vanadium at high pressure under nonhydrostatic compression. Chinese Physics B, 2018, 27, 036101.	0.7	5
2492	Size-dependent phase transition of Er ₂ O ₃ under high pressure. Applied Physics Letters, 2018, 112, 143102.	1.5	10
2493	Structural Transformation Pathways of Multiferroic BiFeO ₃ under High Pressures. Journal of Physical Chemistry C, 2018, 122, 6852-6857.	1.5	17
2494	Compressibility of Cs ₂ SnBr ₆ by X-ray diffraction and Raman spectroscopy. Solid State Communications, 2018, 275, 68-72.	0.9	24
2495	Pressure induced electronic phase transitions and superconductivity in n-type Bi ₂ Te ₃ . Journal of Applied Physics, 2018, 123, .	1.1	8

#	ARTICLE	IF	CITATIONS
2496	Probing lattice dynamics and electron-phonon coupling in the topological nodal-line semimetal ZrSiS. <i>Physical Review B</i> , 2018, 97, .	1.1	25
2497	CO ₂ -induced destabilization of pyrite-structured FeO ₂ Hx in the lower mantle. <i>National Science Review</i> , 2018, 5, 870-877.	4.6	15
2498	Solids, liquids, and gases under high pressure. <i>Reviews of Modern Physics</i> , 2018, 90, .	16.4	337
2499	Structural, vibrational, and electronic topological transitions of Bi _{1.5} Sb _{0.5} Te _{1.8} Se _{1.2} under pressure. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	14
2500	Synthesis and characterization of Ti-doped ZrSiO ₄ at ambient and high-pressure conditions. <i>Journal of Materials Science</i> , 2018, 53, 8817-8825.	1.7	4
2501	High-Pressure Transformations and the Resonance Structure of Thiourea. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5064-5070.	1.5	11
2502	The high-pressure behavior of spherocobaltite (CoCO ₃): a single crystal Raman spectroscopy and XRD study. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 59-68.	0.3	9
2503	Phase transition of ZnS at high pressures and temperatures. <i>Phase Transitions</i> , 2018, 91, 9-14.	0.6	10
2504	Pressure-induced polymerization of butyndioic acid and its Li ⁺ salt. <i>Chinese Chemical Letters</i> , 2018, 29, 328-330.	4.8	3
2505	Towards band structure and band offset engineering of monolayer Mo ₂ (1-x)W ₂ (1-x)S ₂ via Strain. <i>2D Materials</i> , 2018, 5, 015008.	2.0	28
2506	Pargasite at high pressure and temperature. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 259-278.	0.3	7
2507	Crystal-fluid interactions in laumontite. <i>Microporous and Mesoporous Materials</i> , 2018, 263, 86-95.	2.2	14
2508	Structural Behavior of Natural Silicate-Carbonate Spurrite Mineral, Ca ₅ (SiO ₄) ₂ (CO ₃), under High-Pressure, High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2018, 57, 98-105.	1.9	16
2509	High-pressure transformations of ortho-xylene probed by combined infrared and Raman spectroscopies. <i>Solid State Communications</i> , 2018, 269, 96-101.	0.9	6
2510	Stress-controlled thermoelectric module for energy harvesting and its application for the significant enhancement of the power factor of Bi ₂ Te ₃ -based thermoelectrics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 025501.	1.3	18
2511	Radial X-ray diffraction study of the static strength and texture of tungsten to 96 GPa. <i>Solid State Communications</i> , 2018, 269, 83-89.	0.9	6
2512	Pressure-induced phase transformation of CsPbI ₃ by X-ray diffraction and Raman spectroscopy. <i>Phase Transitions</i> , 2018, 91, 38-47.	0.6	61
2513	Pressure-induced phase transition from calcite to aragonite detected by fluorescence spectroscopy. <i>European Journal of Mineralogy</i> , 2018, 30, 711-720.	0.4	4

#	ARTICLE	IF	CITATIONS
2514	High-pressure study of dravite tourmaline: Insights into the accommodating nature of the tourmaline structure. <i>American Mineralogist</i> , 2018, 103, 1622-1633.	0.9	16
2515	Comparative compressional behavior of chabazite with Li+, Na+, Ag+, K+, Rb+, and Cs+ as extra-framework cations. <i>American Mineralogist</i> , 2018, 103, 207-215.	0.9	2
2516	A vibrational spectroscopic study of kernite to 25 GPa: Implications for the high-pressure stability of borate polyhedra. <i>American Mineralogist</i> , 2018, 103, 1306-1318.	0.9	3
2517	Experimental and theoretical study on the optical properties of LaVO ₄ crystals under pressure. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27314-27328.	1.3	26
2518	A novel carbon bonding environment in deep mantle high-pressure dolomite. <i>American Mineralogist</i> , 2018, 103, 171-174.	0.9	25
2519	Equation of State of a Natural Chromian Spinel at Ambient Temperature. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 591.	0.8	6
2520	Intrusion of Electrolyte Aqueous Solutions in Pure Silica Chabazite by in Situ High Pressure Synchrotron X-ray Powder Diffraction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28001-28012.	1.5	12
2521	Reversible metallization and carrier transport behavior of In ₂ S ₃ under high pressure. <i>AIP Advances</i> , 2018, 8, .	0.6	7
2522	Independence of topological surface state and bulk conductance in three-dimensional topological insulators. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	33
2523	High-pressure angle-dispersive X-ray diffraction study of mechanically alloyed SnSe ₂ . <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	7
2524	Pressure-Induced Electronic and Structural Phase Evolution in the van der Waals Compound FePS ₃ . <i>Physical Review Letters</i> , 2018, 121, 266801.	2.9	83
2525	Pressure-driven phase transitions and reduction of dimensionality in 2D silicon nanosheets. <i>Nature Communications</i> , 2018, 9, 5412.	5.8	14
2526	²⁹ Si NMR of aqueous silicate complexes at gigapascal pressures. <i>Communications Chemistry</i> , 2018, 1, .	2.0	3
2527	Phase transition systematics in BiVO ₄ by means of high-pressure high-temperature Raman experiments. <i>Physical Review B</i> , 2018, 98, .	2.1	21
2528	High-Pressure Phase Transition of Micro- and Nanoscale HoVO ₄ and High-Pressure Phase Diagram of REVO ₄ with RE Ionic Radius. <i>ACS Omega</i> , 2018, 3, 18227-18233.	1.6	7
2529	Persistence of the R ₃ m Phase in Powder GeTe at High Pressure and High Temperature. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28460-28465.	1.5	6
2530	Venture into Water's No Man's Land: Structural Transformations of Solid H ₂ O under Rapid Compression and Decompression. <i>Journal of Applied Physics</i> , 2018, 124, .	2.9	21
2531	Fragmentation and stress diversification in diamond powder under high pressure. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	24

#	ARTICLE	IF	CITATIONS
2532	Experimental Observation of the High Pressure Induced Substitutional Solid Solution and Phase Transformation in Sb ₂ S ₃ . <i>Scientific Reports</i> , 2018, 8, 14795.	1.6	13
2533	Effects of non-hydrostaticity and grain size on the pressure-induced phase transition of the CoCrFeMnNi high-entropy alloy. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	19
2534	Next-generation diamond cell and applications to single-crystal neutron diffraction. <i>Review of Scientific Instruments</i> , 2018, 89, 092902.	0.6	20
2535	The Structure of Ferroselite, FeSe ₂ , at Pressures up to 46 GPa and Temperatures down to 50 K: A Single-Crystal Micro-Diffraction Analysis. <i>Crystals</i> , 2018, 8, 289.	1.0	7
2536	Ultrafast response of photoexcited carriers in VO ₂ at high-pressure. <i>New Journal of Physics</i> , 2018, 20, 083003.	1.2	15
2537	Emergent Dirac carriers across a pressure-induced Lifshitz transition in black phosphorus. <i>Physical Review B</i> , 2018, 98, .	1.1	14
2538	Pressure effects on superconductivity and structural parameters of ThFeAsN. <i>Europhysics Letters</i> , 2018, 123, 67004.	0.7	6
2539	NO ₂ –NO ₂ Contacts under Compression: Testing the Forces in Soft Donor–Acceptor Interactions. <i>Crystal Growth and Design</i> , 2018, 18, 7579-7589.	1.4	19
2540	Measurements of thermal conductivity across the B1-B2 phase transition in NaCl. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	8
2541	Synthesis of Ni ₂ H ₃ at high temperatures and pressures. <i>Physical Review B</i> , 2018, 98, .	1.1	14
2542	First-principles calculations and Raman scattering evidence for local symmetry lowering in rhombohedral ilmenite: temperature- and pressure-dependent studies. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 485401.	0.7	13
2543	Comparative study of the pressure dependence of optical-phonon transverse-effective charges and linewidths in wurtzite InN. <i>Physical Review B</i> , 2018, 98, .	1.1	12
2544	High-Pressure High-Temperature Stability and Thermal Equation of State of Zircon-Type Erbium Vanadate. <i>Inorganic Chemistry</i> , 2018, 57, 14005-14012.	1.9	17
2545	Pressure-induced emission of cesium lead halide perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4506.	5.8	212
2546	The high-pressure anisotropic thermoelastic properties of a potential inner core carbon-bearing phase, Fe ₇ C ₃ , by single-crystal X-ray diffraction. <i>American Mineralogist</i> , 2018, 103, 1568-1574.	0.9	14
2547	Pressure-Induced Locking of Methylammonium Cations versus Amorphization in Hybrid Lead Iodide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22073-22082.	1.5	42
2548	Clamp cell with <i>in situ</i> pressure monitoring for low-temperature neutron scattering measurements. <i>High Pressure Research</i> , 2018, 38, 482-492.	0.4	12
2549	Pressure-induced structural modulations in coesite. <i>Physical Review B</i> , 2018, 98, .	1.1	4

#	ARTICLE	IF	CITATIONS
2550	Compression behavior and phase transition of Si_3N_4 under high pressure. Chinese Physics B, 2018, 27, 056101.	0.7	3
2551	Substrate-affected lattice structural evolution in compressed monolayer ReS_2 . Physical Chemistry Chemical Physics, 2018, 20, 24927-24932.	1.3	4
2552	Phase Transitions and Resistivity Anomaly of Layered MoO_3 at High Pressure. Journal of Physical Chemistry C, 2018, 122, 22632-22641.	1.5	8
2553	High-Pressure/Temperature Behavior of the Alkali/Calcium Carbonate Shortite ($\text{Na}_2\text{Ca}(\text{CO}_3)_3$): Implications for Carbon Sequestration in Earth's Transition Zone. Journal of Geophysical Research: Solid Earth, 2018, 123, 6574-6591.	1.4	16
2554	High-pressure behavior of intermediate scapolite: compressibility, structure deformation and phase transition. Physics and Chemistry of Minerals, 2018, 45, 945-962.	0.3	5
2555	Phase transition in metal-organic complex $\text{PtCl}_2(\text{PET}_3)_2$ under pressure: insights into the molecular and crystal structure. CrystEngComm, 2018, 20, 3728-3740.	1.3	5
2556	A vibrational study of phase transitions in $\text{Fe}_2\text{P}_2\text{O}_7$ and $\text{Cr}_2\text{P}_2\text{O}_7$ under high-pressures. Journal of the American Ceramic Society, 2018, 101, 5257-5268.	1.9	6
2557	Optical spectroscopy study on pressure-induced phase transitions in the three-dimensional Dirac semimetal Cd_3As_2 . Physical Review B, 2018, 97, .	1.1	10
2558	Room-temperature synthesis of Al_2O_3 and ruby ($\text{Cr}:\text{Al}_2\text{O}_3$). CrystEngComm, 2018, 20, 3505-3511.	1.3	11
2559	Pressure-induced topological insulator-to-metal transition and superconductivity in Sn-doped Bi_2Te_3 . Physical Review B, 2018, 97, .	1.1	9
2560	Experimental constraints on the sound velocities of cementite Fe_3C to core pressures. Earth and Planetary Science Letters, 2018, 494, 164-171.	1.8	29
2561	Graphitization of Glassy Carbon after Compression at Room Temperature. Physical Review Letters, 2018, 120, 215701.	2.9	50
2562	Iron under conditions close to the $\text{Fe}-\text{Fe}_3\text{C}$ triple point. Applied Physics Letters, 2018, 112, .	1.5	17
2563	Phase Transition and vibration properties of MnCO_3 at high pressure and high-temperature by Raman spectroscopy. High Pressure Research, 2018, 38, 212-223.	0.4	19
2564	Static strength of molybdenum to 92 GPa under radial X-ray diffraction. International Journal of Modern Physics B, 2018, 32, 1850177.	1.0	2
2565	High-pressure synchrotron X-ray diffraction study of tremolite and actinolite in various fluids. Current Applied Physics, 2018, 18, 1218-1224.	1.1	3
2566	Structural anomalies in exfoliated WS_2 : High pressure investigations on monolayer and nanocrystalline tungsten disulfide. Journal of Applied Physics, 2018, 123, .	1.1	15
2567	CaCO_3 phase diagram studied with Raman spectroscopy at pressures up to 50 GPa and high temperatures and DFT modeling. Physics of the Earth and Planetary Interiors, 2018, 281, 31-45.	0.7	83

#	ARTICLE	IF	CITATIONS
2568	Emergent superconductivity in an iron-based honeycomb lattice initiated by pressure-driven spin-crossover. <i>Nature Communications</i> , 2018, 9, 1914.	5.8	119
2569	KMgF ₃ :Eu ²⁺ as a new fluorescence-based pressure sensor for diamond anvil cell experiments. <i>Optical Materials</i> , 2018, 84, 99-102.	1.7	24
2570	Quantum dots to probe temperature and pressure in highly confined liquids. <i>RSC Advances</i> , 2018, 8, 22897-22908.	1.7	14
2571	Equations of state and phase boundary for stishovite and CaCl ₂ -type SiO ₂ . <i>American Mineralogist</i> , 2018, 103, 792-802.	0.9	32
2572	A giant 2-dimensional dielectric response in a compressed hydrogen-bonded hybrid organic-inorganic salt. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7689-7699.	2.7	12
2573	Structural and transport properties of the topological semimetal TaSb ₂ at high pressures. <i>Journal of Solid State Chemistry</i> , 2018, 265, 359-363.	1.4	6
2574	Pressure Impact on the Crystal Structure, Optical, and Transport Properties in Layered Oxychalcogenides BiCu ₂ Ch ₂ O (Ch = S, Se). <i>Journal of Physical Chemistry C</i> , 2018, 122, 15929-15936.	1.5	15
2575	Phase transition and optical absorption evolution of WO ₃ nanoparticles induced by pressure. <i>Materials Research Express</i> , 2018, 5, 075015.	0.8	1
2576	Pressure-induced melting of magnetic order and emergence of a new quantum state in RuCl_3 . <i>Physical Review B</i> , 2018, 97, .	1.1	43
2577	Optical pressure nano-sensor based on lanthanide doped SrB ₂ O ₄ :Sm ²⁺ luminescence - Novel high-pressure nanomanometer. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 585-591.	4.0	48
2578	Transformation of molecular CO ₂ -III in low-density carbon to extended CO ₂ -V in porous diamond at high pressures and temperatures. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 314002.	0.7	3
2579	The Ideal Crystal Structure of Cristobalite X-I: A Bridge in SiO ₂ Densification. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17437-17446.	1.5	4
2580	Exploration of the Energetic Material Ammonium Perchlorate at High Pressures: Combined Raman Spectroscopy and X-ray Diffraction Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15937-15944.	1.5	12
2581	Bright, Mechanosensitive Upconversion with Cubic-Phase Heteroepitaxial Core-Shell Nanoparticles. <i>Nano Letters</i> , 2018, 18, 4454-4459.	4.5	55
2582	Structural stability of the Li-ion conductor Li ₇ La ₃ Zr ₂ O ₁₂ investigated by high-pressure in-situ X-ray diffraction and Raman spectroscopy. <i>Materials Research Bulletin</i> , 2018, 107, 361-365.	2.7	13
2583	Pseudoelasticity at Large Strains in Au Nanocrystals. <i>Physical Review Letters</i> , 2018, 121, 056102.	2.9	17
2584	Equation of state of solid Ne inter-calibrated with the MgO, Au, Pt, NaCl-B2, and ruby pressure scales up to 130 GPa. <i>High Pressure Research</i> , 2018, 38, 377-395.	0.4	16
2585	Isothermal pressure-derived metastable states in 2D hybrid perovskites showing enduring bandgap narrowing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8076-8081.	3.3	137

#	ARTICLE	IF	CITATIONS
2586	Framework and coordination strain in two isostructural hybrid metal-organic perovskites. CrystEngComm, 2018, 20, 5348-5355.	1.3	14
2587	Pressure induced superconductivity in the compound ScZrCo. New Journal of Physics, 2018, 20, 073036.	1.2	3
2588	Influence of Polar Pressure Transmission Medium on the Pressure Coefficient of Excitonic Interband Transitions in Monolayer WSe ₂ . Chinese Physics Letters, 2018, 35, 066201.	1.3	1
2589	Evolution of Interatomic and Intermolecular Interactions and Polymorphism of Melamine at High Pressure. Crystals, 2018, 8, 265.	1.0	8
2590	High-pressure single-crystal elasticity of wadsleyite and the seismic signature of water in the shallow transition zone. Earth and Planetary Science Letters, 2018, 498, 77-87.	1.8	43
2591	Solid-State Associative Reactions and the Coordination Compression Mechanism. Inorganic Chemistry, 2018, 57, 8942-8950.	1.9	17
2592	Impact of High Pressure on Metallophilic Interactions and Its Consequences for Spectroscopic Properties of a Model Tetranuclear Silver(I)-Copper(I) Complex in the Solid State. Inorganic Chemistry, 2018, 57, 8509-8520.	1.9	10
2593	Single-crystal elasticity of the rhodochrosite at high pressure by Brillouin scattering spectroscopy. High Pressure Research, 2018, 38, 396-405.	0.4	1
2594	Pressure-induced enhancement of optoelectronic properties in PtS ₂ . Chinese Physics B, 2018, 27, 066201.	0.7	13
2595	Pressure induced anomalous magnetic behaviour in nanocrystalline YCrO ₃ at room temperature. Journal of Physics Condensed Matter, 2018, 30, 335401.	0.7	4
2596	Pressure-induced isostructural phase transition and charge transfer in superconducting FeSe. Journal of Alloys and Compounds, 2018, 767, 811-819.	2.8	19
2597	Abnormal Elasticity of Fe-Bearing Bridgmanite in the Earth's Lower Mantle. Geophysical Research Letters, 2018, 45, 4725-4732.	1.5	27
2598	Pentacoordinated silicon in the high-pressure modification of datolite, CaBSiO ₄ (OH). Inorganic Chemistry Frontiers, 2018, 5, 1653-1660.	3.0	14
2599	Synchrotron Mössbauer Spectroscopy Measurement. , 2018, , 179-210.		2
2600	Pressure-induced structural and semiconductor-semiconductor transitions in $C_{0.5}Mg_{0.5}O$. http://www.w3.org/1998/Math/MathML $C_{0.5}Mg_{0.5}O$	1.1	20
2601	Electrical Resistivity of Fe-C Alloy at High Pressure: Effects of Carbon as a Light Element on the Thermal Conductivity of the Earth's Core. Journal of Geophysical Research: Solid Earth, 2018, 123, 3564-3577.	1.4	23
2602	Pressure dependence of excited-state charge-carrier dynamics in organolead tribromide perovskites. Applied Physics Letters, 2018, 112, .	1.5	21
2603	High pressure studies on nanocrystalline YCrO ₃ . AIP Conference Proceedings, 2018, , .	0.3	1

#	ARTICLE	IF	CITATIONS
2604	High-pressure synchrotron x-ray diffraction and Raman spectroscopic study of plumbogummite. Chinese Physics B, 2018, 27, 017402.	0.7	3
2605	Tailored Synthesis of the Narrowest Zigzag Graphene Nanoribbon Structure by Compressing the Lithium Acetylide under High Temperature. Journal of Physical Chemistry C, 2018, 122, 20506-20512.	1.5	10
2606	Unexpected Semimetallic BiS ₂ at High Pressure and High Temperature. Journal of Physical Chemistry Letters, 2018, 9, 5785-5791.	2.1	12
2607	Pressure-Temperature Phase Diagrams and Transition Mechanisms of Hybrid Organic-Inorganic NH ₄ N Bonded Ferroelectrics. Crystal Growth and Design, 2018, 18, 6488-6496.	1.4	9
2608	Pressure-induced enhancement in the superconductivity of ZrTe ₃ . Journal of Physics Condensed Matter, 2018, 30, 385701.	0.7	14
2609	Feldspar Raman shift and application as a magmatic thermobarometer. American Mineralogist, 2018, 103, 600-609.	0.9	13
2610	X-Ray Diffraction under Extreme Conditions at the Advanced Light Source. Quantum Beam Science, 2018, 2, 4.	0.6	18
2611	The DN-6 Neutron Diffractometer for High-Pressure Research at Half a Megabar Scale. Crystals, 2018, 8, 331.	1.0	45
2612	Remarkable resilience of the formate cage in a multiferroic metal organic framework material: dimethyl ammonium manganese formate (DMAMnF). Dalton Transactions, 2018, 47, 12993-13005.	1.6	18
2613	Studies on Im-3-type KSbO ₃ using high pressure X-ray diffraction and Raman spectroscopy. High Pressure Research, 2018, 38, 232-242.	0.4	4
2614	Copolymerization of CO and N ₂ to Extended CON ₂ Framework Solid at High Pressures. Journal of Physical Chemistry C, 2018, 122, 13054-13060.	1.5	18
2615	Pressure-induced stacking disorder in boehmite. Physical Chemistry Chemical Physics, 2018, 20, 16650-16656.	1.3	4
2616	Pressure-induced structural and electronic transitions, metallization, and enhanced visible-light responsiveness in layered rhenium disulphide. Physical Review B, 2018, 97, .	1.1	35
2617	Pressure-Induced Metallization and Robust Superconductivity in Pristine 1T-SnSe ₂ . Advanced Electronic Materials, 2018, 4, 1800155.	2.6	33
2618	Armstrongite at non-ambient conditions: An in-situ high-pressure single-crystal X-ray diffraction study. Microporous and Mesoporous Materials, 2019, 274, 171-175.	2.2	5
2619	Compressibility of natural schreibersite up to 50 GPa. Physics and Chemistry of Minerals, 2019, 46, 91-99.	0.3	5
2620	Electrical Transport Properties and Band Structure of CuInSe ₂ under High Pressure. Journal of Physical Chemistry C, 2019, 123, 20757-20763.	1.5	3
2621	Putting the Squeeze on Lead Chromate Nanorods. Journal of Physical Chemistry Letters, 2019, 10, 4744-4751.	2.1	6

#	ARTICLE	IF	CITATIONS
2622	Magnetocaloric Mn ₅ Si ₃ and MnFe ₄ Si ₃ at variable pressure and temperature. <i>Materials Research Express</i> , 2019, 6, 096118.	0.8	5
2623	Raman spectroscopic evidence of impurity-induced structural distortion in SmB ₆ . <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1661-1671.	1.2	16
2624	High-Pressure Synthesis and Phase Stability of Nickel Pernitride. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3753-3757.	1.0	24
2625	Correlation between the wafer curvature and fluorescence of pulsed laser deposited ruby thin films stressed to $\sim 1/4$ GPa. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	4
2626	The effect of pressure and composition on Cu-bearing hydroxide perovskite. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 877-887.	0.3	2
2627	Characterization of metallization and amorphization for GaP under different hydrostatic environments in diamond anvil cell up to 40.0 GPa. <i>Review of Scientific Instruments</i> , 2019, 90, 066103.	0.6	24
2628	Ground states of Au ₂ Pb and pressure-enhanced superconductivity. <i>Physical Review B</i> , 2019, 100, .	1.1	9
2629	Environment-Controlled Postsynthetic Modifications of Iron Formate Frameworks. <i>Inorganic Chemistry</i> , 2019, 58, 11773-11781.	1.9	14
2630	Structure-longitudinal sound velocity relationships in glassy anorthite (CaAl ₂ Si ₂ O ₈) up to 20 GPa: An in situ Raman and Brillouin spectroscopy study. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 132-144.	1.6	9
2631	Experimental Evidence for Partially Dehydrogenated μ -FeOOH. <i>Crystals</i> , 2019, 9, 356.	1.0	3
2632	Structural, vibrational and electrical properties of type-II Dirac semimetal PtSe ₂ under high pressure. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 415402.	0.7	6
2633	Synthesis of Arsenopyrite-Type Rhodium Pernitride RhN ₂ from a Single-Source Azide Precursor. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 3667-3671.	1.0	17
2634	Disorder-order structural transition of single crystal hydrogen chloride under high pressure-temperature. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17655-17661.	1.3	0
2635	Electronic and vibrational properties of the two-dimensional Mott insulator $V_{0.9}PS_3$ under high pressure. <i>Physical Review B</i> , 2019, 100, .	1.1	7
2636	Elasticity of single-crystal low water content hydrous pyrope at high-pressure and high-temperature conditions. <i>American Mineralogist</i> , 2019, 104, 1022-1031.	0.9	9
2637	Isostructural Mott transition in 2D honeycomb antiferromagnet V _{0.9} PS ₃ . <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	22
2638	Manipulating efficient light emission in two-dimensional perovskite crystals by pressure-induced anisotropic deformation. <i>Science Advances</i> , 2019, 5, eaav9445.	4.7	130
2639	Characterization of the pressure-induced phase transition of metallization for MoTe ₂ under hydrostatic and non-hydrostatic conditions. <i>AIP Advances</i> , 2019, 9, 065104.	0.6	15

#	ARTICLE	IF	CITATIONS
2640	Nonreversible Transition from the Hexagonal to Wurtzite Phase of Boron Nitride under High Pressure: Optical Properties of the Wurtzite Phase. Journal of Physical Chemistry C, 2019, 123, 20167-20173.	1.5	12
2641	High-Pressure Softening of the Out-of-Plane A_{2u} (Transverse-Optic) Mode of Hexagonal Boron Nitride Induced by Dynamical Buckling. Journal of Physical Chemistry C, 2019, 123, 17491-17497.	1.5	19
2642	High pressure theoretical and experimental analysis of the bandgap of BaMoO ₄ , PbMoO ₄ , and CdMoO ₄ . Applied Physics Letters, 2019, 115, .	1.5	24
2643	Pressure-induced modification of the anomalous Hall effect in layered Fe_3S_2 . Physical Review B, 2019, 100, .		
2644	Dielectric properties and the role of grain boundaries in polycrystalline tetracene at high pressures. CrystEngComm, 2019, 21, 4507-4512.	1.3	6
2645	$\text{C}_3\text{X}_2\text{O}_7$ associated with hybrid improper ferroelectricity in $\text{C}_3\text{X}_2\text{O}_7$.		

#	ARTICLE	IF	CITATIONS
2658	Low-pressure ferroelastic phase transition in rutile-type AX ₂ minerals: cassiterite (SnO ₂), pyrolusite (MnO ₂) and sellaite (MgF ₂). <i>Physics and Chemistry of Minerals</i> , 2019, 46, 987-1002.	0.3	4
2659	Optical signature of the pressure-induced dimerization in the honeycomb iridate Li_2IrO_3 . <i>Physical Review B</i> , 2019, 99, .	1.1	11
2660	Equations of State of Simple Solids (Including Pb, NaCl and LiF) Compressed in Helium or Neon in the Mbar Range. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 684.	0.8	14
2661	CO ₃ +1 network formation in ultra-high pressure carbonate liquids. <i>Scientific Reports</i> , 2019, 9, 15416.	1.6	8
2662	Sound velocity of neon at high pressures and temperatures by Brillouin scattering. <i>American Mineralogist</i> , 2019, 104, 1650-1655.	0.9	3
2663	Stability, composition, and crystal structure of Fe-bearing Phase E in the transition zone. <i>American Mineralogist</i> , 2019, 104, 1620-1624.	0.9	8
2664	Pressure-Induced Metallization Accompanied by Elongated S ²⁻ Dimer in Charge Transfer Insulator NiS ₂ . <i>Chinese Physics Letters</i> , 2019, 36, 107101.	1.3	2
2665	The equation of state of TaC _{0.99} by X-ray diffraction in radial scattering geometry to 32 GPa and 1073 K. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	2
2666	From Molecules to Carbon Materials—High Pressure Induced Polymerization and Bonding Mechanisms of Unsaturated Compounds. <i>Crystals</i> , 2019, 9, 490.	1.0	18
2667	High pressure studies on $\text{Al}_{0.5}\text{Ca}_{0.5}\text{PO}_4$: hydrostatic versus non-hydrostatic conditions. <i>High Pressure Research</i> , 2019, 39, 81-91.	0.4	2
2668	Structure and elasticity of cubic Fe-Si alloys at high pressures. <i>Physical Review B</i> , 2019, 100, .	1.1	15
2669	High-pressure structural change in the ferroelectric layered perovskite $\text{Sr}_2\text{Ni}_2\text{S}_2\text{O}_{10}$. <i>Physical Review B</i> , 2019, 100, .	1.1	8
2670	Study of the high pressure phase evolution of Co_3O_4 . <i>Physical Review B</i> , 2019, 100, .	1.1	3
2671	Pressure-induced isosymmetric phase transition in biurea. <i>CrystEngComm</i> , 2019, 21, 5872-5881.	1.3	3
2672	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2019, 100, .	1.1	22
2673	High-pressure nano-seismology: Use of micro-ring resonators for characterizing acoustic emissions. <i>Applied Physics Letters</i> , 2019, 115, 081904.	1.5	2
2674	Tuning Pressure-Induced Phase Transitions, Amorphization, and Excitonic Emissions of 2D Hybrid Perovskites via Varying Organic Amine Cations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22491-22498.	1.5	19
2675	Structural transitions in NaNH_2 via recrystallization under high pressure*. <i>Chinese Physics B</i> , 2019, 28, 096402.	0.7	6

#	ARTICLE	IF	CITATIONS
2676	Many-body effects on Equation of state of solid Ar4. IOP Conference Series: Earth and Environmental Science, 2019, 295, 032041.	0.2	0
2677	Pressure effect on Kohn anomaly and electronic topological transition in single-crystal tantalum. Physical Review B, 2019, 100, .	1.1	13
2678	Formation of Iron Hydride and Iron Carbide from Hydrocarbon Systems at Ultra-High Thermobaric Conditions. Geochemistry International, 2019, 57, 1008-1014.	0.2	7
2679	Pressure-induced order-disorder transition in Gd _{1.5} Ce _{0.5} Ti ₂ O ₇ pyrochlore. Royal Society Open Science, 2019, 6, 190842.	1.1	3
2680	High pressure phase transitions of paracelsian BaAl ₂ Si ₂ O ₈ . Scientific Reports, 2019, 9, 12652.	1.6	16
2681	Structural Phase Transition, Optical and Electrical Property Evolutions of Thiospinel AgIn ₅ S ₈ under High Pressure. Inorganic Chemistry, 2019, 58, 12628-12634.	1.9	12
2682	High-pressure phase stability and elasticity of ammonia hydrate. American Mineralogist, 2019, 104, 1307-1314.	0.9	9
2683	Hydrostaticity of pressure-transmitting media for high pressure infrared spectroscopy. High Pressure Research, 2019, 39, 608-618.	0.4	44
2684	Robust magnetoresistance in TaAs ₂ under pressure up to about 37 GPa. Applied Physics Letters, 2019, 115, 122403.	1.5	5
2685	3D Strain in 2D Materials: To What Extent is Monolayer Graphene Graphite?. Physical Review Letters, 2019, 123, 135501.	2.9	35
2686	Universal Gas-Uptake Behavior of a Zeolitic Imidazolate Framework ZIF-8 at High Pressure. Journal of Physical Chemistry C, 2019, 123, 25769-25774.	1.5	10
2687	Ultrastable phonon frequencies in \pm -quartz-type BPO ₄ at high temperature. Applied Physics Letters, 2019, 115, .	1.5	3
2688	Compression Behavior of Copper Hydroxyfluoride CuOHF as a Case Study of the High-Pressure Responses of the Hydrogen-Bonded Two-Dimensional Layered Materials. Journal of Physical Chemistry C, 2019, 123, 25492-25500.	1.5	6
2689	A versatile diamond anvil cell for X-ray inelastic, diffraction and imaging studies at synchrotron facilities. Review of Scientific Instruments, 2019, 90, 095107.	0.6	3
2690	Controlled Single-Crystalline Polymerization of C ₁₀ H ₈ -C ₁₀ F ₈ under Pressure. Macromolecules, 2019, 52, 7557-7563.	2.2	33
2691	Recent advances in organic pressure-responsive luminescent materials. Chinese Chemical Letters, 2019, 30, 1883-1894.	4.8	44
2692	Pressure-driven band gap engineering in ion-conducting semiconductor silver orthophosphate. Journal of Materials Chemistry A, 2019, 7, 4451-4458.	5.2	5
2693	Combining X-ray K _L ² , valence-to-core, and X-ray Raman spectroscopy for studying Earth materials at high pressure and temperature: the case of siderite. Journal of Analytical Atomic Spectrometry, 2019, 34, 384-393.	1.6	17

#	ARTICLE	IF	CITATIONS
2694	High-pressure in-situ X-ray diffraction and Raman spectroscopy of Ca ₂ AlFeO ₅ brownmillerite. High Pressure Research, 2019, 39, 92-105.	0.4	4
2695	Giant enhancements in electronic transport and photoelectric properties of bismuth oxysulfide by pressure-driven 2D→3D structural reconstruction. Journal of Materials Chemistry A, 2019, 7, 4019-4025.	5.2	35
2696	Ultrahigh-pressure form of SiO_2 glass with dense pyrite-type crystalline homology. Physical Review B, 2019, 99, .	1.1	44
2697	Polyamorphic transition in a transition metal based metallic glass under high pressure. Physical Review B, 2019, 99, .	1.1	15
2698	<i>In situ</i> analysis of the structural transformation of glassy carbon under compression at room temperature. Physical Review B, 2019, 99, .	1.1	21
2699	Thermal Conductivity Anomaly in (Fe _{0.78} Mg _{0.22})CO ₃ Siderite Across Spin Transition of Iron. Journal of Geophysical Research: Solid Earth, 2019, 124, 1388-1396.	1.4	9
2700	Modulation of the mechanical energy storage performance of the MIL-47(VIV) metal organic framework by ligand functionalization. Dalton Transactions, 2019, 48, 1656-1661.	1.6	16
2701	Negative area compressibility of a hydrogen-bonded two-dimensional material. Chemical Science, 2019, 10, 1309-1315.	3.7	24
2702	Elasticity of single-crystal periclase at high pressure and temperature: The effect of iron on the elasticity and seismic parameters of ferropericlase in the lower mantle. American Mineralogist, 2019, 104, 262-275.	0.9	27
2703	Effect of spin transition of iron on the thermal conductivity of (Fe, Al)-bearing bridgmanite. Earth and Planetary Science Letters, 2019, 520, 188-198.	1.8	13
2704	Equation of state of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ at high pressure. Solid State Communications, 2019, 299, 113656.	0.9	9
2705	Pressure-induced phase transition of La ₂ Zr ₂ O ₇ and La _{0.5} Gd _{1.5} Zr ₂ O ₇ pyrochlore. RSC Advances, 2019, 9, 18954-18962.	1.7	10
2706	How does the flexibility of pyrrolidinium cations affect the phase behaviour of 1-alkyl-1-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide homologues under stressful conditions?. Physical Chemistry Chemical Physics, 2019, 21, 11290-11297.	1.3	5
2707	Vibrational dynamics of confined supercooled water. Journal of Chemical Physics, 2019, 150, 224504.	1.2	13
2708	Inverse pressure-induced Mott transition in TiPO ₄ . Physical Review B, 2019, 99, .	1.1	2
2709	High-pressure phase transitions of clinoenstatite. American Mineralogist, 2019, 104, 897-904.	0.9	9
2710	Compressibility and structure behaviour of maruyamaite (K-tourmaline) from the Kokchetav massif at high pressure up to 20 GPa. Mineralogy and Petrology, 2019, 113, 613-623.	0.4	9
2711	Structure and Electrical Performance of Na ₂ C ₆ O ₆ under High Pressure. Journal of Physical Chemistry C, 2019, 123, 17163-17169.	1.5	3

#	ARTICLE	IF	CITATIONS
2712	Elastic anisotropy and single-crystal moduli of solid argon up to 64 ÅPa from time-domain Brillouin scattering. <i>Physical Review B</i> , 2019, 99, .	1.1	10
2713	Insertion and Confinement of H ₂ O in Hydrophobic Siliceous Zeolites at High Pressure. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17432-17439.	1.5	8
2714	Comparative study on the pressure-induced phase transformation of anatase TiO ₂ hollow and solid microspheres. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 395403.	0.7	2
2715	Penta- and hexa-coordinated beryllium and phosphorus in high-pressure modifications of CaBe ₂ P ₂ O ₈ . <i>Nature Communications</i> , 2019, 10, 2800.	5.8	20
2716	Allanite at high pressure: effect of REE on the elastic behaviour of epidote-group minerals. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 783-793.	0.3	4
2717	The high-pressure and low-temperature structural behaviour of 2,2,2-trifluoroethanol. <i>CrystEngComm</i> , 2019, 21, 4501-4506.	1.3	5
2718	Post-tilleyite, a dense calcium silicate-carbonate phase. <i>Scientific Reports</i> , 2019, 9, 7898.	1.6	18
2719	Pressure-Induced Phase Transition and Band Gap Engineering in Propylammonium Lead Bromide Perovskite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15204-15208.	1.5	18
2720	Optical signatures of energy gap in correlated Dirac fermions. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	16
2721	Raman study of pressure-induced dissociative transitions in nitrogen. <i>Solid State Communications</i> , 2019, 298, 113645.	0.9	9
2722	Pressure-induced reentrant transition in $S\text{Nb}_3$ phases: Combined Raman scattering and x-ray diffraction study. <i>Physical Review B</i> , 2019, 99, .	1.1	5
2723	Structure and disorder in ice VII on the approach to hydrogen-bond symmetrization. <i>Physical Review B</i> , 2019, 99, .	1.1	20
2724	Gold(<i>scpi</i>) sulfide: unusual bonding and an unexpected computational challenge in a simple solid. <i>Chemical Science</i> , 2019, 10, 6467-6475.	3.7	12
2725	Sound Velocities and Elastic Moduli of Phases I and V of Silicon at High Pressures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900173.	1.2	2
2726	Study of LaFeO ₃ perovskite material by high-pressure Raman scattering. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 496, 012045.	0.3	2
2727	High pressure structural investigations on K ₂ Zr(PO ₄) ₂ . <i>Journal of Solid State Chemistry</i> , 2019, 276, 251-260.	1.4	4
2728	Pressure Effects on the Optical Properties of NdVO ₄ . <i>Crystals</i> , 2019, 9, 237.	1.0	12
2729	Pressure-Induced Structural Phase Transition and a Special Amorphization Phase of Two-Dimensional Ferromagnetic Semiconductor Cr ₂ Ge ₂ Te ₆ . <i>Journal of Physical Chemistry C</i> , 2019, 123, 13885-13891.	1.5	35

#	ARTICLE	IF	CITATIONS
2730	Thermal Conductivity Enhancement in MoS_2 under Extreme Strain. <i>Physical Review Letters</i> , 2019, 122, 155901.	23.0	164
2731	Pressure Induced Nanoparticle Phase Behavior, Property, and Applications. <i>Chemical Reviews</i> , 2019, 119, 7673-7717.	23.0	164
2732	XAS studies of pressure-induced structural and electronic transformations in FeOOH . <i>Journal of Physics Condensed Matter</i> , 2019, 31, 325401.	0.7	2
2733	Equation of state of LiCoO_2 under 30 GPa pressure. <i>Chinese Physics B</i> , 2019, 28, 016402.	0.7	6
2734	High-pressure, high-temperature molecular doping of nanodiamond. <i>Science Advances</i> , 2019, 5, eaau6073.	4.7	40
2735	Carbonation of Chrysotile under Subduction Conditions. <i>Engineering</i> , 2019, 5, 490-497.	3.2	1
2736	Differential penetration of ethanol and water in Si-chabazite: High pressure dehydration of azeotrope solution. <i>Microporous and Mesoporous Materials</i> , 2019, 284, 161-169.	2.2	15
2737	High-Pressure Single-Crystal X-ray Diffraction of Lead Chromate: Structural Determination and Reinterpretation of Electronic and Vibrational Properties. <i>Inorganic Chemistry</i> , 2019, 58, 5966-5979.	1.9	13
2738	Fermions and bosons in nonsymmorphic PdSb_2 with sixfold degeneracy. <i>Physical Review B</i> , 2019, 99, .	1.1	24
2739	High-Pressure Induced Phase Transitions in High-Entropy Alloys: A Review. <i>Entropy</i> , 2019, 21, 239.	1.1	24
2740	Giant conductivity enhancement: Pressure-induced semiconductor-metal phase transition in $\text{Cd}_0.9\text{OZn}_0.1\text{Te}$. <i>Physical Review B</i> , 2019, 99, .	1.1	6
2741	Helium-hydrogen immiscibility at high pressures. <i>Journal of Chemical Physics</i> , 2019, 150, 114504.	1.2	5
2742	Modulation of piezochromic fluorescence behavior by subtle structural change. <i>Dyes and Pigments</i> , 2019, 166, 301-306.	2.0	6
2743	Vibrational properties of CdGa_2S_4 at high pressure. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	7
2744	Pressure-induced evolution of structural and electronic properties in TiTe_2 . <i>Physical Review B</i> , 2019, 99, .	1.1	12
2745	Infrared spectroscopic measurements of structural transition and charge dynamics in TiTe_2 under pressure. <i>Physical Review B</i> , 2019, 99, .	1.1	8
2746	Pressure-Induced Polymerization and Electrical Conductivity of a Polyiodide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6625-6629.	7.2	24
2747	An infrared and Raman spectroscopic study of PbSO_4 -anglesite at high pressures. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 623-637.	0.3	7

#	ARTICLE	IF	CITATIONS
2748	High-Pressure Behavior of C2I2 and Polymerization to a Conductive Polymer. Journal of Physical Chemistry C, 2019, 123, 11369-11377.	1.5	14
2749	Plasmons in Li under compression. Journal of Physics Condensed Matter, 2019, 31, 185501.	0.7	0
2750	Sound velocities across calcite phase transitions by Brillouin scattering spectroscopy. American Mineralogist, 2019, 104, 418-424.	0.9	5
2751	Stability of Zirconium Carbide under High Pressure and High Temperature. Journal of Physical Chemistry C, 2019, 123, 10051-10056.	1.5	13
2752	Anisotropic compressional behavior of ettringite. Cement and Concrete Research, 2019, 120, 46-51.	4.6	16
2753	Band gap closure, incommensurability and molecular dissociation of dense chlorine. Nature Communications, 2019, 10, 1134.	5.8	13
2754	Pressure-Induced Polymerization and Electrical Conductivity of a Polyiodide. Angewandte Chemie, 2019, 131, 6697-6701.	1.6	3
2755	Mechanical properties of boron arsenide single crystal. Applied Physics Letters, 2019, 114, .	1.5	31
2756	Polymerized 4-Fold Coordinated Carbonate Melts in the Deep Mantle. Frontiers in Earth Science, 2019, 7, .	0.8	3
2757	Structural Studies on the Cu-H System under Compression. Engineering, 2019, 5, 505-509.	3.2	7
2758	The experimental compression behavior of platinum hydride to 128 GPa. Materials Letters, 2019, 249, 84-86.	1.3	5
2759	Drastic photoluminescence modulation of an organic molecular crystal with high pressure. Materials Chemistry Frontiers, 2019, 3, 1510-1517.	3.2	17
2760	New insights on the GeSe ₂ -Te ₂ phase diagram from theory and experiment. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2019, 75, 246-256.	0.5	6
2761	An in situ Raman study on katoite Ca ₃ Al ₂ (O ₄ H ₄) ₃ at high pressure. Journal of Mineralogical and Petrological Sciences, 2019, 114, 18-25.	0.4	2
2762	High pressure behavior of mercury difluoride (HgF ₂). Chemical Physics Letters, 2019, 724, 35-41.	1.2	7
2763	High-pressure characterization of the optical and electronic properties of InVO ₄ , InNbO ₄ , and InTaO ₄ . SN Applied Sciences, 2019, 1, 1.	1.5	42
2764	Phase transitions and chemical reactions of octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine under high pressure and high temperature. RSC Advances, 2019, 9, 5825-5833.	1.7	21
2765	Crossover in the pressure evolution of elementary distortions in R ₃ Fe ₃ O ₇ perovskites and its impact on their phase transition. Physical Review B, 2019, 99, .	1.1	21

#	ARTICLE	IF	CITATIONS
2766	Velocity-Density Systematics of Fe ₅ wt%Si: Constraints on Si Content in the Earth's Inner Core. Journal of Geophysical Research: Solid Earth, 2019, 124, 3436-3447.	1.4	23
2767	Short N _A -N and CH _A -N Contacts in the Ambient and High-Pressure Polymorphs of a High-Nitrogen-Content Compound. Crystal Growth and Design, 2019, 19, 1832-1838.	1.4	10
2768	The fate of carbonate in oceanic crust subducted into earth's lower mantle. Earth and Planetary Science Letters, 2019, 511, 213-222.	1.8	28
2769	Pressure-Induced Emission Enhancement and Piezochromism of Triphenylethylene. Journal of Physical Chemistry C, 2019, 123, 6763-6767.	1.5	38
2770	Pressure-induced metallization in MoSe ₂ under different pressure conditions. RSC Advances, 2019, 9, 5794-5803.	1.7	26
2771	Superconductivity in Topological Semimetal $\hat{1}$ -TaN at High Pressure [*] . Chinese Physics Letters, 2019, 36, 087401.	1.3	10
2772	Mechanisms of Pressure-Induced Phase Transitions by Real-Time Laue Diffraction. Crystals, 2019, 9, 672.	1.0	7
2773	Oxidation of High Yield Strength Metals Tungsten and Rhenium in High-Pressure High-Temperature Experiments of Carbon Dioxide and Carbonates. Crystals, 2019, 9, 676.	1.0	10
2774	The High-Pressure Structural Evolution of Olivine along the Forsterite-Fayalite Join. Minerals (Basel), 2019, 9, 12.	0.8	12
2775	Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. Physical Review B, 2019, 100, .	1.1	19
2776	Quasi-hydrostatic equation of state of silicon up to 1 megabar at ambient temperature. Scientific Reports, 2019, 9, 15537.	1.6	14
2777	First-Principles Study on Crystal Configuration and Many-Body Cohesive Energy of Solid Argon. Key Engineering Materials, 0, 807, 135-140.	0.4	0
2778	Pressure-induced electronic anomaly and multiband superconductivity in the doped topological insulator $N_bx_2Sb_{1-x}$. Scientific Reports, 2019, 9, 15537.	1.1	7
2779	Experimental observations of large changes in electron density distributions in $\hat{1}$ -Ge. Physical Review B, 2019, 100, .	1.1	3
2780	High-Pressure Synthesis of Novel Polyhydrides of Zr and Hf with a Th ₄ H ₁₅ -Type Structure. Journal of Physical Chemistry C, 2019, 123, 30059-30066.	1.5	14
2781	Pressure-Induced Polymerization of Monosodium Acetylide: A Radical Reaction Initiated Topochemically. Journal of Physical Chemistry C, 2019, 123, 30746-30753.	1.5	13
2782	Real time study of grain enlargement in zirconium under room-temperature compression across the $\hat{1}$ to $\hat{1}$ phase transition. Scientific Reports, 2019, 9, 15712.	1.6	4
2783	Effect of pressure on structural and electronic properties of the noncentrosymmetric superconductor Rh ₂ Mo ₃ N. Physical Review B, 2019, 100, .	1.1	4

#	ARTICLE	IF	CITATIONS
2784	Optical access to multi-anvil apparatus with ultrasonic method under high-pressure environment. Review of Scientific Instruments, 2019, 90, 114502.	0.6	1
2785	High-Pressure Synthesis and Crystal Structure of MoC-Type Tungsten Nitride by Nitridation with Ammonium Chloride. Inorganic Chemistry, 2019, 58, 16379-16386.	1.9	10
2786	Parallel background subtraction in diamond anvil cells for high pressure X-ray data analysis. High Pressure Research, 2019, 39, 628-639.	0.4	2
2787	Pressure-induced large enhancement of Néel temperature and electric polarization in the hexagonal multiferroic $L\text{u}_{1-x}\text{U}_x\text{Mn}_2\text{O}_7$. Physical Review B, 2019, 100, 104411.	1.1	15
2788	A High-Pressure Investigation of the Synthetic Analogue of Chalcocite, $\text{CuSeO}_3 \cdot 2\text{H}_2\text{O}$. Crystals, 2019, 9, 643.	1.0	8
2789	Abnormal physical behaviors of hafnium diboride under high pressure. Applied Physics Letters, 2019, 115, .	1.5	15
2790	Pressure-induced structural and electronic transitions of thiospinel Fe_3S_4 . Journal of Physics Condensed Matter, 2019, 31, 095401.	0.7	2
2791	High pressure structural investigations on hexagonal YInO_3 . High Pressure Research, 2019, 39, 17-35.	0.4	6
2792	Pressure-induced dehydration of diopside: A single-crystal X-ray diffraction and Raman spectroscopy study. Comptes Rendus - Geoscience, 2019, 351, 121-128.	0.4	0
2793	Compression of Hydrogen-Bonded Layers in Imidazolidine-2-thione. Crystal Growth and Design, 2019, 19, 285-290.	1.4	2
2794	Observation of superconductivity in the pressurized Weyl-semimetal candidate TaIrTe_4 . Physical Review B, 2019, 99, .	1.1	20
2795	Reaction of Q to thermal metamorphism in parent bodies: Experimental simulation. Meteoritics and Planetary Science, 2019, 54, 558-572.	0.7	1
2796	Record High Superconductivity in Niobium-Titanium Alloy. Advanced Materials, 2019, 31, e1807240.	11.1	27
2797	Pressure-induced Lifshitz transition in the type II Dirac semimetal PtTe_2 . Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	13
2798	The effect of high pressure on the structure and stability of sodium formate: Probed by in situ synchrotron X-ray diffraction technique. Solid State Communications, 2019, 289, 67-70.	0.9	2
2799	Optical Pressure Sensor Based on the Emission and Excitation Band Width (fwhm) and Luminescence Shift of Ce^{3+} -Doped Fluorapatite High-Pressure Sensing. ACS Applied Materials & Interfaces, 2019, 11, 4131-4138.	4.0	88
2800	Kinetic Control on the Depth Distribution of Superdeep Diamonds. Geophysical Research Letters, 2019, 46, 1984-1992.	1.5	8
2801	High-pressure single-crystal X-ray diffraction and synchrotron Mössbauer study of monoclinic ferrosilite. Comptes Rendus - Geoscience, 2019, 351, 129-140.	0.4	6

#	ARTICLE	IF	CITATIONS
2802	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy. Scripta Materialia, 2019, 161, 88-92.	2.6	33
2803	High pressure synchrotron x-ray diffraction study of the Mn _{0.94} Ti _{0.06} CoGe alloy. Physica B: Condensed Matter, 2019, 554, 5-8.	1.3	1
2804	High-Pressure Structure and Properties of <i>n</i> -Dimethylformamide (DMF). Crystal Growth and Design, 2019, 19, 896-901.	1.4	8
2805	Three Topological Isomers of 1D- and 2D-Coordination Polymers Consisting of Tricopper Pyrazolate SBUs and 4,4'-Trimethylenedipyridine Linkers: Effect of Pressure on the Structure. Crystal Growth and Design, 2019, 19, 381-390.	1.4	13
2806	Pressure-Driven Reversible Switching between <i>n</i> - and <i>p</i> -Type Conduction in Chalcopyrite CuFeS ₂ . Journal of the American Chemical Society, 2019, 141, 505-510.	6.6	36
2807	From high pressure radial collapse to graphene ribbon formation in triple-wall carbon nanotubes. Carbon, 2019, 141, 568-579.	5.4	31
2808	High pressure study of nitrogen doped carbon nanotubes using Raman spectroscopy and synchrotron X-ray diffraction. Arabian Journal of Chemistry, 2020, 13, 3008-3016.	2.3	6
2809	Raman spectroscopy on hydrogenated graphene under high pressure. Carbon, 2020, 156, 549-557.	5.4	18
2810	The elastic behavior of zeolitic frameworks: The case of MFI type zeolite under high-pressure methanol intrusion. Catalysis Today, 2020, 345, 88-96.	2.2	5
2811	Experimental and theoretical study on elastic properties of crystalline alkali silicate hydrate. Materials and Design, 2020, 185, 108240.	3.3	1
2812	Pressure-induced structural transitions and metallization in hollow ZnMn ₂ O ₄ microspheres. Journal of Alloys and Compounds, 2020, 818, 152881.	2.8	6
2813	Pressure and temperature optical sensors: luminescence of lanthanide-doped nanomaterials for contactless nanomanometry and nanothermometry. , 2020, , 227-273.		20
2814	Single-crystal diffraction at the high-pressure Indo-Italian beamline Xpress at Elettra, Trieste. Journal of Synchrotron Radiation, 2020, 27, 222-229.	1.0	31
2815	Orpiment under compression: metavalent bonding at high pressure. Physical Chemistry Chemical Physics, 2020, 22, 3352-3369.	1.3	20
2816	Pressure-induced band-gap closure and metallization in two-dimensional transition metal halide CdI ₂ . Applied Materials Today, 2020, 18, 100532.	2.3	9
2817	High-pressure topological transport study of Bi ₂ Se ₃ single crystal. Applied Surface Science, 2020, 507, 145052.	3.1	4
2818	High-pressure responses of alkali metal hydrogen carbonates, RbHCO ₃ and CsHCO ₃ : Findings of new phases and unique compressional behavior. Journal of Solid State Chemistry, 2020, 283, 121139.	1.4	4
2819	Experimental and Theoretical Study of SbPO ₄ under Compression. Inorganic Chemistry, 2020, 59, 287-307.	1.9	14

#	ARTICLE	IF	CITATIONS
2820	High-Density COH _x Network Glass. <i>Journal of Physical Chemistry C</i> , 2020, 124, 107-114.	1.5	3
2821	Crossover from two-dimensional to three-dimensional superconducting states in bismuth-based cuprate superconductor. <i>Nature Physics</i> , 2020, 16, 295-300.	6.5	22
2822	High-pressure X-ray diffraction and Mössbauer spectroscopy study of Fe _{1.087} Te. <i>Physica B: Condensed Matter</i> , 2020, 578, 411875.	1.3	0
2823	Dynamics of a room temperature ionic liquid under applied pressure. <i>Chemical Physics</i> , 2020, 530, 110628.	0.9	9
2824	High-pressure structural investigations on InPO ₄ . <i>Journal of Solid State Chemistry</i> , 2020, 282, 121065.	1.4	4
2825	Pressure-Driven Chemical Disorder in Glassy As ₂ S ₃ up to 14.7 GPa, Postdensification Effects, and Applications in Materials Design. <i>Journal of Physical Chemistry B</i> , 2020, 124, 430-442.	1.2	16
2826	Raman spectroscopy and lattice dynamical stability study of 2D ferromagnetic semiconductor Cr ₂ Ge ₂ Te ₆ under high pressure. <i>Journal of Alloys and Compounds</i> , 2020, 819, 153368.	2.8	14
2827	High-pressure, high-temperature phase stability of iron-poor dolomite and the structures of dolomite-IIIc and dolomite-V. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 299, 106403.	0.7	16
2828	Elastic and magnetic properties of Fe ₃ P up to core pressures: Phosphorus in the Earth's core. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115974.	1.8	14
2829	Temperature- and Rate-Dependent Pathways in Formation of Metastable Silicon Phases under Rapid Decompression. <i>Physical Review Letters</i> , 2020, 125, 155702.	2.9	18
2830	High pressure behaviour of tobermorite supergroup minerals: An in situ synchrotron X-ray powder diffraction study. <i>Cement and Concrete Research</i> , 2020, 138, 106249.	4.6	4
2831	Pressure-induced valence transition in the mixed-valence (Sm ^{1/3} Ca ^{2/3}) _{2.75} C ₆₀ fulleride. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3521-3528.	3.2	5
2832	Pressure-induced structural transition and metallization in MnSe ₂ . <i>Physics and Chemistry of Minerals</i> , 2020, 47, 1.	0.3	0
2833	Crystal Growth and Investigation of High-Pressure Physical Properties of Fe ₂ As. <i>Crystals</i> , 2020, 10, 790.	1.0	2
2834	Topaz, a Potential Volatile-Carrier in Cold Subduction Zone: Constraint from Synchrotron X-ray Diffraction and Raman Spectroscopy at High Temperature and High Pressure. <i>Minerals (Basel)</i> , 2020, 10, 1077.	0.8	10
2835	Sequential in situ Raman spectroscopy for observing dissociation behavior of filled C ₆₀ of methane hydrate at high pressure. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2536-2542.	1.2	6
2836	High-pressure phase transition of methane hydrate in water-methane-ammonia system. <i>Journal of Physics: Conference Series</i> , 2020, 1609, 012006.	0.3	1
2837	Pressure-Induced Polymerization of Polycyclic Aromatic Perfluoroarene Cocrystals: Single Crystal X-ray Diffraction Studies, Reaction Kinetics, and Design of Columnar Hydrofluorocarbons. <i>Journal of the American Chemical Society</i> , 2020, 142, 18907-18923.	6.6	47

#	ARTICLE	IF	CITATIONS
2838	Strength enhancement of nanocrystalline tungsten under high pressure. <i>Matter and Radiation at Extremes</i> , 2020, 5, 058401.	1.5	16
2839	High-pressure X-ray diffraction study, optical properties, and applications of CaMoO ₄ :Eu ³⁺ nanosheets in white LEDs. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156473.	2.8	7
2840	Pressure-Engineered Optical and Charge Transport Properties of Mn ²⁺ /Cu ²⁺ Codoped CsPbCl ₃ Perovskite Nanocrystals <i>via</i> Structural Progression. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48225-48236.	4.0	22
2841	Unconventional Superconductivity Induced by Suppressing an Iron-Selenium-Based Mott Insulator $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{CsFe} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle$ <i>Physical Review X</i> , 2020, 10, .	2.8	2
2842	Mott Transition and Superconductivity in Quantum Spin Liquid Candidate NaYbSe ₂ . <i>Chinese Physics Letters</i> , 2020, 37, 097404.	1.3	31
2843	Pressure-Dependent Behavior of Defect-Modulated Band Structure in Boron Arsenide. <i>Advanced Materials</i> , 2020, 32, e2001942.	11.1	18
2844	High-pressure Raman scattering and x-ray diffraction studies of MgTa ₂ O ₆ . <i>AIP Advances</i> , 2020, 10, .	0.6	11
2845	Giant negative thermal expansion across the first-order magnetoelastic transition in Hf _{0.86} Ta _{0.14} Fe ₂ . <i>Journal of Alloys and Compounds</i> , 2020, 845, 156310.	2.8	9
2846	High-pressure structural behavior and elastic properties of U ₃ Si ₅ : A combined synchrotron XRD and DFT study. <i>Journal of Nuclear Materials</i> , 2020, 540, 152373.	1.3	4
2847	Emerging Superconductivity and the Origin of Its Enhancement in Pressurized Topological Nodal-Line Semimetal SrAs ₃ . <i>Advanced Electronic Materials</i> , 2020, 6, 2000293.	2.6	2
2848	Evidence for Functionalized Carbon Nanothreads from π -Stacked, <i>cis</i> -Disubstituted Benzenes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25062-25070.	1.5	14
2849	P_{211}/c Postorthopyroxene $\hat{\text{I}}^3\text{-LiScGe}_2\text{O}_6$, a New Dense High-Pressure Polymorph and Its Direct Transformation from the Pbc Structure. <i>Inorganic Chemistry</i> , 2020, 59, 17981-17991.	1.9	2
2850	Pressure-Induced Phase Transition in Mn(Ta,Nb) ₂ O ₆ : An Experimental Investigation and First-Principle Study. <i>Inorganic Chemistry</i> , 2020, 59, 18122-18130.	1.9	6
2851	Pressure-induced octahedral tilting distortion and structural phase transition in columbite structured NiNb ₂ O ₆ . <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	9
2852	Pressure-Induced Phase Transitions in Danburite-Type Borosilicates. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26048-26061.	1.5	6
2853	Lanthanide Upconverted Luminescence for Simultaneous Contactless Optical Thermometry and Manometry "Sensing under Extreme Conditions of Pressure and Temperature. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40475-40485.	4.0	77
2854	Mechanical behavior and phase change of alkali-silica reaction products under hydrostatic compression. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 674-682.	0.5	11
2855	Long-Range Ordered Amorphous Atomic Chains as Building Blocks of a Superconducting Quasi-One-Dimensional Crystal. <i>Advanced Materials</i> , 2020, 32, e2002352.	11.1	20

#	ARTICLE	IF	CITATIONS
2856	Synthesis and high-pressure studies of strontium diazenide by synchrotron X-ray diffraction and DFT calculations. RSC Advances, 2020, 10, 26308-26312.	1.7	0
2857	Unprecedented metallic BiS phase from the binary Bi-S family revisited under extreme conditions of high pressure and high temperature. Solid State Communications, 2020, 318, 113984.	0.9	0
2858	Vibrational Investigation of Pressure-Induced Phase Transitions of Hydroxycarbonate Malachite Cu ₂ (CO ₃)(OH) ₂ . Minerals (Basel, Switzerland), 2020, 10, 277.	0.8	6
2859	Fermi resonance: A new way to investigate the planarization of p-quaterphenyl under high pressure. Chemical Physics Letters, 2020, 756, 137829.	1.2	0
2860	Electrical transport properties of Weyl semimetal WTe ₂ under high pressure. Journal of Materials Science, 2020, 55, 14873-14882.	1.7	15
2861	Toward an international practical pressure scale: A proposal for an IPPS ruby gauge (IPPS-Ruby2020). High Pressure Research, 2020, 40, 299-314.	0.4	143
2862	Raman and infrared spectra to monitor the phase transition of natural kyanite under static compression. Journal of Raman Spectroscopy, 2020, 51, 2102-2111.	1.2	5
2863	Structural and mechanical properties of magnesium aluminate nanoceramics under high pressure. Applied Physics Letters, 2020, 117, .	1.5	3
2864	New Pressure Stabilization Structure in Two-Dimensional PtSe ₂ . Journal of Physical Chemistry Letters, 2020, 11, 7342-7349.	2.1	15
2865	Pressure-induced phase transition of 1,5-diamino-1 <i>H</i> -tetrazole (DAT) under high pressure. RSC Advances, 2020, 10, 30069-30076.	1.7	8
2866	Pressure-induced assemblies and structures of graphitic-carbon sheet encapsulated Au nanoparticles. Nanoscale, 2020, 12, 17462-17469.	2.8	3
2867	Optical conductivity of the type-II Weyl semimetal WTe ₂ under pressure. Physical Review B, 2020, 102, .	1.1	2
2868	Pressure-dependent Raman scattering of polycrystalline KNb _{1-x} Ta _x O ₃ solid solutions. SN Applied Sciences, 2020, 2, 1.	1.5	2
2869	In situ high-pressure x-ray diffraction of the two polymorphs of Sc ₂ Ge ₂ O ₇ . AIP Advances, 2020, 10, 095209.	0.6	3
2870	Origin of the isostructural electronic states of the topological insulator Bi_2Te_3 . Physical Review B, 2020, 102, .		
2871	Structural Evolution of In_2Se_3 under Pressure. Journal of Physics: Conference Series, 2020, 1622, 012027.	0.3	1
2872	High-pressure behaviour and phase stability of Ca ₂ B ₆ O ₆ (OH) ₁₀ ·2(H ₂ O) (meyerhofferite). Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	6
2873	Spin Transitions and Compressibility of Fe_7N_3 and Fe_4N : Implications for Iron Alloys in Terrestrial Planet Cores. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020660.	1.4	4

#	ARTICLE	IF	CITATIONS
2874	Aberrant electronic and structural alterations in pressure tuned perovskite NaOsO ₃ . Npj Quantum Materials, 2020, 5, .	1.8	4
2875	Nanomechanics of graphene oxide-bacteriophage based self-assembled porous composites. Scientific Reports, 2020, 10, 15618.	1.6	6
2876	Experimental and theoretical evidence of dihydrogen bonds in lithium amidoborane. Scientific Reports, 2020, 10, 17431.	1.6	5
2877	Experimental evidence for silica-enriched Earth's lower mantle with ferrous iron dominant bridgmanite. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27899-27905.	3.3	17
2878	Pressure dependence of the interlayer and intralayer E _{2g} Raman-active modes of hexagonal BN up to the wurtzite phase transition. Physical Review B, 2020, 102, .	1.1	12
2879	Anharmonicity and Universal Response of Linear Carbon Chain Mechanical Properties under Hydrostatic Pressure. Physical Review Letters, 2020, 125, 105501.	2.9	22
2880	A high-pressure study of HfC and nano-crystalline TiC by X-ray diffraction and density functional theory calculations. Modern Physics Letters B, 2020, 34, 2050393.	1.0	7
2881	Pressure induced lattice expansion and phonon softening in layered ReS ₂ . Journal of Applied Physics, 2020, 128, 085904.	1.1	15
2882	Using complementary microanalytical techniques to analyse diamond anvil cell experiments. IOP Conference Series: Materials Science and Engineering, 2020, 891, 012015.	0.3	0
2883	Experimental and theoretical confirmation of an orthorhombic phase transition in niobium at high pressure and temperature. Communications Materials, 2020, 1, .	2.9	46
2884	Homoconjugation in Light-Emitting Poly(phenylene methylene)s: Origin and Pressure-Enhanced Photoluminescence. Macromolecules, 2020, 53, 7519-7527.	2.2	16
2885	Pressure Induced Spin Crossover and Magnetic Properties of Multiferroic Ba ₃ NbFe ₃ Si ₂ O ₁₄ . Molecules, 2020, 25, 3808.	1.7	2
2886	Thermal Pressure in the Laser-Heated Diamond Anvil Cell: A Quantitative Study and Implications for the Density Versus Mineralogy Correlation of the Mantle. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020006.	1.4	6
2887	High-pressure behavior and phase stability of Na ₂ B ₄ O ₆ (OH) ₂ ·3H ₂ O (kernite). Journal of the American Ceramic Society, 2020, 103, 5291-5301.	1.9	11
2888	Piezochromism in the magnetic chalcogenide MnPS ₃ . Npj Quantum Materials, 2020, 5, .	1.8	26
2889	Phase Stability of Natural Ni _{0.75} Mg _{0.22} Ca _{0.03} CO ₃ Gaspeite Mineral at High Pressure and Temperature. Journal of Physical Chemistry C, 2020, 124, 19781-19792.	1.5	9
2890	High-Pressure Raman Study of Fe(IO ₃) ₃ : Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. Journal of Physical Chemistry C, 2020, 124, 21329-21337.	1.5	21
2891	Structural phase transitions in yttrium up to 183 GPa. Physical Review B, 2020, 102, .	1.1	22

#	ARTICLE	IF	CITATIONS
2892	Pressure-stabilized divalent ozonide CaO ₃ and its impact on Earth's oxygen cycles. Nature Communications, 2020, 11, 4702.	5.8	20
2893	Experimental evidence for orthorhombic $\sqrt{3}\times\sqrt{3}\times 1$ crystal structure in elemental yttrium above 100 GPa. Physical Review B, 2020, 102, .	1.1	10
2894	X-ray diffraction and Raman spectra of merrillite at high pressures. High Pressure Research, 2020, 40, 411-422.	0.4	2
2895	Band gap crossover and insulator-metal transition in the compressed layered CrPS ₄ . Npj Quantum Materials, 2020, 5, .	1.8	23
2896	Raman studies of hydrogen trapped in As ₄ O ₆ ·2H ₂ at high pressure and low temperature. Journal of Chemical Physics, 2020, 153, 054501.	1.2	3
2897	Phase Stability and Vibrational Properties of Iron-Bearing Carbonates at High Pressure. Minerals (Basel, Switzerland), 2020, 10, 1142.	0.8	11
2898	A Combinatory Package for Diamond Anvil Cell Experiments. Crystals, 2020, 10, 1116.	1.0	8
2899	Structural Study of $\sqrt{3}\times\sqrt{3}\times 1$ -AlOOH Up to 29 GPa. Minerals (Basel, Switzerland), 2020, 10, 1055.	0.8	8
2900	Effect of Ammonia on Methane Hydrate Stability under High-Pressure and High-Temperature Conditions. Journal of Physical Chemistry A, 2020, 124, 10890-10896.	1.1	3
2901	Elevating the magnetic exchange coupling in the compressed antiferromagnetic axion insulator candidate $\sqrt{3}\times\sqrt{3}\times 1$ EuIn_2S_8 . Physical Review B, 2020, 102, .	1.1	18
2902	Tuning the structure of the skyrmion lattice system Cu ₂ OSeO ₃ under pressure. Physical Review B, 2020, 102, .	1.1	1
2903	Compression of sodium-filled and empty open-framework $\sqrt{3}\times\sqrt{3}\times 1$ Si_2N_4 quasi-hydrostatic and nonhydrostatic conditions. Physical Review B, 2020, 102, .	1.1	1
2904	Anomalous mechanical materials squeezing three-dimensional volume compressibility into one dimension. Nature Communications, 2020, 11, 5593.	5.8	19
2905	Stability of methane hydrate at high-pressure and high-temperature of up to 40 GPa and 573 K. Journal of Physics: Conference Series, 2020, 1609, 012007.	0.3	1
2906	Wardite (NaAl ₃ (PO ₄) ₂ (OH) ₄ ·2H ₂ O) at High Pressure: Compressional Behavior and Structure Evolution. Minerals (Basel, Switzerland), 2020, 10, 877.	0.8	0
2907	Structural Modifications of Single-Crystal Aragonite CaCO ₃ Beginning at ~15 GPa: In Situ Vibrational Spectroscopy and X-Ray Diffraction Evidence. Minerals (Basel, Switzerland), 2020, 10, 924.	0.8	7
2908	Equation of state of LiNi _{0.5} Mn _{1.5} O ₄ at high pressure. Solid State Communications, 2020, 321, 114045.	0.9	2
2909	Pressure induced phase transitions in BaZr(PO ₄) ₂ studied using x-ray diffraction, Raman spectroscopy, and first principles calculations. Journal of Applied Physics, 2020, 127, .	1.1	2

#	ARTICLE	IF	CITATIONS
2910	Structural Phase Transition in Antiferromagnet CeCoSi Compared to Isostructural LaCoSi and PrCoSi. Journal of the Physical Society of Japan, 2020, 89, 054702. Properties and phase diagram of CeCoSi	0.7	8
2911	H^2 Physical Review B, 2020, 101, . Physical Review B, 2020, 101, .	1.1	14
2913	High pressure and elastic properties of a guanidinium-formate hybrid perovskite. Dalton Transactions, 2020, 49, 7228-7233.	1.6	11
2914	The mechanical response of glassy carbon recovered from high pressure. Journal of Applied Physics, 2020, 127, .	1.1	6
2915	Raman spectroscopic constraints on compression and metastability of the amphibole tremolite at high pressures and temperatures. Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	5
2916	Optical signatures of phase transitions and structural modulation in elemental tellurium under pressure. Physical Review B, 2020, 101, .	1.1	3
2917	Pressure-induced isostructural phase transition in Ti_3AlC_2 : experimental and theoretical investigation. Physical Chemistry Chemical Physics, 2020, 22, 13136-13142.	1.3	5
2918	Pressure-induced tuning of quantum spin liquid state in ZnCu_3 Physical Review B, 2020, 101, .		
2919	Compression behavior of dense H^2 mixtures up to 160 GPa. Physical Review B, 2020, 101, .	1.1	5
2920	Structural and vibrational behavior of cubic $\text{Cu}_{1.80(3)}\text{Se}$ cuprous selenide, berzelianite, under compression. Journal of Alloys and Compounds, 2020, 830, 154646.	2.8	1
2921	Pressure-induced instability of the fergusonite phase of EuNbO_4 studied by <i>in situ</i> Raman spectroscopy, x-ray diffraction, and photoluminescence spectroscopy. Journal of Applied Physics, 2020, 127, .	1.1	14
2922	Polymorphism of feldspars above 10 GPa. Nature Communications, 2020, 11, 2721.	5.8	16
2923	High-Pressure Raman and Infrared Spectroscopic Study of Prehnite. Minerals (Basel, Switzerland), 2020, 10, 312.	0.8	6
2924	Pressure-Driven Eu^{2+} -Doped $\text{BaLi}_2\text{Al}_2\text{Si}_2\text{N}_6$: A New Color Tunable Narrow-Band Emission Phosphor for Spectroscopy and Pressure Sensor Applications. Advanced Functional Materials, 2020, 30, 2001384.	7.8	63
2925	Temperature-dependent kinetic pathways featuring distinctive thermal-activation mechanisms in structural evolution of ice VII. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15437-15442.	3.3	9
2926	Pressure-Induced Topological and Structural Phase Transitions in an Antiferromagnetic Topological Insulator*. Chinese Physics Letters, 2020, 37, 066401.	1.3	50
2927	Synthesis and characterization of $\text{Pt}(\text{Cu}_{0.67}\text{Sn}_{0.33})$. Solid State Sciences, 2020, 105, 106282.	1.5	1
2928	Consecutive and Extensive Transition of Luminescent Color of an Organic Solid Material by Applying High Pressure. Journal of Physical Chemistry C, 2020, 124, 14911-14917.	1.5	4

#	ARTICLE	IF	CITATIONS
2948	Effects of composition and pressure on electronic states of iron in bridgmanite. <i>American Mineralogist</i> , 2020, 105, 1030-1039.	0.9	7
2949	The electronic structure, surface properties, and <i>in situ</i> N ₂ O decomposition of mechanochemically synthesised LaMnO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18774-18787.	1.3	10
2950	Highly tunable properties in pressure-treated two-dimensional Dionâ€“Jacobson perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16121-16126.	3.3	35
2951	Correlation between Fermi surface reconstruction and superconductivity in pressurized $\text{FeTe}_{1-x}\text{Se}_x$. <i>Physical Review B</i> , 2020, 101, .	1.1	16
2952	Temperature and pressure manipulation of magnetic ordering and phonon dynamics with phase transition in multiferroic GdFeO_3 : Evidence from Raman scattering. <i>Physical Review B</i> , 2020, 102, .	1.9	31
2953	Characterization and Decomposition of the Natural van der Waals SnSb_2Te_4 under Compression. <i>Inorganic Chemistry</i> , 2020, 59, 9900-9918.	1.2	6
2954	CdSe-Based Quantum Dots as In Situ Pressure and Temperature Non-intrusive Sensors in Elastohydrodynamic Contacts. <i>Tribology Letters</i> , 2020, 68, 1.	1.9	26
2955	Structural and Lattice-Dynamical Properties of Tb_2O_3 under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. <i>Inorganic Chemistry</i> , 2020, 59, 9648-9666.	1.9	7
2956	Magnetic Network on Demand: Pressure Tunes Square Lattice Coordination Polymers Based on $[\text{Cu}(\text{pyrazine})_2]^{2+}$. <i>Inorganic Chemistry</i> , 2020, 59, 10091-10098.	0.3	4
2957	Thermal stability and compressibility of bastnaesite. <i>Physics and Chemistry of Minerals</i> , 2020, 47, 1.	1.5	22
2958	Spin Transition of Iron in $\hat{\Gamma}_6(\text{Al,Fe})\text{OOH}$ Induces Thermal Anomalies in Earth's Lower Mantle. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087036.	1.7	9
2959	Solidâ€“State Dynamics and Highâ€“Pressure Studies of a Supramolecular Spiral Gear. <i>Chemistry - A European Journal</i> , 2020, 26, 5061-5069.	0.4	16
2960	Developments of nano-polycrystalline diamond anvil cells for neutron diffraction experiments. <i>High Pressure Research</i> , 2020, 40, 184-193.	4.7	26
2961	Facile diamond synthesis from lower diamondoids. <i>Science Advances</i> , 2020, 6, eaay9405.	1.1	9
2962	Observation of superconductivity accompanying the pressure-induced structural phase transition in LaSb. <i>Physical Review B</i> , 2020, 101, .	0.9	4
2963	Raman spectroscopy and phase stability of $\hat{\Gamma}_2\text{-N}_2$. <i>Solid State Communications</i> , 2020, 310, 113843.	0.8	7
2964	Elastic properties of single crystal $\text{Bi}_{12}\text{SiO}_{20}$ as a function of pressure and temperature and acoustic attenuation effects in $\text{Bi}_{12}\text{MO}_{20}$ (M=Asi, Ge and Ti). <i>Materials Research Express</i> , 2020, 7, 025701.	0.8	14
2965	High pressure anomalies in exfoliated MoSe_2 : resonance Raman and x-ray diffraction studies. <i>Materials Research Express</i> , 2020, 7, 025902.		

#	ARTICLE	IF	CITATIONS
2966	Thermal conductivity of dense hcp iron: Direct measurements using laser heated diamond anvil cell. <i>Geoscience Frontiers</i> , 2020, 11, 1755-1761.	4.3	20
2967	Study on the High-Pressure Behavior of Goethite up to 32 GPa Using X-Ray Diffraction, Raman, and Electrical Impedance Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 99.	0.8	6
2968	Pressure-Promoted Solvation of Resorcinol. <i>Crystal Growth and Design</i> , 2020, 20, 3112-3118.	1.4	7
2969	Experimental and simulation study of the high-pressure behavior of squalane and poly- α -olefins. <i>Journal of Chemical Physics</i> , 2020, 152, 074504.	1.2	22
2970	Sequential Spin State Transition and Intermetallic Charge Transfer in PbCoO_3 . <i>Journal of the American Chemical Society</i> , 2020, 142, 5731-5741.	6.6	35
2971	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. <i>Physical Review B</i> , 2020, 101, .	1.1	17
2972	Annealing of ion tracks in apatite under pressure characterized in situ by small angle x-ray scattering. <i>Scientific Reports</i> , 2020, 10, 1367.	1.6	2
2973	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. <i>Physical Review B</i> , 2020, 101, .	1.1	24
2974	Structural interpretation of the energetic performances of a pure silica LTA-type zeolite. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5178-5187.	1.3	11
2975	Nanoarchitecture through Strained Molecules: Cubane-Derived Scaffolds and the Smallest Carbon Nanothreads. <i>Journal of the American Chemical Society</i> , 2020, 142, 17944-17955.	6.6	32
2976	Highlighting the impact of shear strain on the SiO_2 glass structure: From experiments to atomistic simulations. <i>Journal of Non-Crystalline Solids</i> , 2020, 533, 119898.	1.5	16
2977	Selected Negative Linear Compressibilities in the Metal-Organic Framework of $[\text{Cu}(\text{4,4}'\text{-bpy})_2(\text{H}_2\text{O})_2]\text{SiF}_6$. <i>Inorganic Chemistry</i> , 2020, 59, 1715-1722.	1.9	19
2978	Pressure-induced anomalous behavior of thaumasite crystal. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3763-3775.	1.9	3
2979	Optical Vacuum Sensor Based on Lanthanide Upconversion Luminescence Thermometry as a Tool for Ultralow Pressure Sensing. <i>Advanced Materials Technologies</i> , 2020, 5, 1901091.	3.0	102
2980	Pressure-Induced Superconductivity in Topological Semimetal Candidate TaTe_4 . <i>Advanced Electronic Materials</i> , 2020, 6, 1901260.	2.6	8
2981	Enhanced Structural Stability of Sb_2Se_3 via Pressure-Induced Alloying and Amorphization. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3421-3428.	1.5	8
2982	High pressure photoluminescence properties and structural stability of Eu doped AlN nanowires synthesized via a direct nitridation strategy. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153804.	2.8	8
2983	Crystallography of low Z material at ultrahigh pressure: Case study on solid hydrogen. <i>Matter and Radiation at Extremes</i> , 2020, 5, .	1.5	15

#	ARTICLE	IF	CITATIONS
2984	Raman spectroscopy and X-ray diffraction of pressure-induced reversible structure change in K ₂ OsO ₂ (OH) ₄ . Journal of Raman Spectroscopy, 2020, 51, 1240-1247.	1.2	4
2985	A high-pressure study of Cr ₃ C ₂ by XRD and DFT. Chinese Physics B, 2020, 29, 086401.	0.7	3
2986	Structure and Behavior of the Ni End-Member Schreibersite Ni ₃ P under Compression to 50 GPa. Minerals (Basel, Switzerland), 2020, 10, 306.	0.8	2
2987	Polyamorphism of GeO ₂ Glass at High Pressure. Physica Status Solidi (B): Basic Research, 2020, 257, 2000052.	0.7	8
2988	Unconventional high-pressure Raman spectroscopy study of kinetic and peak pressure effects in plagioclase feldspars. Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	6
2989	Broadband Emission Enhancement Induced by Self-Trapped Excited States in One-Dimensional EAPbI ₃ Perovskite under Pressure. Journal of Physical Chemistry C, 2020, 124, 8984-8991.	1.5	15
2990	First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO ₃) ₃ . Journal of Physical Chemistry C, 2020, 124, 8669-8679.	1.5	24
2991	Combined Temperature and Pressure Sensing Using Luminescent NaBiF ₄ :Yb,Er Nanoparticles. ACS Applied Nano Materials, 2020, 3, 4209-4217.	2.4	69
2992	Viscosity measurement from microscale convection at high pressure and temperature. Physical Review B, 2020, 101, .	1.1	1
2993	Pressure-induced phase transitions in the topological crystalline insulator SnTe and its comparison with semiconducting SnSe: Raman and first-principles studies. Physical Review B, 2020, 101, .	1.1	22
2994	Crystal structures and electronic properties of Sn ₃ N ₄ polymorphs synthesized via high-pressure nitridation of tin. CrystEngComm, 2020, 22, 3531-3538.	1.3	1
2995	Raman and X-ray diffraction study of pressure-induced phase transition in synthetic Mg ₂ TiO ₄ . Scientific Reports, 2020, 10, 6278.	1.6	2
2996	A comparative study of high-pressure behaviors of the two polymorphs of Ho ₂ Ge ₂ O ₇ . RSC Advances, 2020, 10, 10540-10545.	1.7	4
2997	High-silica mordenite as scaffold for phenylacetylene polymerization: In situ high pressure investigation. Microporous and Mesoporous Materials, 2020, 300, 110163.	2.2	4
2998	High-Pressure Behavior of Nickel Sulfate Monohydrate: Isothermal Compressibility, Structural Polymorphism, and Transition Pathway. Inorganic Chemistry, 2020, 59, 6255-6266.	1.9	18
2999	Persistent insulating state at megabar pressures in strongly spin-orbit coupled $Sr_{1-x}Ir_xO_3$. Physical Review B, 2020, 101, .	1.1	22
3000	High-pressure structural investigation on lead-free piezoelectric $0.5BaTi_{0.8}Zr_{0.2}O_3$ and $0.5Ba_{0.7}Ca_{0.3}O_3$. Journal of the American Ceramic Society, 2020, 103, 5259-5269.	1.1	1
3001	Pressure-Induced Dimerization of C ₆₀ at Room Temperature as Revealed by an In Situ Spectroscopy Study Using an Infrared Laser. Crystals, 2020, 10, 182.	1.0	4

#	ARTICLE	IF	CITATIONS
3002	Temperature measurement in double-sided laser-heated diamond anvil cell and reaction of carbon. Indian Journal of Physics, 2021, 95, 621-628.	0.9	4
3003	The effect of nitrogen on the compressibility and conductivity of iron at high pressure. Geoscience Frontiers, 2021, 12, 983-989.	4.3	14
3004	High-pressure investigations on the isostructural phase transition and metallization in realgar with diamond anvil cells. Geoscience Frontiers, 2021, 12, 1031-1037.	4.3	8
3005	Deep mantle hydrogen in the pyrite-type FeO ₂ –FeO ₂ H system. Geoscience Frontiers, 2021, 12, 975-981.	4.3	9
3006	Chemical transformations of n-hexane and cyclohexane under the upper mantle conditions. Geoscience Frontiers, 2021, 12, 1010-1017.	4.3	8
3007	Experimental and theoretical study of dense YBO ₃ and the influence of non-hydrostaticity. Journal of Alloys and Compounds, 2021, 850, 156562.	2.8	5
3008	Negative area compressibility in silver oxalate. Journal of Materials Science, 2021, 56, 269-277.	1.7	11
3009	High-pressure phase transformation of carbonate malachite Cu ₂ (CO ₃)(OH) ₂ driven by [CuO ₆] regularization and [CO ₃] rotation. Geoscience Frontiers, 2021, 12, 965-973.	4.3	7
3010	Thermal and compressional behavior of the natural borate kurnakovite, MgB ₃ O ₃ (OH)5·5H ₂ O. Construction and Building Materials, 2021, 266, 121094.	3.2	9
3011	Hard, transparent, sp ³ -containing 2D phase formed from few-layer graphene under compression. Carbon, 2021, 173, 744-757.	5.4	31
3012	Suppressed Lattice Disorder for Large Emission Enhancement and Structural Robustness in Hybrid Lead Iodide Perovskite Discovered by High-Pressure Isotope Effect. Advanced Functional Materials, 2021, 31, 2009131.	7.8	20
3013	High-pressure study of the structural phase transition in Cu _{1.875} Te. Computational Materials Science, 2021, 186, 110020.	1.4	1
3014	The effect of iron on the sound velocities of $\hat{\gamma}$ -AlOOH up to 135 GPa. Geoscience Frontiers, 2021, 12, 937-946.	4.3	12
3015	Structural and elastic properties of TlInSe ₂ at high pressure. Solid State Sciences, 2021, 111, 106343.	1.5	18
3016	High Pressure Effect on Structural and Electrochemical Properties of Anionic Redox-Based Lithium Transition Metal Oxides. Matter, 2021, 4, 164-181.	5.0	15
3017	Quantifying dynamic pressure and temperature conditions on fault asperities during earthquake slip. Earth and Planetary Science Letters, 2021, 555, 116701.	1.8	1
3018	High-pressure and low-temperature structural study of claudetite I, a monoclinic layered As ₂ O ₃ polymorph. CrystEngComm, 2021, 23, 638-644.	1.3	5
3019	Contrasting physical properties of the trilayer nickelates Nd ₄ Ni ₃ O ₁₀ and Nd ₄ Ni ₃ O ₈ . Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	18

#	ARTICLE	IF	CITATIONS
3020	Crystal Structure and Non-Hydrostatic Stress-Induced Phase Transition of Urotropine Under High Pressure. <i>Chemistry - A European Journal</i> , 2021, 27, 1094-1102.	1.7	7
3021	Raman resonance tuning of quaterthiophene in filled carbon nanotubes at high pressures. <i>Carbon</i> , 2021, 173, 163-173.	5.4	12
3022	Conduction transition and electronic conductivity enhancement of cesium azide by pressure-directed grain boundary engineering. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4764-4770.	2.7	3
3023	Spectroscopic evidence for the Fe ³⁺ spin transition in iron bearing γ -AlOOH at high pressure. <i>American Mineralogist</i> , 2021, , .	0.9	5
3024	Polyamorphism in a solute-lean Al-Ce metallic glass. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	1
3025	Self-healing ferroelastic metal-organic framework sensing guests, pressure and chemical environment. <i>Materials Advances</i> , 0, , .	2.6	9
3026	Pressure-induced superconductivity in trigonal layered PtBi_2 with triply degenerate point fermions. <i>Physical Review B</i> , 2021, 103, .		
3027	An X-ray diffraction and Raman spectroscopic study of the high-pressure behavior of $\text{Ni}_0.73\text{Mg}_{0.27}\text{CO}_3$. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.	0.3	2
3028	High Pressure Behavior of the Hybrid Material $\text{AlPO}_4\cdot 5\text{Azobenzene}$: An In-situ Synchrotron X-ray Diffraction Study. <i>Springer Proceedings in Physics</i> , 2021, , 111-124.	0.1	0
3029	Quenchable amorphous glass-like material from VF_3 . <i>Dalton Transactions</i> , 2021, 50, 3005-3010.	1.6	1
3030	Pressure-dependent modifications in the optical and electronic properties of $\text{Fe}(\text{IO}_3)_3$: the role of Fe 3d and I 5p lone pair electrons. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4780-4790.	3.0	13
3031	Structural, vibrational and electronic properties of Ga_2S_3 under compression. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6841-6862.	1.3	8
3032	$\text{Y}_2(\text{Ge,Si})\text{O}_5\text{:Pr}$ phosphors: multimodal temperature and pressure sensors shaped by bandgap management. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13818-13831.	2.7	10
3033	Amino acid encapsulation in zeolite MOR: Effect of spatial confinement. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20541-20552.	1.3	0
3034	Optical pressure and temperature sensing properties of $\text{Nd}^{3+}\text{:YTaO}_4$. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23380-23388.	1.3	4
3035	Synthesis of Materials Under High Pressure. <i>Indian Institute of Metals Series</i> , 2021, , 153-195.	0.2	0
3036	Pressure-induced Jahn-Teller switch in the homoleptic hybrid perovskite $[(\text{CH}_3)_2\text{NH}_2]\text{Cu}(\text{HCOO})_3$: orbital reordering by unconventional degrees of freedom. <i>Journal of Materials Chemistry C</i> , 2021, 9, 8051-8056.	2.7	8
3037	High-pressure structural phase transition and metallization in Ga_2S_3 under non-hydrostatic and hydrostatic conditions up to 36.4 GPa. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2912-2918.	2.7	20

#	ARTICLE	IF	CITATIONS
3038	Optical pressure sensing in vacuum and high-pressure ranges using lanthanide-based luminescent thermometer—manometer. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4643-4651.	2.7	56
3039	Crystal and Electronic Structures of MoSi ₂ -Type CrGe ₂ Synthesized under High Pressure. <i>Inorganic Chemistry</i> , 2021, 60, 1767-1772.	1.9	3
3040	Phase transition and chemical reactivity of 1H-tetrazole under high pressure up to 100 GPa. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19503-19510.	1.3	3
3041	Thermal equation of state of phase egg (AlSiO ₃ OH): implications for hydrous phases in the deep earth. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	2
3042	Pressure-engineered optical properties and emergent superconductivity in chalcopyrite semiconductor ZnSiP ₂ . <i>NPG Asia Materials</i> , 2021, 13, .	3.8	9
3043	Characterization of the structure and photoluminescence properties of tetragonal structure La _{0.995} Pr _{0.005} VO ₄ phosphor via a post heat treatment. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	0
3044	Rethinking the Design of Ionic Conductors Using Meyer—Neldel—Conductivity Plot. <i>Advanced Energy Materials</i> , 2021, 11, 2100325.	10.2	24
3045	Emergent Magnetic Phases in Pressure-Tuned van der Waals Antiferromagnet FePS_3 . <i>Physical Review X</i> , 2021, 11, .	2.8	36
3046	Iron force constants of bridgmanite at high pressure: Implications for iron isotope fractionation in the deep mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 215-231.	1.6	5
3047	Reemergence of superconductivity in pressurized quasi-one-dimensional superconductor K ₂ Mo ₃ As ₃ . <i>Physical Review Materials</i> , 2021, 5, .	0.9	5
3048	Nitriding synthesis and structural change of phosphorus nitrides at high pressures. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1064-1072.	1.2	8
3049	Structure—property relationships of molecular shape and orientation with compression and expansion of xylitol. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 205-210.	0.5	3
3050	Macroscale Superlubricity and Polymorphism of Long-Chain <i>n</i> -Alcohols. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9239-9251.	4.0	13
3051	Pressure-induced structural transition and huge enhancement of superconducting properties of single-crystal Fe _{0.99} Ni _{0.01} Se _{0.5} Te _{0.5} unconventional superconductor. <i>Journal of Materials Research</i> , 2021, 36, 1624-1636.	1.2	1
3052	Phonons of hexagonal BN under pressure: Effects of isotopic composition. <i>Physical Review B</i> , 2021, 103, .	1.1	2
3053	Structural and vibrational study of Zn ₃ Mo ₃ high-pressure experiments and density functional theory. <i>Physical Review B</i> , 2021, 103, .	1.1	19
3054	Pressure-Induced Emergence of Visible Luminescence in Lead Free Halide Perovskite Cs ₃ Bi ₂ Br ₉ : Effect of Structural Distortion. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3432-3440.	1.5	12
3055	The effect of interstitial-site nitrogen on structural, elastic, and magnetic properties of face-center cubic Co. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	4

#	ARTICLE	IF	CITATIONS
3056	High-Pressure Neutron Diffraction Study of the Crystal and Magnetic Structure of Materials at the Pulsed Reactor IBR-2: Current Opportunities and Prospects. <i>Crystallography Reports</i> , 2021, 66, 303-313.	0.1	13
3057	Phase relations and thermoelasticity of magnesium silicide at high pressure and temperature. <i>Journal of Chemical Physics</i> , 2021, 154, 144701.	1.2	6
3058	From Semiconducting to Metallic: Jahn-Teller-Induced Phase Transformation in Skyrmion Host GaV4S8. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5771-5780.	1.5	7
3059	Ferromagnetism in two-dimensional Fe_3S_4 ; Tunability by hydrostatic pressure. <i>Physical Review B</i> , 2021, 103, .		
3060	Stability and band gap engineering of silica-confined lead halide perovskite nanocrystals under high pressure. <i>Geoscience Frontiers</i> , 2021, 12, 957-963.	4.3	6
3061	Synthesis of superconducting SbS and SbS ₂ antimony chalcogenide compounds at high pressures. <i>Physical Review B</i> , 2021, 103, .	1.1	2
3062	Raman signatures of the distortion and stability of MgCO ₃ to 75 GPa. <i>American Mineralogist</i> , 2021, 106, 367-373.	0.9	8
3063	Calibration of Manganin pressure gauge for diamond-anvil cells. <i>Review of Scientific Instruments</i> , 2021, 92, 033905.	0.6	2
3064	Interferometric measurements of refractive index and dispersion at high pressure. <i>Scientific Reports</i> , 2021, 11, 5610.	1.6	9
3065	Intercalation of Water in Kaolinite ($\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$) at Subduction Zone Conditions: Insights from Raman Spectroscopy. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 834-848.	1.2	11
3066	X-ray Free Electron Laser-Induced Synthesis of μ -Iron Nitride at High Pressures. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3246-3252.	2.1	14
3067	Resilient three-dimensional ordered architectures assembled from nanoparticles by DNA. <i>Science Advances</i> , 2021, 7, .	4.7	45
3068	High-pressure and high-temperature vibrational properties and anharmonicity of carbonate minerals up to 6 GPa and 500 Å°C by Raman spectroscopy. <i>American Mineralogist</i> , 2021, 106, 581-598.	0.9	7
3069	Pressure Controls the Structure and Nonlinear Optical Properties of Piezochromic CdTeMoO ₆ . <i>Chemistry of Materials</i> , 2021, 33, 2929-2936.	3.2	12
3070	Normal and anomalous self-healing mechanism of crystalline calcium silicate hydrates. <i>Cement and Concrete Research</i> , 2021, 142, 106356.	4.6	15
3071	Mechanism of Pressure-Induced Phase Transitions and Structure-Property Relations in Methylhydrazinium Manganese Hypophosphite Perovskites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 10121-10129.	1.5	9
3072	Origin of the Giant Enhanced Raman Scattering by Sulfur Chains Encapsulated inside Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2021, 15, 8574-8582.	7.3	10
3073	Diamond formation from methane hydrate under the internal conditions of giant icy planets. <i>Scientific Reports</i> , 2021, 11, 8165.	1.6	10

#	ARTICLE	IF	CITATIONS
3074	High-pressure stability of bcc-vanadium and phase transition to a rhombohedral structure at 200â€‰GPa. Journal of Applied Physics, 2021, 129, .	1.1	7
3075	Optical properties of Nd ³⁺ ions doped GdTaO ₄ for pressure and temperature sensing. Journal of Rare Earths, 2022, 40, 870-877.	2.5	15
3076	Calibration of ruby (Cr ³⁺ :Al ₂ O ₃) and Sm ²⁺ :SrFCl luminescence lines from the melting of mercury: constraints on the initial slopes. High Pressure Research, 2021, 41, 175-183.	0.4	7
3077	Pressure-Induced Anomalous Emission Behaviors of MnS/ZnS Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 9281-9286.	1.5	3
3078	Polymorphism of praseodymium orthovanadate under high pressure. Physical Review B, 2021, 103, .	1.1	7
3079	Synthesis of ternary compound in H-S-Se system at high pressures. Chinese Physics B, 0, , .	0.7	1
3080	Predicting the Optical Pressure Sensitivity of ² E â†’ ⁴ A ₂ Spin-Flip Transition in Cr ³⁺ -Doped Crystals. Chemistry of Materials, 2021, 33, 3379-3385.	3.2	28
3081	Persistent Negative Compressibility Coupled to Optical Modulation in Empty-Perovskite TiO ₂ . Journal of Physical Chemistry C, 2021, 125, 8869-8875.	1.5	7
3082	Evidence of hydrogenâ”helium immiscibility at Jupiter-interior conditions. Nature, 2021, 593, 517-521.	13.7	41
3083	Structural transitions of 4:1 methanolâ”ethanol mixture and silicone oil under high pressure. Matter and Radiation at Extremes, 2021, 6, .	1.5	24
3084	Structural Stability of l-Cystine under Extreme Conditions. ACS Earth and Space Chemistry, 2021, 5, 1525-1534.	1.2	3
3085	High-pressure and environment effects in selenourea and its labile crystal field around molecules. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 449-455.	0.5	5
3086	Pressure- and temperature-dependent luminescence from Tm ³⁺ ions doped in GdYTaO ₄ . Chinese Physics B, 2022, 31, 017101.	0.7	0
3087	SERS Selective Enhancement on Monolayer MoS ₂ Enabled by a Pressure-Induced Shift from Resonance to Charge Transfer. ACS Applied Materials & Interfaces, 2021, 13, 26551-26560.	4.0	23
3088	High Pressure in Boron Nitride Nanotubes for Kirigami Nanoribbon Elaboration. Journal of Physical Chemistry C, 2021, 125, 11440-11453.	1.5	3
3089	Pressure-induced disordering of site occupation in ironâ”nickel nitrides. Matter and Radiation at Extremes, 2021, 6, .	1.5	10
3090	Squeezing Out the Catalysts: A Sustainable Approach to Disulfide Bond Exchange in Aryl Disulfides. ACS Sustainable Chemistry and Engineering, 2021, 9, 7171-7178.	3.2	6
3091	In situ synchrotron diffraction of pressure-induced phase transition in DyPO ₄ under variable hydrostaticity. Physical Review B, 2021, 103, .	1.1	3

#	ARTICLE	IF	CITATIONS
3092	Single-Crystal Elasticity of MgSiO ₃ Bridgmanite to Mid-Lower Mantle Pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020967.	1.4	9
3093	Atomic-scale mixing between MgO and H ₂ O in the deep interiors of water-rich planets. <i>Nature Astronomy</i> , 2021, 5, 815-821.	4.2	10
3094	Structural and Transport Properties of 1T-VSe ₂ Single Crystal Under High Pressures. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	10
3095	Elucidating the Phase Transformation and Metallization Behavior of Zinc Phosphide under High Pressure. <i>Inorganic Chemistry</i> , 2021, 60, 10315-10322.	1.9	3
3096	High-Pressure Raman Spectroscopy and X-ray Diffraction Study on Scottyite, BaCu ₂ Si ₂ O ₇ . <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 608.	0.8	1
3097	Establishing gold and platinum standards to 1 terapascal using shockless compression. <i>Science</i> , 2021, 372, 1063-1068.	6.0	53
3098	Pressure-tuned colossal magnetoresistance effect in n-type CdCr ₂ Se ₄ . <i>Applied Physics Letters</i> , 2021, 118, 262407.	1.5	2
3099	Semiconductor-to-metal transition in HfSe ₂ under high pressure. <i>Journal of Alloys and Compounds</i> , 2021, 867, 158923.	2.8	12
3100	Pressure-induced anomalous insulating behavior in frustrated iridate La ₃ Ir ₃ O ₁₁ *. <i>Chinese Physics B</i> , 2021, 30, 067402.	0.7	0
3101	Crystal Structure Evolution of CaSiO ₃ Polymorphs at Earth's Mantle Pressures. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 608.	0.8	11
3102	Crystal Structure Evolution of Slawsonite SrAl ₂ Si ₂ O ₈ and Paracelsian BaAl ₂ Si ₂ O ₈ upon Compression and Decompression. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13014-13023.	1.5	13
3103	Unusual competition of superconductivity and charge-density-wave state in a compressed topological kagome metal. <i>Nature Communications</i> , 2021, 12, 3645.	5.8	193
3104	Mixed-valence state and structure changes of EuH (x=2 and 2$x=3$) under high-pressure H ₂ atmosphere. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158637.	2.8	2
3105	Pressure influence on the valence and magnetic state of Yb ions in noncentrosymmetric heavy-fermion YbNiC ₂ . <i>Physical Review B</i> , 2021, 103, .	1.1	1
3106	Pressure-induced reemergence of superconductivity in the topological kagome metal $V_{3Sb_5}Cs$. <i>Physical Review B</i> , 2021, 103, .	1.1	123
3107	High-pressure behavior of heteroepitaxial core-shell particles made of Prussian blue analogs. <i>Journal of Applied Physics</i> , 2021, 129, 235106.	1.1	2
3108	The pressure-induced structural phase transition of fluorene studied by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2021, 115, 103272.	1.2	0
3109	Phase transition and high-pressure behavior of ulexite, a potential aggregate in radiation-shielding concretes. <i>Construction and Building Materials</i> , 2021, 291, 123188.	3.2	9

#	ARTICLE	IF	CITATIONS
3110	Pressure-induced structural transitions between successional superconducting phases in GeTe. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 355403.	0.7	2
3111	Superconductivity and electron-phonon interaction in $Sr_xBi_2Se_3$ under pressure. <i>New Journal of Physics</i> , 0, , .	1.2	1
3112	Deep hydrocarbon cycle. <i>Lithosphere (Russian Federation)</i> , 2021, 21, 289-305.	0.1	1
3113	Comparison of the temperature- and pressure-dependent behavior of the crystal structure of CrAs. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 594-604.	0.5	2
3114	Pressure-induced 1T to 3R structural phase transition in metallic VSe ₂ : X-ray diffraction and first-principles theory. <i>Physical Review B</i> , 2021, 104, .	1.1	7
3115	Thermal conductivity of single-crystal brucite at high pressures with implications for thermal anomaly in the shallow lower mantle. <i>American Mineralogist</i> , 2021, , .	0.9	0
3116	Structural and electrical transport properties of charge density wave material LaAgSb ₂ under high pressure*. <i>Chinese Physics B</i> , 2021, 30, 076201.	0.7	3
3117	Tuning Magnetic and Transport Properties in Quasi-2D (Mn ^{1-x} Ni ^x) ₂ P ₂ S ₆ Single Crystals. <i>Electronic Materials</i> , 2021, 2, 284-298.	0.9	19
3118	Retainable Superconductivity and Structural Transition in 1T-TaSe ₂ Under High Pressure. <i>Inorganic Chemistry</i> , 2021, 60, 11385-11393.	1.9	5
3119	Pressure evolution of the electronic structure of non-centrosymmetric EuRhGe ₃ . <i>Electronic Structure</i> , 2021, 3, 034002.	1.0	2
3120	High-pressure behavior of disordered kesterite-type Cu ₂ ZnSnS ₄ . <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
3121	Equations of state of new boron-rich selenides B ₆ Se and B ₁₂ Se. <i>High Pressure Research</i> , 2021, 41, 267-274.	0.4	4
3122	Synthesis and compression study of orthorhombic Fe ₇ (C, Si) ₃ : a possible constituent of the Earth's core. <i>High Pressure Research</i> , 2021, 41, 290-305.	0.4	1
3123	High pressure structural evolution of cubic solid solution YbInO ₃ . <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	3
3124	Pressure-induced high-temperature superconductivity retained without pressure in FeSe single crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	30
3125	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO ₃) ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 17448-17461.	1.5	14
3126	Structure of disordered materials under ambient to extreme conditions revealed by synchrotron x-ray diffraction techniques at SPring-8's recent instrumentation and synergic collaboration with modelling and topological analyses. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 383001.	0.7	33
3127	Powder conductor for pressure calibration applied to large volume press under high pressure. <i>Review of Scientific Instruments</i> , 2021, 92, 073903.	0.6	0

#	ARTICLE	IF	CITATIONS
3128	Pressure-induced structural phase transition in corundum-related class Cu_3TeO_6 . High Pressure Research, 2021, 41, 318-327.	0.4	2
3129	Pressure-induced metallic phase transition in gallium arsenide up to 24.3 GPa under hydrostatic conditions. Modern Physics Letters B, 2021, 35, .	1.0	3
3130	High-pressure Raman study of osmium and rhenium up to 200 GPa and pressure dependent elastic shear modulus C 44. Chinese Physics B, 0, , .	0.7	0
3131	Insertion of Oxygen and Nitrogen in the Siliceous Zeolite TON at High Pressure. Journal of Physical Chemistry C, 2021, 125, 19517-19524.	1.5	0
3132	Stepwise Stress-Induced Transformations of Metal-Organic Polyhedral Cluster-Based Assemblies: Where Conformational and Supramolecular Features Meet. Chemistry - A European Journal, 2021, 27, 13757-13764.	1.7	4
3133	Equation of state and electrical transport properties of mixture of $\text{Li}_{1.2}\text{Mn}_{0.54}\text{Co}_{0.13}\text{Ni}_{0.13}\text{O}_2$ and $\text{LiNi}_{0.87}\text{Co}_{0.09}\text{Mn}_{0.03}\text{Al}_{0.01}\text{O}_2$ at high pressure. International Journal of Modern Physics B, 2021, 35, .	1.0	0
3134	3D characterization of individual grains of coexisting high-pressure H ₂ O ice phases by time-domain Brillouin scattering. Journal of Applied Physics, 2021, 130, .	1.1	7
3135	Realization of an Ideal Cairo Tessellation in Nickel Diazenide NiN_2 : High-Pressure Route to Pentagonal 2D Materials. ACS Nano, 2021, 15, 13539-13546.	7.3	55
3136	X-ray spectroscopic and first-principles investigation of lead tungstate under pressure. Physical Review B, 2021, 104, .	1.1	3
3137	Structural Stability and Properties of Marokite-Type Mn_3O_4 . Inorganic Chemistry, 2021, 60, 13440-13452.	1.9	4
3138	Revealing pressure-driven structural transitions in the hybrid improper ferroelectric $\text{Sr}_3\text{Sn}_2\text{O}_7$. Physical Review B, 2021, 104, .	1.1	8
3139	Pressure-tuning structural and electronic transitions in semimetal CoSb. Physical Review B, 2021, 104, .	1.1	4
3140	Lattice dynamics study of $(\text{Gd}_{1-x}\text{Yb}_x)_2\text{O}_3$ (x=0.11) at high pressure. Journal of Alloys and Compounds, 2021, 871, 159525.	2.8	3
3141	The coupling of lattice-strain and phonon induced order-disorder phase transition in layered LiGaO ₂ . Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 407, 127464.	0.9	1
3142	Pressure-Induced Excitations in the Out-of-Plane Optical Response of the Nodal-Line Semimetal ZrSiS. Physical Review Letters, 2021, 127, 076402.	2.9	6
3143	Crystal and Electronic Structure of U_7Te_{12} -Type Tungsten Nitride Synthesized under High Pressure. Inorganic Chemistry, 2021, 60, 13278-13283.	1.9	8
3144	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. Nature Electronics, 2021, 4, 653-663.	13.1	61
3145	Abnormal Phase Transition and Band Renormalization of Guanidinium-Based Organic-Inorganic Hybrid Perovskite. ACS Applied Materials & Interfaces, 2021, 13, 44964-44971.	4.0	8

#	ARTICLE	IF	CITATIONS
3146	Pressure-induced atomic packing change in Pd ₃₇ Ni ₃₇ S ₂₆ metallic glass. <i>Acta Materialia</i> , 2021, 216, 117116.	3.8	3
3147	Phase transformations of zircon-type DyVO ₄ at high pressures up to 36.4 GPa: X-ray diffraction measurements. <i>Journal of Alloys and Compounds</i> , 2021, 875, 159926.	2.8	5
3148	Tm ²⁺ Activated SrB ₄ O ₇ Bifunctional Sensor of Temperature and Pressure Highly Sensitive, Multi-Parameter Luminescence Thermometry and Manometry. <i>Advanced Optical Materials</i> , 2021, 9, 2101507.	3.6	40
3149	Pressure-induced phase transition and phonon softening in h [~] Lu _{0.6} Sc _{0.4} FeO ₃ . <i>Physical Review B</i> , 2021, 104, .	1.1	5
3150	Liquid structure under extreme conditions: high-pressure x-ray diffraction studies. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 503004.	0.7	8
3151	Strength, deformation, and equation of state of tungsten carbide to 66 GPa. <i>Acta Materialia</i> , 2021, 220, 117301.	3.8	2
3152	Pressure induced superconductivity in MnSe. <i>Nature Communications</i> , 2021, 12, 5436.	5.8	19
3153	Charge Density Wave Orders and Enhanced Superconductivity under Pressure in the Kagome Metal CsV ₃ Sb ₅ . <i>Advanced Materials</i> , 2021, 33, e2102813.	11.1	54
3154	Pressure-Induced Variation of the Crystal Stacking Order in the Hydrogen-Bonded Quasi-Two-Dimensional Layered Material Cu(OH)Cl. <i>Materials</i> , 2021, 14, 5019.	1.3	0
3155	Atomic-scale mapping of pressure-induced deformations and phase defects in the charge density wave order parameter. <i>Physical Review B</i> , 2021, 104, .	1.1	3
3156	Anomalous structural behavior and antiferroelectricity in BiGdO ₃ : detailed temperature and high-pressure study. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 495403.	0.7	2
3157	Pressure-Induced Phase Transition, Jahn-Teller Suppression, Optical and Electronic Property Evolutions in Ruddlesden-Popper Perovskites Rb ₂ CuCl ₄ Br _x . <i>Chemistry - an Asian Journal</i> , 2021, 16, 3437-3443.	1.7	5
3158	In situ X-ray diffraction study of chrysotile at high P-T conditions: transformation to the 3.65 Å... phase. <i>Physics and Chemistry of Minerals</i> , 2021, 48, 1.	0.3	0
3159	Hexagonal Si [~] Ge Class of Semiconducting Alloys Prepared by Using Pressure and Temperature. <i>Chemistry - A European Journal</i> , 2021, 27, 14217-14224.	1.7	3
3160	High-pressure plastic deformation of lead metasilicate glass accessed by Raman spectroscopy: Insights into the Qn distribution. <i>Journal of Non-Crystalline Solids</i> , 2021, 567, 120930.	1.5	6
3161	Thermostructural and Elastic Properties of PbTe and Pb _{0.884} Cd _{0.116} Te: A Combined Low-Temperature and High-Pressure X-ray Diffraction Study of Cd-Substitution Effects. <i>Crystals</i> , 2021, 11, 1063.	1.0	4
3162	In situ Raman scattering studies of pressure-temperature phase diagrams in antiferroelectric CaSnO ₃ -modified NaNbO ₃ ceramics. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	6
3163	Mg-sursassite thermo-elastic parameters and its relevance as a water carrier in subducting slabs. <i>American Mineralogist</i> , 2021, .	0.9	0

#	ARTICLE	IF	CITATIONS
3164	Raman scattering and Cr ³⁺ luminescence study on the structural behavior of γ -AlOOH at high pressures. <i>American Mineralogist</i> , 2021, , .	0.9	0
3165	Structural transition and ductility enhancement of a tungsten heavy alloy under high pressure. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021, 100, 105632.	1.7	8
3166	Compressibility and blue-shifting O-H stretching bands of magnesium hydroxyfluoride Mg(OH)F up to 20 GPa. <i>Journal of Solid State Chemistry</i> , 2021, 303, 122449.	1.4	1
3167	Structural transformation and transport behavior of mixed valence compound Sn ₃ O ₄ under high pressure. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161197.	2.8	1
3168	Transformations of silicon clathrate Si ₁₃₆ under high hydrogen pressure up to 11 GPa. <i>Solid State Communications</i> , 2021, 340, 114492.	0.9	1
3169	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa ₂ S ₄ and HgGa ₂ S ₄ . <i>Journal of Alloys and Compounds</i> , 2021, 886, 161226.	2.8	6
3170	Stability of the sc16 polymorph of GaAs. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 159, 110233.	1.9	1
3171	Elucidating the structural properties and reversible regional texture effect of Gd ₆ under high pressure. <i>Journal of Alloys and Compounds</i> , 2021, 886, 161239.	2.8	1
3172	Iron(II)oxalate Dihydrate-Humboldtine: Synthesis, Spectroscopic and Structural Properties of a Versatile Precursor for High Pressure Research. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 113.	0.8	14
3173	The Remarkable Anisotropic Compressibility and Metallic Cr _{1-x} Cr Chains in Topological Semimetal CrP ₄ under High Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000544.	0.7	2
3174	Controllably Introducing Exposed Surfaces to Nanocrystalline CeO ₂ Catalysts by High-Pressure Treatment. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 693-697.	0.9	1
3175	Pressure-driven electronic phase transition in the high-pressure phase of nitrogen-rich 1H-tetrazoles. <i>RSC Advances</i> , 2021, 11, 21507-21513.	1.7	3
3176	NIR emission of lanthanides for ultrasensitive luminescence manometry- ³⁺ Er-activated optical sensor of high pressure. <i>Dalton Transactions</i> , 2021, 50, 14864-14871.	1.6	16
3177	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of γ -Sb ₂ O ₃ . <i>Dalton Transactions</i> , 2021, 50, 5493-5505.	1.6	7
3179	Synthesis of High-Nitrogen Energetic Material. , 2009, , 75-97.		11
3180	Pressure Probes. <i>Springer Series in Solid-state Sciences</i> , 2015, , 173-204.	0.3	6
3181	Equations of State and Their Applications in Geosciences. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010, , 135-145.	0.2	1
3182	Boron and Boron-Rich Solids at High Pressures. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010, , 241-249.	0.2	2

#	ARTICLE	IF	CITATIONS
3183	Ultra high pressure experiments on high-Tc superconductors. , 1993, , 121-146.		2
3184	Introduction to Raman Spectroscopy at Extreme Pressure and Temperature Conditions. , 1999, , 43-69.		2
3185	Irreversible phase transformation in a CoCrFeMnNi high entropy alloy under hydrostatic compression. Materials Today Communications, 2018, 14, 10-14.	0.9	37
3186	Fluorescence-enhanced second harmonic normal Raman scattering in β -carotene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118494.	2.0	2
3187	Spinâ€“Lattice Coupling Across the Magnetic Quantum-Phase Transition in Copper-Containing Coordination Polymers. Inorganic Chemistry, 2020, 59, 2127-2135.	1.9	7
3188	Pressure-Induced Two-Color Photoluminescence and Phase Transition of Two-Dimensional Layered MnCl_2 . Journal of Physical Chemistry C, 2020, 124, 23317-23323.	1.5	6
3189	Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO_3 Perovskite. Journal of Physical Chemistry C, 2021, 125, 107-119.	1.5	17
3190	Pressure-Induced Hydration and Formation of Bilayer Ice in Nacrite, a Kaolin-Group Clay. ACS Earth and Space Chemistry, 2020, 4, 183-188.	1.2	8
3191	Effect of Water on Lattice Thermal Conductivity of Ringwoodite and Its Implications for the Thermal Evolution of Descending Slabs. Geophysical Research Letters, 2020, 47, e2020GL087607.	1.5	16
3192	Structural evolution of methane hydrate under pressures up to 134 GPa. Journal of Chemical Physics, 2020, 152, 194308.	1.2	10
3193	Pressure-induced superconductivity in a shandite compound $\text{Pd}_3\text{Pb}_2\text{Se}_2$ with the Kagome lattice. New Journal of Physics, 2020, 22, 123013.	1.2	10
3194	Pressure-induced superconductivity in a shandite compound $\text{Pd}_3\text{Pb}_2\text{Se}_2$ with the Kagome lattice. New Journal of Physics, 2020, 22, 123013. BaFe_2S_3 and BaFe_2S_3 BaFe_2S_3 and BaFe_2S_3	1.1	8
3195	Pressure-induced irreversible evolution of superconductivity in PdBi_2 . Physical Review B, 2019, 99, .	1.1	16
3196	Atomic-layered MoS_2 on SiO_2 under high pressure: Bimodal adhesion and biaxial strain effects. Physical Review Materials, 2017, 1, .	0.9	21
3197	Experimental and first-principles calculation study of the pressure-induced transitions to a metastable phase in GaPO_4 and in the solid solution $\text{AlPO}_4\text{-GaPO}_4$. Physical Review Materials, 2017, 1, .	0.9	3
3198	Pressure-induced multiband superconductivity in pyrite PtBi_2 with perfect electron-hole compensation. Physical Review Materials, 2018, 2, .	0.9	9
3199	Phase diagram of calcium at high pressure and high temperature. Physical Review Materials, 2018, 2, .	0.9	20
3200	Universal superconductivity phase diagram for pressurized tetradymite topological insulators. Physical Review Materials, 2018, 2, .	0.9	8

#	ARTICLE	IF	CITATIONS
3201	Superconductor-insulator transition driven by pressure-tuned intergrain coupling in nanodiamond films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
3202	High-pressure synthesis, crystal growth, and compression behavior of hexagonal CrN . <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
3203	Tunable multiferroic order parameters in $\text{Sr}_2\text{FeMoO}_6$. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
3204	Structural study on the pressure-induced metal-insulator transition in Li_2O . <i>Physical Review Materials</i> , 2020, 4, .	0.9	5
3205	Phase stabilities of MgCO . <i>Physical Review Materials</i> , 2020, 4, .	0.9	5
3206	Realization of the orbital-selective Mott state at the molecular level in BaO . <i>Physical Review Materials</i> , 2020, 4, .	0.9	9
3207	Beryllium polyhydride BeH_8 synthesized at high pressure and temperature. <i>Physical Review Materials</i> , 2020, 4, .	0.9	5
3208	Crystal-field Paschen-Back effect on ruby in ultrahigh magnetic fields. <i>Physical Review Research</i> , 2020, 2, .	1.3	2
3209	Destabilizing excitonic insulator phase by pressure tuning of exciton-phonon coupling. <i>Physical Review Research</i> , 2020, 2, .	1.3	9
3210	A closer look into close packing: pentacoordinated silicon in a high-pressure polymorph of danburite. <i>IUCr</i> , 2017, 4, 671-677.	1.0	21
3211	Crystal design by CH...N and N...N interactions: high-pressure structures of high-nitrogen-content azido-triazolopyridazines compounds. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 1136-1142.	0.5	8
3212	Pressure-induced phase transition of 1,4-dioxane: From twisted-boat- to chair conformer. <i>European Physical Journal D</i> , 2020, 74, 1.	0.6	2
3213	The Hydrothermal Diamond Anvil Cell (HDAC) for Raman spectroscopic studies of geological fluids at high pressures and temperatures. , 0, , 249-278.		8
3214	Luminescence techniques in Earth Sciences. , 0, , 43-91.		23
3216	Ultrafast carrier dynamics in all-inorganic CsPbBr_3 perovskite across the pressure-induced phase transition. <i>Optics Express</i> , 2019, 27, A995.	1.7	29
3217	High-Pressure Transition of Fe^{2+} From Low- to High-Spin Electronic State in Siderite: Optical Absorption Study. <i>Mineralogic Journal (Ukraine)</i> , 2017, 39, 3-23.	0.0	1
3219	Equation of state, bonding character, and phase transition of cubanite, CuFe_2S_3 , studied from 0 to 5 GPa. <i>American Mineralogist</i> , 1995, 80, 1-8.	0.9	13
3220	Raman modes of carbonate minerals as pressure and temperature gauges up to 6 GPa and 500 Å°C. <i>American Mineralogist</i> , 2018, , .	0.9	7

#	ARTICLE	IF	CITATIONS
3221	Thermodynamics of deep geophysical media. Russian Journal of Earth Sciences, 1999, 1, 11-49.	0.2	4
3222	Pressure-Composition Phase Diagram of Fe-Ni Alloy. Materials Transactions, 2020, 61, 1058-1062.	0.4	4
3224	High-Pressure Spectroscopy Study of Zn(IO ₃) ₂ Using Far-Infrared Synchrotron Radiation. Crystals, 2021, 11, 34.	1.0	10
3225	A New Reference for the Thermal Equation of State of Iron. Minerals (Basel, Switzerland), 2020, 10, 100.	0.8	20
3226	High-Pressure Transformations and Ionic Conductivity in Low-Z Complex Hydride LiBH ₄ . Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2011, 21, 213-220.	0.1	7
3227	10 GPa-Class High-Pressure NMR Technique Realized by the New Cell with Improved Space Efficiency. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2012, 22, 198-205.	0.1	2
3228	On the Application of Synchrotron to the Studies of Pressure Induced Phase Transition. High-Pressure Structural Transition of Oxygen at 96 GPa: Possibility of Molecular Metal.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1995, 4, 22-27.	0.1	1
3229	On the impact of the stress situation on the optical properties of WSe ₂ monolayers under high pressure. Papers in Physics, 0, 11, 110005.	0.2	5
3230	Equation of state and high-pressure phase behaviour of SrCO ₃ . European Journal of Mineralogy, 2020, 32, 575-586.	0.4	12
3231	Synergy Between First-Principles Computation and Experiment in Study of Earth Science. , 0, , .		1
3232	Near-absolute equations of state of diamond, Ag, Al, Au, Cu, Mo, Nb, Pt, Ta, and W for quasi-hydrostatic conditions. Geodinamika I Tektonofizika, 2012, 3, 129-166.	0.3	46
3233	Pressure-induced metallization transition in Mg ₂ Ge. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 166201.	0.2	2
3234	Isotropic Compression Behavior of Lawsonite Under High-pressure Conditions. Economic and Environmental Geology, 2016, 49, 23-30.	0.2	1
3235	Pressure-induced order-disorder transitions in In ₂ S ₃ : an experimental and theoretical study of structural and vibrational properties. Physical Chemistry Chemical Physics, 2021, 23, 23625-23642.	1.3	3
3236	Monoclinic-Orthorhombic Phase Transition with a Positive Volume Change in the Siliceous Zeolite Mobil-Five Induced by the High-Pressure Insertion of Dense Fluid Helium. Journal of Physical Chemistry C, 2021, 125, 24249-24253.	1.5	1
3237	Pressure-induced and flaring photocatalytic diversity of ZnO particles hallmarked by finely tuned pathways. Journal of Alloys and Compounds, 2022, 894, 162444.	2.8	2
3238	Strain induced electronic transition in 1T-MoTe ₂ : high pressure Raman, x-ray diffraction, resistivity measurements and first principles theoretical studies. Electronic Structure, 2021, 3, 045002.	1.0	3
3239	Time-Resolved Photoluminescence Study of MnS/ZnS Core/Shell Quantum Dots at High Pressure and Low Temperature. Journal of Physical Chemistry C, 2021, 125, 22354-22359.	1.5	1

#	ARTICLE	IF	CITATIONS
3240	Evolution of Structural and Electronic Properties of TiSe_2 under High Pressure. Journal of Physical Chemistry Letters, 2021, 12, 9859-9867.	2.1	21
3241	Lattice dynamics of zircon-type NdVO_4 and scheelite-type PrVO_4 under high-pressure. Journal of Physics Condensed Matter, 2022, 34, 025404.	0.7	2
3242	Layer-Dependent Pressure Effect on the Electronic Structure of 2D Black Phosphorus. Physical Review Letters, 2021, 127, 186401.	2.9	17
3243	Pressure Effects on Lead-Free Metal Halide Perovskites: a Route to Design Optimized Materials for Photovoltaics. Solar Rrl, 2021, 5, 2100550.	3.1	15
3244	Yield strength and hardness of micron-sized powders measured in the diamond cell. High Pressure Research, 2021, 41, 366-378.	0.4	2
3245	Impacts of pressure to the structural, electronic and magnetic properties of Dirac semimetal EuMnBi_2 . Physical Review Research, 2021, 3, .	1.3	5
3246	Observation of nearly identical superconducting transition temperatures in the pressurized Weyl semimetals MlIrTe_4 ($\text{M}=\text{Nb}$ and Ta). Physical Review B, 2021, 104, .	1.1	1
3247	Crosscheck of Pt and Au Pressure Scales and EOS of Bi to Megabar Pressures.. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2002, 12, 63-68.	0.1	3
3248	Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu		
3249	A Computer Program for the Pressure Determination with the Ruby Fluorescence Method. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2005, 15, 3-8.	0.1	0
3250	Effects of Uniaxial Stress on the Equation of State of Au—A Pitfall in High-Pressure X-ray Diffraction Experiments. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 230-239.	0.1	0
3251	Hugoniot-Measurement Experiment for the Purpose of Improvement of Pressure Scale. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 221-229.	0.1	0
3252	MgO , Au, and Pt Pressure Scales at High Temperatures. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 202-209.	0.1	0
3253	Multiple Approaches from Theoretical Simulations and High-Pressure Experiments to Determine Accurate Equation of State for Materials. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2010, 20, 244-251.	0.1	0
3254	Structure Refinement and Equation of State Studies of the Exsolved Ilmenite-Hematite. Journal of the Mineralogical Society of Korea, 2011, 24, 195-204.	0.2	1
3255	Phase Transition Studies on TiO_2 anatase under High Pressure. Journal of the Mineralogical Society of Korea, 2012, 25, 77-84.	0.2	1
3256	Pressure Effects on the Dehydration Behavior of Natrolite. Journal of the Mineralogical Society of Korea, 2013, 26, 175-187.	0.2	0
3257	The Equation of State of Dense Argon; A Comparison of Shock and Static Studies. , 1986, , 131-134.		0

#	ARTICLE	IF	CITATIONS
3259	High-Tc Superconductors Under Very High Pressure. NATO ASI Series Series B: Physics, 1991, , 399-417.	0.2	1
3260	Study of Minerals as Functions of Temperature, Pressure, and Composition.. Journal of the Mineralogical Society of Japan, 1992, 21, 233-238.	0.2	0
3261	STATIC COMPRESSION TO MULTIMEGABAR PRESSURES. , 1992, , 27-38.		1
3262	The relaxation of a decompressed inclusion. , 1995, , 335-355.		3
3263	Phase Transitions and Equations of State. , 1999, , 477-491.		0
3264	High-Pressure Synchrotron Diffraction Study of the Superconducting Spin-Ladder Compound (Sr,M)14Cu24O41, with M=Ca, Ba, Nd. , 1999, , 97-102.		0
3265	A Compression Study on a Synthetic Talc. Journal of the Mineralogical Society of Korea, 2014, 27, 283-291.	0.2	1
3266	Raman spectra based pressure calibration of the non-gauge sapphire anvil cell at high temperature and high pressure. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 149101.	0.2	0
3267	High Pressure Behavior Study of the Apophyllite (KF). Journal of the Mineralogical Society of Korea, 2015, 28, 325-332.	0.2	7
3268	Compressibility Study of Pyromorphite at High Pressure. Journal of the Mineralogical Society of Korea, 2016, 29, 191-198.	0.2	0
3269	High pressure single-crystal synchrotron X-ray diffraction technique. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 036203.	0.2	1
3271	High Pressure Behavior Study of Azurite. Journal of the Mineralogical Society of Korea, 2018, 31, 277-285.	0.2	0
3272	Construction of FT-IR micro-spectroscopy system: In situ studies on reaction-dynamics of material. Acta Petrologica Sinica, 2019, 35, 252-260.	0.3	2
3273	Thermal expansibility and compressibility of prehnite and its geological implications. Acta Petrologica Sinica, 2019, 35, 146-152.	0.3	2
3274	RSAVS superconductors: Materials with a superconducting state that is robust against large volume shrinkage. Physical Review Materials, 2020, 4, .	0.9	7
3275	High-pressure preference for reduced water content in porous zinc aspartate hydrates. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 795-801.	0.5	0
3276	Pressure-induced Esterification Reaction between Phosphoric Acid and Methanol. Chemistry Letters, 2020, 49, 885-887.	0.7	0
3278	High-Pressure Polymorphs Nucleated and Stabilized by Rational Doping under Ambient Conditions. Journal of Physical Chemistry C, 2021, 125, 23501-23509.	1.5	5

#	ARTICLE	IF	CITATIONS
3279	Effects of Hydrogen on the Phase Relations in FeS at Pressures of Mars-Sized Bodies. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006942.	1.5	3
3280	High-pressure thermal conductivity and compressional velocity of NaCl in B1 and B2 phase. Scientific Reports, 2021, 11, 21321.	1.6	13
3281	Fragile Pressure-Induced Magnetism in FeSe Superconductors with a Thickness Reduction. Nano Letters, 2021, 21, 9310-9317.	4.5	11
3282	High pressure investigations on TTF-TCNQ charge-transfer complexes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 267, 120541.	2.0	6
3283	Magnetic structure of antiferromagnetic high-pressure phases of dysprosium. Journal of Magnetism and Magnetic Materials, 2022, 545, 168749.	1.0	4
3284	Comparison of reidite formation between zircon bulk and nanoparticles. Journal of Physics and Chemistry of Solids, 2022, 161, 110475.	1.9	4
3285	Controlling Spin Orientation and Metamagnetic Transitions in Anisotropic van der Waals Antiferromagnet CrPS ₄ by Hydrostatic Pressure. Advanced Functional Materials, 2022, 32, 2106592.	7.8	6
3286	Structural and vibrational properties of methane up to 71 GPa. Physical Review B, 2021, 104, .	1.1	2
3287	Decoupling of itinerant and localized d-orbital electrons in the compound Sc _{0.5} Zr _{0.5} Co. Journal of Physics Condensed Matter, 2020, 32, 40LT01.	0.7	0
3288	Raman spectroscopy at high pressure and temperature for the study of the Earth's mantle and planetary minerals. , 0, , 367-390.		4
3289	In situ micro-FTIR spectroscopic investigations of synthetic ammonium phengite under pressure and temperature. European Journal of Mineralogy, 2020, 32, 469-482.	0.4	2
3290	Pressure-induced Pb-Pb bonding and phase transition in Pb ₂ SnO ₄ . Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 979-991.	0.5	8
3291	Pressure induced phase transition of La-substituted BiFeO ₃ . Solid State Communications, 2022, 341, 114595.	0.9	4
3292	On-site in situ high-pressure ultrafast pump-probe spectroscopy instrument. Review of Scientific Instruments, 2021, 92, 113002.	0.6	6
3293	Metallization and Superconductivity in the van der Waals Compound CuP ₂ Se through Pressure-Tuning of the Interlayer Coupling. Journal of the American Chemical Society, 2021, 143, 20343-20355.	6.6	10
3294	Tuning the onset pressure of pressure-induced phase transition in indium phosphide by extrinsic doping. Journal of Physics and Chemistry of Solids, 2022, 161, 110487.	1.9	1
3295	Establishing consistent equations of state for solid noble gases: Implication for partitioning behaviors of noble gases in the lower mantle. Earth-Science Reviews, 2022, 224, 103872.	4.0	0
3296	Stochastic hydration of a high-nitrogen-content molecular compound recrystallized under pressure. IUCr, 2022, 9, 49-54.	1.0	4

#	ARTICLE	IF	CITATIONS
3297	Pressure-driven electronic and structural phase transition in intrinsic magnetic topological insulator $MnSb$. Physical Review B, 2021, 104, .	11.8	8
3298	Temperature dependence of bismuth structures under high pressure. Chinese Physics B, 2022, 31, 056101.	0.7	1
3299	Crystal structure of the high- <i>P</i> polymorph of $Ca_2B_6O_6(OH)_2(H_2O)$ (meyerhofferite). Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 940-945.	0.5	4
3300	Adapting a continuous flow cryostat and a plate DAC to do high pressure Raman experiments at low temperatures. Review of Scientific Instruments, 2021, 92, 123902.	0.6	0
3301	In situ high temperature and high-pressure investigation of crystal structure and OH of rutile in jadeite quartzite from the Dabie Mountains, China. Acta Petrologica Sinica, 2021, 37, 3893-3902.	0.3	2
3302	Electrical transport properties of EuTe under high pressure. Journal of Materials Chemistry C, 2021, 9, 17371-17381.	2.7	5
3303	Tunable band gap of layered semiconductor $Zn_3In_2S_6$ under pressure. Journal of Materials Chemistry C, 2022, 10, .	2.7	6
3304	Pressure-induced superconductivity and structural transitions in topological insulator $SnBi_2Te_4$. Journal of Alloys and Compounds, 2022, 900, 163371.	2.8	3
3306	Modulated structure of hemimorphite associated with pressure-induced phase transition. Journal of Mineralogical and Petrological Sciences, 2021, 116, 251-262.	0.4	0
3307	Giant barocaloric effects in formamidinium iodide. APL Materials, 2022, 10, .	2.2	6
3308	Structural phase transition of BiSb and formation of Weyl semimetallic phase under pressure: calculations and experiments. Journal of Materials Chemistry C, 2022, 10, 3531-3537.	2.7	4
3309	Sound speed and refractive index of amorphous $CaSiO_3$ upon pressure cycling to 40 GPa. American Mineralogist, 2022, .	0.9	0
3310	Compressibility, Phase Transition, and Argon Insertion in the Siliceous Zeolite Mobil-Twelve at High Pressure. Journal of Physical Chemistry C, 2022, 126, 2877-2884.	1.5	1
3311	Pressure-induced bandgap engineering and photoresponse enhancement of wurtzite $CuInS_2$ nanocrystals. Nanoscale, 2022, 14, 2668-2675.	2.8	5
3312	The Phase Transition of Calcium Sulfide Under High Pressure. Journal of Physics: Conference Series, 2022, 2148, 012015.	0.3	0
3313	Pressure-induced coupled structural-electronic transition in SnS_2 under different hydrostatic environments up to 39.7 GPa. RSC Advances, 2022, 12, 2454-2461.	1.7	12
3314	The Fe-FeSi phase diagram at Mercury's core conditions. Nature Communications, 2022, 13, 387.	5.8	13
3315	High-pressure behaviour and atomic-scale deformation mechanisms in inyoite, $CaB_3O_3(OH)_5 \cdot 4H_2O$. Physics and Chemistry of Minerals, 2022, 49, 1.	0.3	5

#	ARTICLE	IF	CITATIONS
3316	Effects of hydrostaticity and Mn-substitution on dolomite stability at high pressure. American Mineralogist, 2022, 107, 2234-2241.	0.9	6
3317	Epidote as a conveyor of water into the Earth's deep mantle in subduction zones: Insights from coupled high pressure - temperature experiments. American Mineralogist, 2022, , .	0.9	1
3318	Pressure-induced phase transitions of cobalt sulfate hydrates and discovery of a new high-pressure phase, CoSO ₄ ·5H ₂ O. Journal of Solid State Chemistry, 2022, 308, 122904.	1.4	0
3319	An efficient blue phosphor with high thermal stability for lighting and optical pressure sensor applications. Inorganic Chemistry Frontiers, 2022, 9, 1644-1654.	3.0	25
3320	Equation of states for dense ice up to 80 GPa at low-temperature conditions. Journal of Chemical Physics, 2022, 156, 064504.	1.2	0
3321	High Temperature Melting Curve of Basaltic Glass by Laser Flash Heating. Chinese Physics Letters, 2022, 39, 020701.	1.3	2
3322	Ultrasensitive Pressure-Induced Optical Materials: Europium-Doped Hafnium Silicates with a Khibinskite Structure for Optical Pressure Sensors and WLEDs. Inorganic Chemistry, 2022, 61, 3212-3222.	1.9	20
3323	Crystal engineering of aurophilic supramolecular architectures and coordination polymers based on butterfly-like copper dicyanoaurate complexes: vapochromism, P-T behaviour and multi-metallic cocrystal formation. CrystEngComm, 2022, 24, 2336-2348.	1.3	5
3324	High-pressure bandgap engineering and amorphization in TiNb ₂ O ₇ single crystals. CrystEngComm, 2022, 24, 2660-2666.	1.3	4
3325	Mechanical strain, thermal and pressure effects on the absorption edge of an organic charge-transfer polymer for flexible photovoltaics and sensors. Materials Advances, 2022, 3, 2697-2705.	2.6	5
3326	Improvement of nano-polycrystalline diamond anvil cells with Zr-based bulk metallic glass cylinder for higher pressures: application to Laue-TOF diffractometer. High Pressure Research, 2022, 42, 121-135.	0.4	2
3327	Pressure-induced phase transitions, amorphization and alloying in Sb ₂ S ₃ . Physical Chemistry Chemical Physics, 2022, 24, 10053-10061.	1.3	6
3328	Edge-sharing BO ₄ tetrahedra and penta-coordinated silicon in the high-pressure modification of NaBSi ₃ O ₈ . Inorganic Chemistry Frontiers, 2022, 9, 1735-1742.	3.0	6
3329	Pressure driven phase transitions in honeycomb Fe ₄ Nb ₂ O ₉ : A possible re-entrant multiferroic behavior. Journal of Applied Physics, 2022, 131, .	1.1	1
3330	Photothermal-chemical Synthesis of P-S-H Ternary Hydride at High Pressures. Chinese Physics B, 0, , .	0.7	0
3331	Thermal conductivity of materials under pressure. Nature Reviews Physics, 2022, 4, 319-335.	11.9	46
3332	Pressure-induced charge ordering transition in CaMnO_{12} . Physical Review B, 2022, 105, .	1.1	0
3333	High-pressure phase transitions and melt structure of PbO_2 : An analog for silica. Physical Review B, 2022, 105, .	1.1	1

#	ARTICLE	IF	CITATIONS
3334	Structural Metamorphosis and Band Dislocation of Trirutile NiTa_2O_6 under Compression. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4106-4117.	1.5	1
3335	Thermal Conductivity and Compressional Velocity of Methane at High Pressure: Insights Into Thermal Transport Properties of Icy Planet Interiors. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	4
3336	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. <i>Physical Review B</i> , 2022, 105, .	1.1	9
3337	Dehydro-Diels-Alder reaction and diamondization of bowl-shaped clusters $\text{C}_{18}\text{Te}_3\text{Br}_4(\text{Bu-O})_6$. <i>Nano Research</i> , 0, , 1.	5.8	2
3338	Reentrant Negative Linear Compressibility in MIL-53(Al) over an Ultrawide Pressure Range. <i>Chemistry of Materials</i> , 2022, 34, 2764-2770.	3.2	11
3339	Behavior of Long-Chain Hydrocarbons at High Pressures and Temperatures. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2530-2537.	1.2	5
3340	Quantum Oscillations in Noncentrosymmetric Weyl Semimetal SmAlSi . <i>Chinese Physics Letters</i> , 2022, 39, 047501.	1.3	12
3341	Pressure-induced emission enhancement and bandgap narrowing: Experimental investigations and first-principles theoretical simulations on the model halide perovskite $\text{Cs}_3\text{X}_2\text{Y}_2\text{Br}_2$. <i>Physical Review B</i> , 2022, 105, .	1.1	8
3342	In situ Raman vibrational spectra of siderite (FeCO_3) and rhodochrosite (MnCO_3) up to 47 GPa and 1100 K. <i>American Mineralogist</i> , 2022, , .	0.9	4
3343	Low Thermal Conductivity of Carbon Dioxide at High Pressure: Implications for Icy Planetary Interiors. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	4
3344	High-pressure tuning of crystal-field electronic transitions and electronic band gap in Co_3O_4 . <i>Physical Review Letters</i> , 2022, 128, 095702.	1.1	10
3345	Partnership for eXtreme Xtallography (PX2) – A state-of-the-art experimental facility for extreme-conditions crystallography: A case study of pressure-induced phase transition in natural ilvaite. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	1.5	4
3346	An Investigation of the Pressure-Induced Structural Phase Transition of Nanocrystalline CuMoO_4 . <i>Crystals</i> , 2022, 12, 365.	1.0	2
3347	Giant Viscoelasticity near Mott Criticality in PbCrO_3 with Large Lattice Anomalies. <i>Physical Review Letters</i> , 2022, 128, 095702.	2.9	3
3348	Raman shifts of c -BN as an ideal P-T sensor for studying water-rock interactions in a diamond-anvil cell. <i>American Mineralogist</i> , 2023, 108, 455-464.	0.9	1
3349	A new transition metal diphosphide MoP_2 synthesized by a high-temperature and high-pressure technique. <i>Chinese Physics B</i> , 2023, 32, 018102.	0.7	3
3350	Insulator-metal transition and crossover from negative to positive magnetoresistance in Cu_2S under high pressure. <i>Physical Review B</i> , 2022, 105, .	1.2	3
3351	The phase transition of nicotinic acid under high pressure. <i>Vibrational Spectroscopy</i> , 2022, , 103361.	1.2	0

#	ARTICLE	IF	CITATIONS
3352	Thermal expansion and compressibility of calcium scandate CaSc ₂ O ₄ . Journal of Alloys and Compounds, 2022, 909, 164756.	2.8	2
3354	Pressure-induced superconductivity and structure phase transition in Pt ₂ HgSe ₃ . Npj Quantum Materials, 2021, 6, .	1.8	10
3355	Reversible Mechanically Induced On-Off Photoluminescence in Hybrid Metal Halides. Advanced Functional Materials, 2022, 32, .	7.8	12
3356	Pressure-driven phase transformations and phase segregation in ferroelectric CuInP_2S_6 . Physical Review B, 2021, 104, .	1.1	10
3357	Phase stability of pre-irradiated CeO ₂ with swift heavy ions under high pressure up to 45 ÅGPa. Journal of the American Ceramic Society, 2022, 105, 2889-2902.	1.9	3
3358	Pressure-Induced Insulator-Metal Transition in Two-Dimensional Mott Insulator NiPS ₃ . Journal of the Physical Society of Japan, 2021, 90, .	0.7	4
3359	Pressure-induced polymerization and bandgap-adjustment of TPEPA. RSC Advances, 2022, 12, 11996-12001.	1.7	1
3360	Pressure-stimulus-responsive behaviors of core-shell InP/ZnSe nanocrystals: remarkable piezochromic luminescence and structural assembly. Nanoscale, 2022, 14, 7530-7537.	2.8	2
3361	Super-hydration and reduction of manganese oxide minerals at shallow terrestrial depths. Nature Communications, 2022, 13, 1942.	5.8	5
3362	Equal compressibility structural phase transition of molybdenum at high pressure. Chinese Physics B, 0, , .	0.7	0
3363	Pressure-induced structural transformations on linear carbon chains encapsulated in carbon nanotubes: A potential route for obtaining longer chains and ultra-hard composites. Carbon, 2022, 196, 20-28.	5.4	4
3364	Pressure Induced Superconductivity and Multiple Structural Transitions in CsCl-Type Cubic CeZn Single Crystal. Crystals, 2022, 12, 571.	1.0	2
3365	Crystalline C ₃ N ₃ H ₃ tube (3,0) nanothreads. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2201165119.	3.3	13
3366	Temperature- and Pressure-Dependent Phonon Dynamics Properties of Gallium Selenide Telluride. Journal of Raman Spectroscopy, 0, , .	1.2	3
3367	Stability of Wadsley-type vanadium oxides V ₂ O ₅ and V ₆ O ₁₃ at high pressures. Journal of Alloys and Compounds, 2022, 911, 164966.	2.8	2
3368	Normal to abnormal behavior of PbSiO ₃ glass: A vibrational spectroscopy investigation under high-pressure. Journal of Non-Crystalline Solids, 2022, 589, 121614.	1.5	1
3369	Pressure-triggered enormous redshift and enhanced emission in Ca ₂ Gd ₈ Si ₆ O ₂₆ :Ce ³⁺ phosphors: Ultrasensitive, thermally-stable and ultrafast response pressure monitoring. Chemical Engineering Journal, 2022, 443, 136414.	6.6	58
3371	Pressure-Induced Superconductivity in HgTe Single-Crystal Film. Advanced Science, 2022, 9, e2200590.	5.6	6

#	ARTICLE	IF	CITATIONS
3391	Microstructure evolution in high-pressure phase transformations of CrFeNi and CoCrFeMnNi alloys. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165383.	2.8	3
3392	Dangling Octahedra Enable Edge States in 2D Lead Halide Perovskites. <i>Advanced Materials</i> , 2022, 34, e2201666.	11.1	22
3394	Pressure evolution of electronic and structural properties in transition metal dichalcogenide 1T-Co _{1.06} Te ₂ . <i>Journal of Physics Condensed Matter</i> , 0, , .	0.7	3
3395	High-Pressure Polymorphism in Hydrogen-Bonded Crystals: A Concise Review. <i>Crystals</i> , 2022, 12, 739.	1.0	3
3396	Dimensionality switching and superconductivity transition in dense $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:mtex} \rangle \hat{\alpha}^{\prime} \langle \text{mml:mtex} \rangle \langle \text{mml:mi} \rangle$ Physical Review B, 2022, 105, .	0.7	3
3397	Formation and Stability of Dense Methane-Hydrogen Compounds. <i>Physical Review Letters</i> , 2022, 128, .	2.9	5
3398	Superconductivity above 200 K discovered in superhydrides of calcium. <i>Nature Communications</i> , 2022, 13, .	5.8	89
3399	Pressure-Enhanced Photocurrent in One-Dimensional SbSI via Lone-Pair Electron Reconfiguration. <i>Materials</i> , 2022, 15, 3845.	1.3	6
3400	Structural Phase Transition and Possible Valence Instability of Ce-4 <i>f</i> Electron Induced by Pressure in CeCoSi. <i>Journal of the Physical Society of Japan</i> , 2022, 91, .	0.7	4
3401	Inference of a "Hot Ice" Layer in Nitrogen-Rich Planets: Demixing the Phase Diagram and Phase Composition for Variable Concentration Helium-Nitrogen Mixtures Based on Isothermal Compression. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3745-3757.	1.1	0
3402	Pressure- and temperature-dependent Raman spectra of Ca ₂ Fe ₂ O ₅ oxygen defect perovskite. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 279, 121436.	2.0	3
3403	Pressure-induced photoluminescence enhancement of CeF ₃ :Tb ³⁺ nanoparticles. <i>Nanoscale Advances</i> , 2022, 4, 3226-3232.	2.2	3
3404	Piezochromic luminescence of dicoronylene: Key for revealing hidden Raman modes at high pressure. <i>Carbon</i> , 2022, , .	5.4	1
3405	Symmetry progression and possible polar metallicity in NiPS ₃ under pressure. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	3.9	4
3406	Phase Transitions in Amorphous Germanium under Non-Hydrostatic Compression. <i>Crystals</i> , 2022, 12, 898.	1.0	1
3407	3D stress mapping reveals the origin of lithium-deposition heterogeneity in solid-state lithium-metal batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100938.	2.8	17
3408	In-situ high-pressure and high-temperature spectroscopic studies of phengite in ultrahigh-pressure eclogite: implications for water transport during ultra-deep continental subduction. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.3	2
3409	The mechanism behind SnO metallization under high pressure. <i>Results in Physics</i> , 2022, 39, 105750.	2.0	1

#	ARTICLE	IF	CITATIONS
3410	High-Pressure Synthesis and Stability Enhancement of Lithium Pentazolate. <i>Inorganic Chemistry</i> , 2022, 61, 9012-9018.	1.9	2
3411	Exchanged Metal-Hydrogen Anagostic Bonds and Resonance of Dithiocarbamate and Thioureide Mesomers**. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	3
3412	High-Pressure Synthesis of In_2Se_3 -Like Structures in Ga_2S_3 . <i>Chemistry of Materials</i> , 2022, 34, 6068-6086.	3.2	3
3413	Effect of quasi hydrostatic and non hydrostatic pressure on long S-S bonded sodium dithionite ($\text{Na}_2\text{S}_2\text{O}_4$): A Raman Spectroscopic study. <i>Journal of Solid State Chemistry</i> , 2022, 313, 123315.	1.4	1
3414	Equation of State and Electrical Transport Properties of Li_2MnO_3 at High Pressure. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3415	Pressure engineering of intertwined phase transitions in lanthanide monopnictide NdSb . <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	2.0	2
3416	Understanding Electron-Phonon Interactions in 3D Lead Halide Perovskites from the Stereochemical Expression of $6s^2$ Lone Pairs. <i>Journal of the American Chemical Society</i> , 2022, 144, 12247-12260.	6.6	38
3417	Evidence for Dissociation and Ionization in Shock Compressed Nitrogen to 800 GPa. <i>Physical Review Letters</i> , 2022, 129, .	2.9	7
3418	Pressure-induced local structural crossover in a high-entropy metallic glass. <i>Physical Review B</i> , 2022, 105, .	1.1	2
3419	High-Pressure Synthesis of Highly Conjugated Polymers via Synergistic Polymerization of Phenylpropionic Acid. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5246-5252.	2.0	2
3420	Coevolution of Superconductivity With Structure and Hall Coefficient in Pressurized NaSn_2As_2 . <i>Frontiers in Electronic Materials</i> , 0, 2, .	1.6	3
3421	Metal Site Substitution and Role of the Dimer on Symmetry Breaking in FePS_3 and CrPS_4 under Pressure. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3246-3255.	2.0	4
3422	Equation of state of elbaite at high pressure up to 21.1 GPa and room temperature. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.3	1
3423	Quasi-uniaxial pressure induced superconductivity in the stoichiometric compound UTe_2 . <i>Physical Review B</i> , 2022, 106, .		
3424	Supersensitive Ratiometric Thermometry and Manometry Based on Dual-Emitting Centers in $\text{Eu}^{2+}/\text{Sm}^{2+}$ -Doped Strontium Tetraborate Phosphors. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	35
3425	Distinct superconducting behaviors of pressurized WB_2 and ReB_2 with different local B layers. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	2.0	11
3426	Melting of the Fe-C-H System and Earth's Deep Carbon-Hydrogen Cycle. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	3
3427	The iron spin transition of deep nitrogen-bearing mineral $\text{Fe}_3\text{N}_{1.2}$ at high pressure. <i>American Mineralogist</i> , 2022, , .	0.9	0

#	ARTICLE	IF	CITATIONS
3428	Single-crystal X-ray diffraction of fluorapatite to 61 GPa. <i>American Mineralogist</i> , 2022, , .	0.9	1
3429	The high-pressure structural evolution of ErVO ₄ investigated by photoluminescence spectroscopy. <i>Materials Letters</i> , 2022, 324, 132796.	1.3	1
3430	Influence of dynamic compression on the phase transition of cyclohexane. <i>Journal of Molecular Liquids</i> , 2022, 363, 119836.	2.3	2
3431	Confirmation of Phase Transitions and Laser-Assisted Chemical Reaction for Pyridine under High Pressure. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12536-12544.	1.5	6
3432	Thermal Conductivity of BAs under Pressure. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	5
3433	Structural evolution and ferroelectric properties of relaxor ferroelectric single crystal Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.28PbTiO ₃ under high pressure. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	3
3434	High-pressure behavior and phase transition of jadarite, a promising B and Li mineral commodity. <i>Journal of the American Ceramic Society</i> , 2022, 105, 7011-7021.	1.9	3
3435	Pressure-Induced Structural Phase Transition, Anomalous Insulator-to-Metal Transition, and ρ Conduction-Type Switching in Defective, NiAs-Type Cr _{1-x} Te. <i>Inorganic Chemistry</i> , 2022, 61, 11923-11931.	1.9	6
3436	Single crystal elasticity and equation of state of tantalum up to 54 GPa. <i>Journal of Applied Physics</i> , 2022, 132, 055902.	1.1	0
3437	In-plane and out-of-plane optical response of the nodal-line semimetals ZrGeS and ZrGeSe. <i>Physical Review B</i> , 2022, 106, .	1.1	3
3438	Effect of Al ₂ O ₃ on Sound Velocity of MgSiO ₃ Glass at High Pressure. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 1069.	0.8	4
3439	Crystal structure solution of a high-pressure polymorph of scintillating MgMoO_4 and its electronic structure. <i>Physical Review B</i> , 2022, 106, .		
3440	Pressure-Driven Phase Transition in Two-Dimensional Perovskite $\text{MHy}_2\text{PbBr}_4$. <i>Chemistry of Materials</i> , 2022, 34, 7867-7877.	3.2	21
3441	Cascade of pressure-driven phase transitions in the topological nodal-line superconductor PbTaSe_2 . <i>Physical Review B</i> , 2022, 106, .	1.1	3
3442	High-pressure Cr ³⁺ R-line luminescence of zoisite and kyanite: a probe of octahedral site distortion. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.3	1
3443	High-pressure and High-temperature Single-crystal Elasticity of Cr ₂ Pyrope: Implications for the Density and Seismic Velocity of Subcontinental Lithospheric Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	0
3444	Suppression of Pressure-Induced Phase Transitions in a Monoclinically Distorted LiNbO ₃ -Type CuNbO ₃ by Preference for a CuO ₃ Triangular Coordination Environment. <i>Inorganic Chemistry</i> , 2022, 61, 12719-12725.	1.9	0
3445	Morphology Tuned Pressure Induced Amorphization in VO ₂ (B) Nanobelts. <i>Inorganics</i> , 2022, 10, 122.	1.2	1

#	ARTICLE	IF	CITATIONS
3446	Stability of the tetragonal phase of BaZrO_3 under high pressure. <i>Physical Review B</i> , 2022, 106, .		
3447	Preservation of high-pressure volatiles in nanostructured diamond capsules. <i>Nature</i> , 2022, 608, 513-517.	13.7	13
3448	Pressure-induced superconductivity in quasi-one-dimensional semimetal TaTe_5 . <i>Physical Review Materials</i> , 2022, 6, .	2.9	6
3449	Experimental and theoretical examination of shock-compressed copper through the fcc to bcc to melt phase transitions. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	10
3450	The structure of sc16GaP obtained at 17.5 GPa and 1400 K. <i>High Pressure Research</i> , 0, , 1-9.	0.4	0
3451	Short-Range Crystalline Order-Tuned Conductivity in $\text{Cr}_2\text{Si}_2\text{Te}_6$ van der Waals Magnetic Crystals. <i>ACS Nano</i> , 2022, 16, 13134-13143.	7.3	6
3452	Nested order-disorder framework containing a crystalline matrix with self-filled amorphous-like inners. <i>Nature Communications</i> , 2022, 13, .	5.8	29
3453	Magnetism in four-layered $\text{Al}_2\text{V}_2\text{O}_{14}$. <i>Nature Communications</i> , 2022, 13, .	1.0	1
3454	Fluorescence-based monitoring of the pressure-induced aggregation microenvironment evolution for an AIEgen under multiple excitation channels. <i>Nature Communications</i> , 2022, 13, .	5.8	16
3455	Enhanced Mechanical Stability and Proton Conductivity Performance from the Dense Mn(II)-Metal-Organic Framework to Porous Mn(II)-Fe(III)-Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2022, 61, 15166-15174.	1.9	4
3456	High-pressure structural stability and bandgap engineering of layered tin disulfide. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	3
3458	High-pressure behavior and crystal-fluid interaction in natural erionite-K. <i>Materials Chemistry and Physics</i> , 2022, 292, 126760.	2.0	2
3459	High-pressure, high-temperature synthesis of nanostructured polydiphenylbutadiyne confined in the 1-dimensional pores of single crystal AlPO_4 . <i>CrystEngComm</i> , 0, , .	1.3	0
3460	Pressure-induced structural transitions, alloying and superconductivity in topological insulators $\text{Bi}_2\text{Te}_2\text{Se}$ and $\text{Bi}_2\text{Se}_2\text{Te}$. <i>Dalton Transactions</i> , 2022, 51, 14630-14638.	1.6	2
3461	Dual role of oxygen-related defects in the luminescence kinetics of AlN:Mn^{2+} . <i>Dalton Transactions</i> , 2022, 51, 14297-14305.	1.6	5
3462	Pressure-induced phase transition in BiNbO_4 . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 20546-20552.	1.3	5
3463	High pressure Raman study of LiClO_4 . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2023, 285, 121914.	2.0	0
3464	Preference of High-Nitrogen-Content Compounds to Form Hydrates and the Tandem Contacts of Azide Groups. <i>Crystal Growth and Design</i> , 2022, 22, 5996-6003.	1.4	4

#	ARTICLE	IF	CITATIONS
3465	Atomic distribution and local structure in ice VII from in situ neutron diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
3466	Structural and electronic phase transitions in $Zr_{1-x}Hf_xN$ at high pressure. Physical Review B, 2022, 106, .	1.0	1
3467	HTD2: a single-crystal X-ray diffractometer for combined high-pressure/low-temperature experiments at laboratory scale. Journal of Applied Crystallography, 2022, 55, 1255-1266.	1.9	2
3468	Pressure Tuning Resonance Raman Scattering in Monolayer, Trilayer, and Many-Layer Molybdenum Disulfide. ACS Applied Nano Materials, 2022, 5, 14464-14469.	2.4	3
3469	Comparative Study on Properties, Structural Changes, and Isomerization of Cis/Trans-Stilbene under High Pressure. Journal of Physical Chemistry C, 2022, 126, 16859-16866.	1.5	2
3470	Pressure Engineering Promising Transparent Oxides with Large Conductivity Enhancement and Strong Thermal Stability. Advanced Science, 0, , 2202973.	5.6	1
3471	Pressure-induced superconductivity in the kagome single-crystal $Pd_2P_2S_8$. Physical Review B, 2022, 106, .	1.1	5
3472	Melting of basaltic lithologies in the Earth's lower mantle. Physics of the Earth and Planetary Interiors, 2022, 333, 106938.	0.7	2
3473	A Comprehensive Review of High-Pressure Laser-Induced Materials Processing, Part I: Laser-Heated Diamond Anvil Cells. Journal of Manufacturing and Materials Processing, 2022, 6, 111.	1.0	5
3474	Experimental and Theoretical Raman Spectroscopy of Isotopically Pure and Diluted Ice VI. Journal of Physical Chemistry C, 2022, 126, 17359-17365.	1.5	3
3475	Water-cooling diamond anvil cells: An approach to temperature–pressure relation in heated experiments. Review of Scientific Instruments, 2022, 93, 103904.	0.6	0
3476	Pressure-induced superconductivity extending across the topological phase transition in thallium-based topological materials. Cell Reports Physical Science, 2022, 3, 101094.	2.8	5
3478	Pressure- and Temperature-Induced Structural Phase Diagram of Lead-Free $(K_{0.5}Na_{0.5})NbO_3$ – $0.05LiNbO_3$ Single Crystals: Raman Scattering and Infrared Study. ACS Applied Materials & Interfaces, 2022, 14, 45590-45599.	4.0	2
3480	A 1D Cu(I)-pyrazine coordination polymer with controlled pressure-induced phase transition and opto-electronic response depending on mechanical stimuli, temperature, and CuI content. Journal of Materials Chemistry C, 2022, 10, 18004-18016.	2.7	6
3481	Effect of hexagonality on the pressure-dependent lattice dynamics of 4H-SiC. New Journal of Physics, 2022, 24, 113015.	1.2	4
3482	Pressure-Induced Tunable Charge Carrier Dynamics in Mn-Doped CsPbBr ₃ Perovskite. Materials, 2022, 15, 6984.	1.3	2
3483	Reassigning the Pressure-Induced Phase Transitions of Methylammonium Lead Bromide Perovskite. Journal of the American Chemical Society, 2022, 144, 20099-20108.	6.6	22
3484	Pressure-induced superconductivity in magnetic topological insulator candidate $MnSb_{1-x}Bi_x$. Physical Review Materials, 2022, 6, .	0.9	1

#	ARTICLE	IF	CITATIONS
3485	Pressure-induced topological and structural phase transitions in natural van der Waals heterostructures from the SnTe/r Physical Review B, 2022, 106, .	1.1	0
3486	Pressure-Tuning Superconductivity in Noncentrosymmetric Topological Materials ZrRuAs. Materials, 2022, 15, 7694.	1.3	1
3487	Reconfiguring band-edge states and charge distribution of organic semiconductorâ€“incorporated 2D perovskites via pressure gating. Science Advances, 2022, 8, .	4.7	28
3488	Discovery of high-pressure post-perovskite phase in HoCrO ₃ . Journal of Physics and Chemistry of Solids, 2023, 172, 111078.	1.9	4
3489	In situ high-pressure infrared spectroscopy of carbonophosphates Na ₃ Mn(PO ₄)(CO ₃) and Na ₃ Mg(PO ₄)(CO ₃). Journal of Alloys and Compounds, 2023, 933, 167807.	2.8	3
3490	Mechanical Properties of a New Hybrid Inorganicâ€“Organic Framework: A Nanoindentation, High-Pressure X-ray Diffraction, and Computational Study. Crystal Growth and Design, 2022, 22, 6984-6994.	1.4	0
3491	High-pressure behavior of gasparite-(Ce) (nominally CeAsO ₄), a monazite-type arsenate. Physics and Chemistry of Minerals, 2022, 49, .	0.3	0
3492	Influence of lattice defects on the high pressure properties of Ni _{0.66} Mn _{2.34} O ₄ NTC ceramics. Ceramics International, 2023, 49, 9412-9418.	2.3	3
3493	Investigation of null-matrix alloy gaskets for a diamond-anvil-cell on high pressure neutron diffraction experiments. High Pressure Research, 0, , 1-15.	0.4	0
3494	Cesium-mediated electron redistribution and electron-electron interaction in high-pressure metallic CsPbI ₃ . Nature Communications, 2022, 13, .	5.8	10
3495	High-pressure synthesis and crystal structures of molybdenum nitride Mo ₃ N ₅ with anisotropic compressibility by a nitrogen dimer. Dalton Transactions, 2023, 52, 469-475.	1.6	4
3496	Experimental and theoretical study of As_2Te_3 under hydrostatic pressure. Journal of Materials Chemistry C, 0, , .	2.7	1
3498	In-situ investigation of the vibrational properties of H ₂ O CO ₂ -bearing and dry K-rich basaltic glasses at high pressure by mid infrared spectroscopy. Journal of Non-Crystalline Solids, 2023, 602, 122085.	1.5	0
3499	Suppressed charge-density-wave, robust ferromagnetism and Lifshitz transition in Sm ₂ Ru ₃ Ge ₅ crystal under high pressure. Journal of Alloys and Compounds, 2023, 937, 168337.	2.8	4
3500	Anomalous thermal transport under high pressure in boron arsenide. Nature, 2022, 612, 459-464.	13.7	25
3501	Enhanced Second-Harmonic Generation of van der Waals CuInP ₂ S ₆ via Pressure-Regulated Cationic Displacement. Chemistry of Materials, 2023, 35, 242-250.	3.2	10
3502	Modulations in Superconductors: Probes of Underlying Physics. Advanced Materials, 2023, 35, .	11.1	0
3503	Coherent Control and Magnetic Detection of Divacancy Spins in Silicon Carbide at High Pressures. Nano Letters, 2022, 22, 9943-9950.	4.5	8

#	ARTICLE	IF	CITATIONS
3504	High-pressure investigations in CH_3X ($\text{X} = \text{Tl, Pb, Bi, Sb, As, Sn, Te, Se, S}$). <i>Physical Review B</i> , 2022, 106, .	10.0	10
3505	Quasi-One-Dimensional Metallicity in Compressed CsSn_3 . <i>Journal of the American Chemical Society</i> , 2022, 144, 23595-23602.	6.6	2
3506	Superconductivity arising from pressure-induced emergence of a Fermi surface in the kagome-lattice chalcogenide Rb_2X_3 ($\text{X} = \text{S, Se, Te}$). <i>Physical Review B</i> , 2022, 106, .	1.1	3
3507	Pressure-induced band-gap energy increase in a metal iodate. <i>Physical Review B</i> , 2022, 106, .	1.1	4
3508	Pressure-Induced Superconductivity in PdTe with Quasi-One-Dimensional PdTe Chains. <i>Crystals</i> , 2022, 12, 1833.	1.0	3
3509	Hydroxylherderite ($\text{Ca}_2\text{Be}_2\text{P}_2\text{O}_8(\text{OH})_2$) stability under extreme conditions (up to $750^\circ\text{C}/100\text{GPa}$). <i>Journal of the American Ceramic Society</i> , 2023, 106, 2622-2634.	1.9	2
3510	Ruby High Pressure Scale. <i>Russian Physics Journal</i> , 2022, 65, 1172-1178.	0.2	1
3511	Thermal conductivity of iron and nickel during melting: Implication to the planetary liquid outer core. <i>Pramana - Journal of Physics</i> , 2023, 97, .	0.6	2
3512	High-Performance Hydrogels via Alternate Compression–Decompression. <i>Journal of Physical Chemistry C</i> , 2022, 126, 21825-21832.	1.5	1
3513	Flipping of antiferromagnetic to superconducting states in pressurized quasi-one-dimensional manganese-based compounds. <i>Physical Review B</i> , 2022, 106, .	1.1	6
3514	Pressure-induced phase transition of CO_3^{2-} -bearing scapolite by in situ X-ray diffraction and vibrational spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2023, 50, .	0.3	1
3515	Highly Pressure-Sensitive, Temperature Independent Luminescence Ratiometric Manometer Based on $\text{MgO}:\text{Cr}^{3+}$ Nanoparticles. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	19
3516	Pressure-induced nontrivial band topology and superconductivity in the transition metal chalcogenide Z_2X_3 ($\text{X} = \text{S, Se, Te}$). <i>Physical Review B</i> , 2023, 107, .	1.1	3
3517	Regulating the photoluminescence and energy transfer process of $\text{Sr}_5(\text{PO}_4)_3\text{Cl}:\text{Eu}^{2+}$, Mn^{2+} via pressure-induced phase transition. <i>Journal of Materials Chemistry C</i> , 2023, 11, 2162-2168.	2.7	3
3518	Ultrathin quantum light source with van der Waals NbOCl_2 crystal. <i>Nature</i> , 2023, 613, 53-59.	13.7	56
3519	Superconducting and structural properties of the phosphorus-rich Nb_2P_5 superconductor under high pressure. <i>Tungsten</i> , 2023, 5, 364-369.	2.0	3
3520	Superconductivity in SrB_3C_3 clathrate. <i>Physical Review Research</i> , 2023, 5, .	1.3	10
3521	Anisotropic compressional behaviour of the Sorel cement F5-phase ($\text{Mg}_3(\text{OH})_5\text{Cl}\cdot 4\text{H}_2\text{O}$). <i>Construction and Building Materials</i> , 2023, 366, 130162.	3.2	0

#	ARTICLE	IF	CITATIONS
3522	Topologically prone or cation compression restricted phase transition: An example of feldspar-related SrGe ₂ B ₂ O ₈ . Journal of Alloys and Compounds, 2023, 938, 168642.	2.8	1
3523	Insulator-to-Superconductor Transition in Quasi-One-Dimensional HfS ₃ under Pressure. Journal of the American Chemical Society, 2023, 145, 1301-1309.	6.6	9
3524	Biaxial Hard Compression, Anisotropic Elastic Property, and Pressure-Induced Isosymmetric Phase Transition in Ammonium Bicarbonate. Journal of Physical Chemistry C, 2023, 127, 831-841.	1.5	1
3525	Pressure-Induced Structural Phase Transitions in the Chromium Spinel LiInCr ₄ O ₈ with Breathing Pyrochlore Lattice. Crystals, 2023, 13, 170.	1.0	1
3526	Pressure-Induced Reverse Structural Transition of Calcite at Temperatures up to 873 K and Pressures up to 19.7 GPa. Minerals (Basel, Switzerland), 2023, 13, 188.	0.8	2
3527	Rewritable Pressure-Driven π -Conduction Switching in Marcasite-Type CrSb ₂ . Chemistry of Materials, 2023, 35, 1449-1457.	3.2	5
3528	Unexpected giant negative area compressibility in palladium diselenide. National Science Review, 2023, 10, .	4.6	3
3529	High-Pressure Magnetic Properties and Electrical Transport Behaviors of Half-Metallic Ferromagnet CrO ₂ . Physical Chemistry Chemical Physics, 0, , .	1.3	0
3530	Structural Stability and Electronic Transport Properties of Nb ₂ Câ€™Xenes under High Pressure. Advanced Electronic Materials, 2023, 9, .	2.6	1
3531	Advancing neutron diffraction for accurate structural measurement of light elements at megabar pressures. Scientific Reports, 2023, 13, .	1.6	3
3532	Magnetic Spin-Flop Transition of μ -FeOOH at 8 GPa. Journal of the Physical Society of Japan, 2023, 92, .	0.7	0
3533	Experimental and theoretical revelation of a unique band topology in SbTe ₂ . Physical Review Materials, 2023, 7, .	1.7	0
3534	Anti-Stokes/Stokes temperature calibration and its application in laser-heating diamond anvil cell. Chinese Physics B, 0, , .	0.7	0
3535	Structural and electronic properties of Weyl semimetal WTe ₂ under high pressure. Journal of Solid State Chemistry, 2023, 323, 124015.	1.4	0
3537	Nodeless Superconductivity in Kagome Metal CsV ₃ Sb ₅ with and without Time Reversal Symmetry Breaking. Nano Letters, 2023, 23, 872-879.	4.5	15
3538	Pressure-mediated crystal-fluid interaction in the zeolite offretite. Journal of Solid State Chemistry, 2023, 320, 123847.	1.4	1
3539	Ferrimagnetic coupling between cobalt and light rare-earth samarium induced by dense hydrogenation of SmCo ₅ permanent magnet under high pressures. Physical Review Materials, 2023, 7, .	0.9	0
3540	Pressure-induced structural transition and low-temperature recovery of sodium pentazolate. Chinese Physics B, 2023, 32, 046202.	0.7	0

#	ARTICLE	IF	CITATIONS
3541	White Laue and powder diffraction studies to reveal mechanisms of HCP-to-BCC phase transformation in single crystals of Mg under high pressure. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
3542	Nitrogen impacts on structural stability of feldspar: Constraints from high temperature and high pressure spectroscopy and machine learning. <i>Physics of the Earth and Planetary Interiors</i> , 2023, 336, 106997.	0.7	0
3543	Vibronic Relaxation Pathways in Molecular Spin Qubit $\text{Na}_9[\text{Ho}(\text{W}_5\text{O}_{18})_2] \cdot 35\text{H}_2\text{O}$ under Pressure. <i>Magnetochemistry</i> , 2023, 9, 53.	1.0	0
3544	Response of vibrational properties and thermal conductivity of perovskites to pressure. <i>Materials Today Physics</i> , 2023, 32, 101010.	2.9	1
3545	High-Pressure Structural and Thermodynamic Properties of Cerium Orthosilicates (CeSiO_4). <i>Journal of Physical Chemistry C</i> , 2023, 127, 4225-4238.	1.5	4
3546	Equations of State and Crystal Structures of KCaPO_4 , K_2SrPO_4 , and $\text{K}_2\text{Ce}(\text{PO}_4)_2$ under High Pressure: Discovery of a New Polymorph of KCaPO_4 . <i>Crystal Growth and Design</i> , 2023, 23, 2782-2794.	1.4	1
3548	Eu^{2+} -Doped $\text{Ca}_4\text{Y}_3\text{Si}_7\text{O}_{15}\text{N}_5$ Phosphor with High Thermal Stability and Pressure Sensitivity for Dual-Functional Applications in W-LEDs and Pressure Sensors. <i>Inorganic Chemistry</i> , 2023, 62, 4361-4372.	1.9	12
3549	High-pressure studies of atomically thin van der Waals materials. <i>Applied Physics Reviews</i> , 2023, 10, .	5.5	9
3550	Phase Transition of Zeolite X under High Pressure and Temperature. <i>Economic and Environmental Geology</i> , 2023, 56, 13-21.	0.2	0
3551	Experimental and Computational Study on the Effects of High Pressure on the Crystal Structure of Boron Nitrilotriacetate. <i>Crystal Growth and Design</i> , 2023, 23, 2745-2754.	1.4	1
3552	Structural Behavior of Minrecordite Carbonate Mineral upon Compression: Effect of Mg at Zn Chemical Substitution in Dolomite-Type Compounds. <i>ACS Omega</i> , 2023, 8, 10403-10410.	1.6	0
3553	Ultrafast dynamics under high-pressure. <i>Journal of Physics Condensed Matter</i> , 2023, 35, 253002.	0.7	1
3554	Pressure induced isostructural phase transition with volume expansion in DyFeO_3 orthoferrite. <i>Applied Physics Letters</i> , 2023, 122, 111601.	1.5	1
3555	Pressure-induced structural phase transitions in natural monazite. <i>Physical Review B</i> , 2023, 107, .	1.1	0
3556	Effects of Spin Transition and Cation Substitution on the Optical Properties and Iron Partitioning in Carbonate Minerals. <i>Acta Geologica Sinica</i> , 2023, 97, 350-357.	0.8	2
3557	Superconductivity emerging from a pressurized van der Waals kagome material $\text{Pd}_3\text{P}_2\text{S}_8$. <i>New Journal of Physics</i> , 2023, 25, 043001.	1.2	4
3558	Comparative structural evolution under pressure of powder and single crystals of the layered antiferromagnet FePS_3 . <i>Physical Review B</i> , 2023, 107, .	1.1	2
3559	Effect of pressure of vanadium nitride using XRD and DFT. <i>High Pressure Research</i> , 2023, 43, 58-67.	0.4	0

#	ARTICLE	IF	CITATIONS
3560	Effects of High Pressure on the Bandgap and the d-d Crystal Field Transitions in Wolframite NiWO ₄ . Journal of Physical Chemistry C, 2023, 127, 6543-6551.	1.5	7
3561	Structure, Magnetotransport, and Theoretical Study on the Layered Antiferromagnet Topological Phase EuCd ₂ As ₂ under High Pressure. Advanced Quantum Technologies, 2023, 6, .	1.8	5
3562	Electrical transport under extreme conditions in the spin-ladder antiferromagnet $\text{TaFe}_{1.25}\text{O}_2$. Physical Review B, 2023, 107, .	1.25	1
3563	Pressure-Induced Structural Phase Transition and Enhanced Interlayer Coupling in Two-Dimensional Ferromagnet CrSiTe ₃ . Journal of Physical Chemistry Letters, 2023, 14, 3320-3328.	2.1	3
3565	Giant Pressure-Induced Spectral Shift in Cyan-Emitting Eu ²⁺ -Activated Sr ₈ Si ₄ O ₁₂ Cl ₈ Microspheres for Ultrasensitive Visual Manometry. Advanced Functional Materials, 2023, 33, .	7.8	26
3566	Pressure-induced superconductivity in the photoelectric semiconductor BiSeI. Physical Review B, 2023, 107, .	1.1	1
3567	Novel non-Joule heating technique: Externally laser-heated diamond anvil cell. Review of Scientific Instruments, 2023, 94, 043901.	0.6	1
3568	Pressure-induced ferroelectric-to-superconductor transition in SnPS_3 . Physical Review B, 2023, 107, .	1.1	0
3569	Pressure evolution of electronic and crystal structure of noncentrosymmetric EuCoGe_3 . Physical Review B, 2023, 107, .	1.1	0
3570	Eu ²⁺ and Mn ²⁺ co-doped Lu ₂ Mg ₂ Al ₂ Si ₂ O ₁₂ phosphors for high sensitivity and multi-mode optical pressure sensing. Inorganic Chemistry Frontiers, 2023, 10, 2788-2798.	3.0	8
3571	Lattice constants and magnetism of L10-ordered FePt under high pressure. Applied Physics Letters, 2023, 122, .	1.5	3
3572	Pressure-induced insulator-to-metal transition in the van der Waals compound CoPS_3 . Physical Review B, 2023, 107, .	1.1	0
3573	Low-density preference of the ambient and high-pressure polymorphs of DL-menthol. IUCr, 2023, 10, 341-351.	1.0	0
3574	Anisotropic thermal property characterizations and optical phonon contribution analysis of ZnO under high pressure. Journal of Materials Research and Technology, 2023, 24, 5337-5346.	2.6	2
3575	On the anomalous high-pressure phase transition of inderite, MgB ₃ O ₃ (OH)5·5H ₂ O. Solid State Sciences, 2023, , 107187.	1.5	0