

Jung-Fu Lin

List of Publications by Year in descending order

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197
papers

8,746
citations

46918

47
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54797

84
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210
all docs

210
docs citations

210
times ranked

8783
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous FeOOH Oxygen Evolution Reaction Catalyst for Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2014, 136, 2843-2850.	6.6	524
2	Pressure-induced semiconducting to metallic transition in multilayered molybdenum disulphide. Nature Communications, 2014, 5, 3731.	5.8	495
3	Combined Charge Carrier Transport and Photoelectrochemical Characterization of BiVO ₄ Single Crystals: Intrinsic Behavior of a Complex Metal Oxide. Journal of the American Chemical Society, 2013, 135, 11389-11396.	6.6	435
4	Spin transition of iron in magnesiowüstite in the Earth's lower mantle. Nature, 2005, 436, 377-380.	13.7	323
5	Pressure-Dependent Optical and Vibrational Properties of Monolayer Molybdenum Disulfide. Nano Letters, 2015, 15, 346-353.	4.5	284
6	EFFECTS OF THE ELECTRONIC SPIN TRANSITIONS OF IRON IN LOWER MANTLE MINERALS: IMPLICATIONS FOR DEEP MANTLE GEOPHYSICS AND GEOCHEMISTRY. Reviews of Geophysics, 2013, 51, 244-275.	9.0	201
7	Spin Transition Zone in Earth's Lower Mantle. Science, 2007, 317, 1740-1743.	6.0	196
8	Sound Velocities of Hot Dense Iron: Birch's Law Revisited. Science, 2005, 308, 1892-1894.	6.0	149
9	Iron-Silicon Alloy in Earth's Core?. Science, 2002, 295, 313-315.	6.0	140
10	Crystal structure of a high-pressure/high-temperature phase of alumina by in situ X-ray diffraction. Nature Materials, 2004, 3, 389-393.	13.3	135
11	Intermediate-spin ferrous iron in lowermost mantle post-perovskite and perovskite. Nature Geoscience, 2008, 1, 688-691.	5.4	131
12	X-ray Raman scattering study of MgSiO ₃ glass at high pressure: Implication for triclustered MgSiO ₃ melt in Earth's mantle. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7925-7929.	3.3	123
13	Pressure-Modulated Conductivity, Carrier Density, and Mobility of Multilayered Tungsten Disulfide. ACS Nano, 2015, 9, 9117-9123.	7.3	120
14	Synthesis of clathrate cerium superhydride CeH ₉ at 80-100 GPa with atomic hydrogen sublattice. Nature Communications, 2019, 10, 4453.	5.8	117
15	The spin state of iron in minerals of Earth's lower mantle. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	111
16	Sound velocities of iron-nickel and iron-silicon alloys at high pressures. Geophysical Research Letters, 2003, 30, .	1.5	107
17	Recent advances in high-pressure science and technology. Matter and Radiation at Extremes, 2016, 1, 59-75.	1.5	98
18	Sound velocities of Fe and Fe-Si alloy in the Earth's core. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10239-10244.	3.3	93

#	ARTICLE	IF	CITATIONS
19	Origin of superconductivity in the Weyl semimetal $WT_{2}e_{2}$ under pressure. Physical Review B, 2016, 94, .	1.1	91
20	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
21	High pressure-temperature Raman measurements of $H_{2}O$ melting to 22 GPa and 900 K. Journal of Chemical Physics, 2004, 121, 8423.	1.2	88
22	Spin transition of iron in the Earth's lower mantle. Physics of the Earth and Planetary Interiors, 2008, 170, 248-259.	0.7	84
23	Improved Visible Light Harvesting of WO_{3} by Incorporation of Sulfur or Iodine: A Tale of Two Impurities. Chemistry of Materials, 2014, 26, 1670-1677.	3.2	83
24	Melting behavior of $H_{2}O$ at high pressures and temperatures. Geophysical Research Letters, 2005, 32, .	1.5	81
25	Electronic bonding transition in compressed SiO_{2} glass. Physical Review B, 2007, 75, .	1.1	81
26	Pressure-induced electronic spin transition of iron in magnesiowustite-(Mg,Fe)O. Physical Review B, 2006, 73, .	1.1	78
27	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 GPa. Physics and Chemistry of Minerals, 2006, 33, 575-585.	0.3	77
28	Thermal Conductivity Enhancement in MoS_{2} under Extreme Strain. Physical Review Letters, 2019, 122, 155901.	2.9	77
29	Static compression of iron-silicon alloys: Implications for silicon in the Earth's core. Journal of Geophysical Research, 2003, 108, .	3.3	73
30	In situ high P-T Raman spectroscopy and laser heating of carbon dioxide. Journal of Chemical Physics, 2004, 121, 2780.	1.2	70
31	Magnetic transition and sound velocities of $Fe_{3}S$ at high pressure: implications for Earth and planetary cores. Earth and Planetary Science Letters, 2004, 226, 33-40.	1.8	70
32	Thermal equation of state of lower-mantle ferropericlase across the spin crossover. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	70
33	Using the Earth as a Polarized Electron Source to Search for Long-Range Spin-Spin Interactions. Science, 2013, 339, 928-932.	6.0	69
34	Sound velocities of hydrous ringwoodite to 16GPa and 673K. Earth and Planetary Science Letters, 2012, 331-332, 112-119.	1.8	66
35	Magnetic transition in compressed $Fe_{3}C$ from x-ray emission spectroscopy. Physical Review B, 2004, 70, .	1.1	64
36	Vibrational and elastic properties of ferromagnesite across the electronic spin-pairing transition of iron. American Mineralogist, 2012, 97, 583-591.	0.9	64

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37	Stability of magnesiowustite in Earth's lower mantle. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4405-4408.	3.3	62
38	Elasticity of single-crystal olivine at high pressures and temperatures. Earth and Planetary Science Letters, 2015, 426, 204-215.	1.8	61
39	Electronic spin states of ferric and ferrous iron in the lower-mantle silicate perovskite. American Mineralogist, 2012, 97, 592-597.	0.9	58
40	Sound velocities of ferropericlase in the Earth's lower mantle. Geophysical Research Letters, 2006, 33, .	1.5	57
41	Effects of iron on the lattice thermal conductivity of Earth's deep mantle and implications for mantle dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4099-4104.	3.3	57
42	Electrical conductivity of the lower mantle ferropericlase across the electronic spin transition. Geophysical Research Letters, 2007, 34, .	1.5	56
43	Experimental evidence of exciton capture by mid-gap defects in CVD grown monolayer MoSe ₂ . Npj 2D Materials and Applications, 2017, 1, .	3.9	56
44	Reduced lattice thermal conductivity of Fe-bearing bridgmanite in Earth's deep mantle. Journal of Geophysical Research: Solid Earth, 2017, 122, 4900-4917.	1.4	53
45	Amorphous boron gasket in diamond anvil cell research. Review of Scientific Instruments, 2003, 74, 4732-4736.	0.6	52
46	Tungsten Hexanitride with Single-Bonded Armchairlike Hexazine Structure at High Pressure. Physical Review Letters, 2021, 126, 065702.	2.9	52
47	Iron-Nickel alloy in the Earth's core. Geophysical Research Letters, 2002, 29, 109-1-109-3.	1.5	51
48	High-Pressure Orthorhombic Ferromagnesite as a Potential Deep-Mantle Carbon Carrier. Scientific Reports, 2015, 5, 7640.	1.6	51
49	Thermal equation of state and spin transition of magnesiosiderite at high pressure and temperature. American Mineralogist, 2014, 99, 84-93.	0.9	48
50	Reconciliation of Experiments and Theory on Transport Properties of Iron and the Geodynamo. Physical Review Letters, 2020, 125, 078501.	2.9	47
51	Raman study at high pressure and the thermodynamic properties of corundum; application of Kieffer's model. American Mineralogist, 1995, 80, 1157-1165.	0.9	46
52	Water Concentration in Single-Crystal (Al,Fe)-Bearing Bridgmanite Grown From the Hydrous Melt: Implications for Dehydration Melting at the Topmost Lower Mantle. Geophysical Research Letters, 2019, 46, 10346-10357.	1.5	46
53	In situ high pressure-temperature Raman spectroscopy technique with laser-heated diamond anvil cells. Review of Scientific Instruments, 2004, 75, 3302-3306.	0.6	45
54	Ruby pressure scale in a low-temperature diamond anvil cell. Journal of Applied Physics, 2012, 112, .	1.1	45

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55	Elasticity of single-crystal iron-bearing pyrope up to 20 GPa and 750 K. Earth and Planetary Science Letters, 2013, 361, 134-142.	1.8	45
56	Unified understanding of the valence transition in the rare-earth monochalcogenides under pressure. Physical Review B, 2013, 87, .	1.1	45
57	Pressure-Induced Charge Transfer Doping of Monolayer Graphene/MoS ₂ Heterostructure. Small, 2016, 12, 4063-4069.	5.2	45
58	Elasticity of Ferropericlase across the Spin Crossover in the Earth's Lower Mantle. Scientific Reports, 2015, 5, 17188.	1.6	44
59	Nuclear resonant scattering at high pressure and high temperature. High Pressure Research, 2004, 24, 447-457.	0.4	42
60	Pressure-decoupled magnetic and structural transitions of the parent compound of iron-based 122 superconductors BaFe ₂ As ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17263-17266.	3.3	42
61	Single-crystal synchrotron X-ray diffraction study of w ^{1/4} stite and magnesio-w ^{1/4} stite at lower-mantle pressures. Journal of Synchrotron Radiation, 2005, 12, 577-583.	1.0	41
62	Iron-rich perovskite in the Earth's lower mantle. Earth and Planetary Science Letters, 2011, 309, 179-184.	1.8	41
63	Experimental study of thermal conductivity at high pressures: Implications for the deep Earth's interior. Physics of the Earth and Planetary Interiors, 2015, 247, 11-16.	0.7	40
64	Absolute temperature measurement in a laser-heated diamond anvil cell. Geophysical Research Letters, 2004, 31, .	1.5	39
65	Deformation of lower-mantle ferropericlase (Mg,Fe)O across the electronic spin transition. Physics and Chemistry of Minerals, 2009, 36, 585-592.	0.3	39
66	Temperature and pressure-induced valence transitions in YbNi . Physical Review B, 2010, 82, .	1.1	39
67	Single-crystal elasticity of the deep-mantle magnesite at high pressure and temperature. Earth and Planetary Science Letters, 2014, 392, 292-299.	1.8	39
68	Low thermal conductivity of iron-silicon alloys at Earth's core conditions with implications for the geodynamo. Nature Communications, 2020, 11, 3332.	5.8	39
69	Anisotropic Saturable and Excited-State Absorption in Bulk ReS ₂ . Advanced Optical Materials, 2018, 6, 1800137.	3.6	38
70	Stacking-Order-Driven Optical Properties and Carrier Dynamics in ReS ₂ . Advanced Materials, 2020, 32, e1908311.	11.1	38
71	Pressure-Induced Phase Transformations in LiAlH ₄ . Journal of Physical Chemistry B, 2006, 110, 11088-11097.	1.2	37
72	Effects of the Fe ³⁺ spin transition on the equation of state of bridgmanite. Geophysical Research Letters, 2015, 42, 4335-4342.	1.5	37

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73	Pressure-Dependent Light Emission of Charged and Neutral Excitons in Monolayer MoSe ₂ . Journal of Physical Chemistry Letters, 2017, 8, 3556-3563.	2.1	36
74	Spin and valence states of iron in Al-bearing silicate glass at high pressures studied by synchrotron Mossbauer and X-ray emission spectroscopy. American Mineralogist, 2014, 99, 415-423.	0.9	35
75	Phase relations of Fe ₃ C and Fe ₇ C ₃ up to 185 GPa and 5200 K: Implication for the stability of iron carbide in the Earth's core. Geophysical Research Letters, 2016, 43, 12,415.	1.5	35
76	A Low Viscosity Lunar Magma Ocean Forms a Stratified Anorthitic Flotation Crust With Mafic Poor and Rich Units. Geophysical Research Letters, 2017, 44, 11,282.	1.5	35
77	Iron isotopic fractionation between silicate mantle and metallic core at high pressure. Nature Communications, 2017, 8, 14377.	5.8	34
78	Abnormal Elasticity of Single-Crystal Magnesiosiderite across the Spin Transition in Earth's Lower Mantle. Physical Review Letters, 2017, 118, 036402.	2.9	34
79	Anisotropic Electron-Phonon Interactions in Angle-Resolved Raman Study of Strained Black Phosphorus. ACS Nano, 2018, 12, 12512-12522.	7.3	33
80	Phase relations of Fe-Si alloy in Earth's core. Geophysical Research Letters, 2009, 36, .	1.5	32
81	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
82	New High-Pressure Phase of CaCO ₃ at the Topmost Lower Mantle: Implication for the Deep-Mantle Carbon Transportation. Geophysical Research Letters, 2018, 45, 1355-1360.	1.5	30
83	Quantum critical point and spin fluctuations in lower-mantle ferropiclasite. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7142-7147.	3.3	29
84	SciPhon: a data analysis software for nuclear resonant inelastic X-ray scattering with applications to Fe, Kr, Sn, Eu and Dy. Journal of Synchrotron Radiation, 2018, 25, 1581-1599.	1.0	29
85	Strong Coupling between 4f Valence Instability and 3d Ferromagnetism in YbxFe4Sb12 Studied by Resonant X-Ray Emission Spectroscopy. Physical Review Letters, 2011, 107, 177203.	2.9	28
86	Shock Compression and Melting of an Fe-Ni-Si Alloy: Implications for the Temperature Profile of the Earth's Core and the Heat Flux Across the Core-Mantle Boundary. Journal of Geophysical Research: Solid Earth, 2018, 123, 1314-1327.	1.4	28
87	Towards band structure and band offset engineering of monolayer Mo ₂ W ₂ S ₂ via Strain. 2D Materials, 2018, 5, 015008.	2.0	28
88	Abnormal Elastic and Vibrational Behaviors of Magnetite at High Pressures. Scientific Reports, 2014, 4, 6282.	1.6	27
89	Abnormal Elasticity of Fe-Bearing Bridgmanite in the Earth's Lower Mantle. Geophysical Research Letters, 2018, 45, 4725-4732.	1.5	27
90	Elasticity of single-crystal periclase at high pressure and temperature: The effect of iron on the elasticity and seismic parameters of ferropiclasite in the lower mantle. American Mineralogist, 2019, 104, 262-275.	0.9	27

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91	Synthesis, electronic transport and optical properties of $\text{Si}_{1-x}\text{Fe}_x\text{O}_3$ single crystals. <i>Journal of Materials Chemistry C</i> , 2016, 4, 559-567.	2.7	26
92	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
93	Role of Valence Fluctuations in the Superconductivity of $\text{Ce}_{1-x}\text{La}_x\text{FeAs}_2$ Compounds. <i>Physical Review Letters</i> , 2014, 113, 086403.	2.9	25
94	Radiative conductivity and abundance of post-perovskite in the lowermost mantle. <i>Earth and Planetary Science Letters</i> , 2017, 479, 43-49.	1.8	25
95	Melting behavior of the lower-mantle ferropericlase across the spin crossover: Implication for the ultra-low velocity zones at the lowermost mantle. <i>Earth and Planetary Science Letters</i> , 2018, 503, 1-9.	1.8	25
96	Valence transitions in the heavy-fermion compound YbCuAl as a function of temperature and pressure. <i>Physical Review B</i> , 2013, 87, .	1.1	24
97	Abnormal acoustic wave velocities in basaltic and (Fe,Al) -bearing silicate glasses at high pressures. <i>Geophysical Research Letters</i> , 2014, 41, 8832-8839.	1.5	24
98	Confirming a pyrolytic lower mantle using self-consistent pressure scales and new constraints on CaSiO_3 perovskite. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4876-4894.	1.4	24
99	Melting curve of vanadium up to 256 GPa: Consistency between experiments and theory. <i>Physical Review B</i> , 2020, 102, .	1.1	24
100	Resonant X-ray emission study of the lower-mantle ferropericlase at high pressures. <i>American Mineralogist</i> , 2010, 95, 1125-1131.	0.9	23
101	Radial x-ray diffraction of tungsten tetraboride to 86% GPa under nonhydrostatic compression. <i>Journal of Applied Physics</i> , 2013, 113, 033507.	1.1	23
102	High-spin Fe^{2+} and Fe^{3+} in single-crystal aluminous bridgmanite in the lower mantle. <i>Geophysical Research Letters</i> , 2016, 43, 6952-6959.	1.5	23
103	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. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3564-3577.	1.4	23
104	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
105	Degree of Permanent Densification in Oxide Glasses upon Extreme Compression up to 24 GPa at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2917-2924.	2.1	22
106	Sound velocities of bcc-Fe and $\text{Fe}_{0.85}\text{Si}_{0.15}$ alloy at high pressure and temperature. <i>Physics of the Earth and Planetary Interiors</i> , 2014, 233, 24-32.	0.7	21
107	Iron partitioning between ferropericlase and bridgmanite in the Earth's lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1074-1087.	1.4	21
108	Transport properties of Fe-Ni-Si alloys at Earth's core conditions: Insight into the viability of thermal and compositional convection. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116614.	1.8	21

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109	Compression studies of gibbsite and its high-pressure polymorph. <i>Physics and Chemistry of Minerals</i> , 1999, 26, 576-583.	0.3	20
110	Pressure-induced phase transitions in gypsum. <i>High Pressure Research</i> , 2000, 17, 57-75.	0.4	20
111	Pressure-induced valence change of YbNiGe ₃ investigated by resonant x-ray emission spectroscopy at the Yb L ₃ edge. <i>Physical Review B</i> , 2014, 89, 120407.	1.1	20
112	Synthesis of large and homogeneous single crystals of water-bearing minerals by slow cooling at deep-mantle pressures. <i>American Mineralogist</i> , 2015, 100, 1483-1492.	0.9	20
113	High pressure Raman study of layered Mo _{0.5} W _{0.5} S ₂ ternary compound. <i>2D Materials</i> , 2016, 3, 025003.	2.0	20
114	Seismic anisotropy of the D ₄₃ layer induced by (001) deformation of post-perovskite. <i>Nature Communications</i> , 2017, 8, 14669.	5.8	20
115	Shear wave anisotropy of textured hcp-Fe in the Earth's inner core. <i>Earth and Planetary Science Letters</i> , 2010, 298, 361-366.	1.8	19
116	Magnesite formation from MgO and CO ₂ at the pressures and temperatures of Earth's mantle. <i>American Mineralogist</i> , 2013, 98, 1211-1218.	0.9	19
117	Coupling-Assisted Renormalization of Excitons and Vibrations in Compressed MoSe ₂ WSe ₂ Heterostructure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5820-5828.	1.5	19
118	Elasticity of single-crystal superhydrous phase B at simultaneous high pressure-temperature conditions. <i>Geophysical Research Letters</i> , 2016, 43, 8458-8465.	1.5	18
119	Non-destructive measurement of photoexcited carrier transport in graphene with ultrafast grating imaging technique. <i>Carbon</i> , 2016, 107, 233-239.	5.4	18
120	Pressure-Dependent Behavior of Defect-Modulated Band Structure in Boron Arsenide. <i>Advanced Materials</i> , 2020, 32, e2001942.	11.1	18
121	Spectral Properties of Anhydrous Carbonates and Nitrates. <i>Earth and Space Science</i> , 2021, 8, e2021EA001844.	1.1	18
122	Mineral Physics Quest to the Earth's Core. <i>Eos</i> , 2009, 90, 21-22.	0.1	17
123	Elasticity of ferropericlase and seismic heterogeneity in the Earth's lower mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8488-8500.	1.4	17
124	Iron partitioning in natural lower-mantle minerals: Toward a chemically heterogeneous lower mantle. <i>American Mineralogist</i> , 2017, 102, 824-832.	0.9	17
125	Elasticity of lower-mantle bridgmanite. <i>Nature</i> , 2018, 564, E18-E26.	13.7	17
126	Picosecond transient thermorefectance for thermal conductivity characterization. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2019, 23, 211-221.	1.4	17

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127	Iron isotopic fractionation in mineral phases from Earth's lower mantle: Did terrestrial magma ocean crystallization fractionate iron isotopes?. <i>Earth and Planetary Science Letters</i> , 2019, 506, 113-122.	1.8	17
128	X-ray emission spectroscopy with a laser-heated diamond anvil cell: a new experimental probe of the spin state of iron in the Earth's interior. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 637-641.	1.0	16
129	Synchrotron Mossbauer spectroscopic study of ferropericlase at high pressures and temperatures. <i>American Mineralogist</i> , 2009, 94, 594-599.	0.9	16
130	Seismic parameters of hcp-Fe alloyed with Ni and Si in the Earth's inner core. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 610-623.	1.4	16
131	Origin of Pressure-induced Superconducting Phase in $K_xFe_2ySe_2$ studied by Synchrotron X-ray Diffraction and Spectroscopy. <i>Scientific Reports</i> , 2016, 6, 30946.	1.6	16
132	Nonlinear Optical Absorption of ReS_2 Driven by Stacking Order. <i>ACS Photonics</i> , 2021, 8, 405-411.	3.2	16
133	Blocked radiative heat transport in the hot pyrolitic lower mantle. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116176.	1.8	15
134	Electronic structure of $YbGa_1Mn_{15}$	1.1	14
135	Anomalous perovskite $PbRuO_3$ stabilized under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20003-20007.	3.3	14
136	Nuclear resonant inelastic X-ray scattering at high pressure and low temperature. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 760-765.	1.0	14
137	Optical signatures of low spin Fe^{3+} in NAL at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3565-3573.	1.4	14
138	Pressure-induced anomalous valence crossover in cubic $YbCu_5$ -based compounds. <i>Scientific Reports</i> , 2017, 7, 5846.	1.6	14
139	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
140	Single-crystal elasticity of (Al,Fe)-bearing bridgmanite and seismic shear wave radial anisotropy at the topmost lower mantle. <i>Earth and Planetary Science Letters</i> , 2019, 518, 116-126.	1.8	14
141	Elasticity of a Pseudoproper Ferroelastic Transition from Stishovite to Post-Stishovite at High Pressure. <i>Physical Review Letters</i> , 2021, 126, 025701.	2.9	14
142	Electronic Spin Transition of Iron in the Earth's Deep Mantle. <i>Eos</i> , 2007, 88, 13.	0.1	13
143	Hybridization and suppression of superconductivity in $CeFeAsO$ Pressure and temperature dependence of the electronic structure. <i>Physical Review B</i> , 2010, 82, .	1.1	13
144	Feldspar Raman shift and application as a magmatic thermobarometer. <i>American Mineralogist</i> , 2018, 103, 600-609.	0.9	13

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145	Pressure effect on Kohn anomaly and electronic topological transition in single-crystal tantalum. <i>Physical Review B</i> , 2019, 100, .	1.1	13
146	Comment on "Spin crossover in (Mg,Fe)O: A Mössbauer effect study with an alternative interpretation of x-ray emission spectroscopy data". <i>Physical Review B</i> , 2007, 75, . https://www.w3.org/1998/Math/MathML	1.1	12
147	Photon density of states of Fe \times 2O \times 3 across high-pressure structural and electronic transitions. <i>Physical Review B</i> , 2011, 84, .	1.1	12
148	Electronic transitions in CePd ₂ Si ₂ studied by resonant x-ray emission spectroscopy at high pressures and low temperatures. <i>Physical Review B</i> , 2012, 86, .	1.1	12
149	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
150	Valence Band X-Ray Emission Spectra of Compressed Germanium. <i>Physical Review Letters</i> , 2006, 96, 137402.	2.9	11
151	and Planetary Science Letters, 2014, 403, 157-165.		
152	Thermal conductivity of Fe-Si alloys and thermal stratification in Earth's core. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	11
153	High-pressure X-ray diffraction and X-ray emission studies on iron-bearing silicate perovskite under high pressures. <i>High Pressure Research</i> , 2010, 30, 230-237.	0.4	10
154	Pressure and Temperature Dependences of the Electronic Structure of CeIrSi ₃ Probed by Resonant X-ray Emission Spectroscopy. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 124701.	0.7	10
155	Garnet-to-Perovskite Transition in Gd ₃ Sc ₂ Ga ₃ O ₁₂ at High Pressure and High Temperature. <i>Inorganic Chemistry</i> , 2013, 52, 431-434.	1.9	10
156	Determination of the full elastic tensor of single crystals using shear wave velocities by Brillouin spectroscopy. <i>American Mineralogist</i> , 2015, 100, 2590-2601.	0.9	10
157	Spin transition of Fe ²⁺ in ringwoodite (Mg,Fe) ₂ SiO ₄ at high pressures. <i>American Mineralogist</i> , 2013, 98, 1803-1810.	0.9	9
158	Anomalous bulk modulus in vanadate spinels. <i>Physical Review B</i> , 2016, 94, .	1.1	9
159	Electronic structures and spin states of BaFe ₂ As ₂ and SrFe ₂ As ₂ probed by x-ray emission spectroscopy at Fe and As K-absorption edges. <i>Physical Review B</i> , 2017, 96, .	1.1	9
160	Equation of State Measurements on Iron Near the Melting Curve at Planetary Core Conditions by Shock and Ramp Compressions. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020008.	1.4	9
161	Large time-varying inductance load for studying power flow on the Z machine. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	0.6	9
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