

Francisco J Manjón

List of Publications by Year in descending order

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185
papers

6,829
citations

53794

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73
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189
all docs

189
docs citations

189
times ranked

6436
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure dependence of the lattice dynamics of ZnO: Anab initioapproach. Physical Review B, 2004, 69, .	3.2	382
2	Silent Raman modes in zinc oxide and related nitrides. Journal of Applied Physics, 2005, 97, 053516.	2.5	340
3	Pressure effects on the structural and electronic properties of ABX4 scintillating crystals. Progress in Materials Science, 2008, 53, 711-773.	32.8	316
4	Dispersive Phonon Linewidths: TheE2Phonons of ZnO. Physical Review Letters, 2003, 90, 055510.	7.8	174
5	High-pressure structural study of the scheelite tungstatesCaWO4andSrWO4. Physical Review B, 2005, 72, .	3.2	159
6	Optical properties and electronic structure of rock-salt ZnO under pressure. Applied Physics Letters, 2003, 83, 278-280.	3.3	158
7	Structural and vibrational study of Bi<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> under high pressure. Physical Review B, 2011, 84, .	3.2	138
8	Effect of aluminium doping on zinc oxide thin films grown by spray pyrolysis. Superlattices and Microstructures, 2006, 39, 185-192.	3.1	123
9	Lattice dynamics of Sb<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> High-pressure vibrational and optical study of Bi<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math> under pressure. Physical Review B, 2011, 84, .	3.2	108
10	Lattice dynamics of Sb<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2011, 84, .	3.2	100
11	Strong optical nonlinearities in gallium and indium selenides related to inter-valence-band transitions induced by light pulses. Physical Review B, 1997, 56, 4075-4084.	3.2	96
12	Determination of the high-pressure crystal structure ofBaWO4andPbWO4. Physical Review B, 2006, 73, .	3.2	95
13	Lattice dynamics study of scheelite tungstates under high pressure I.BaWO4. Physical Review B, 2006, 74, .	3.2	91
14	Phonon dispersion relations of zinc oxide: Inelastic neutron scattering and<i>ab initio</i>calculations. Physical Review B, 2010, 81, .	3.2	85
15	Effects of pressure on the local atomic structure of CaWO4 and YLiF4: mechanism of the scheelite-to-wolframite and scheelite-to-fergusonite transitions. Journal of Solid State Chemistry, 2004, 177, 1087-1097.	2.9	84
16	Combined Raman scattering and<i>ab initio</i> investigation of pressure-induced structural phase transitions in the scintillator<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZnWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></math>. Physical Review B, 2008, 78, .	3.2	83
17	Pressure–induced structural phase transitions in materials and earth sciences. Physica Status Solidi (B): Basic Research, 2009, 246, 9-31.	1.5	83
18	Zircon to monazite phase transition in CeVO<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:mrow></math>: X-ray diffraction and Raman-scattering measurements. Physical Review B, 2011, 84, .	3.2	83

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19	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO ₄ : Comparison of experimental and theoretical results. Physical Review B, 2011, 83, .	3.2	78
20	Post-spinel transformations and equation of state in ZnGa ₂ S ₄ : Determination at high pressure by <i>in situ</i> x-ray diffraction. Physical Review B, 2009, 79, .	3.2	77
21	High-pressure studies of topological insulators Bi ₂ Se ₃ , Bi ₂ Te ₃ , and Sb ₂ Te ₃ . Physica Status Solidi (B): Basic Research, 2013, 250, 669-676.	1.5	77
22	Experimental and theoretical study of band structure of InSe and In _{1-x} Ga _x Se (x<0.2) under high pressure: Direct to indirect crossovers. Physical Review B, 2001, 63, .	3.2	73
23	Structural, Vibrational, and Electronic Study of Sb ₂ S ₃ at High Pressure. Journal of Physical Chemistry C, 2016, 120, 10547-10558.	3.1	73
24	Structural and vibrational study of cubic Sb ₂ O ₃ under high pressure. Physical Review B, 2012, 85, .	3.2	71
25	Experimental and theoretical investigations on the polymorphism and metastability of BiPO ₄ . Dalton Transactions, 2013, 42, 14999.	3.3	70
26	Growth, characterization, and high-pressure optical studies of CuWO ₄ . High Pressure Research, 2008, 28, 565-570.	1.2	67
27	High-pressure structural phase transitions in CuWO ₄ . Physical Review B, 2010, 81, .	3.2	67
28	Crystal symmetry and pressure effects on the valence band structure of ³ InSe and ¹ μ-GaSe: Transport measurements and electronic structure calculations. Physical Review B, 2005, 71, .	3.2	65
29	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO ₄ . Physical Review B, 2012, 85, .	3.2	63
30	Synthesis, structure and luminescence of Er ³⁺ -doped Y ₃ Ga ₅ O ₁₂ nano-garnets. Journal of Materials Chemistry, 2012, 22, 13788.	6.7	62
31	Oscillations studied with the smartphone ambient light sensor. European Journal of Physics, 2013, 34, 1349-1354.	0.6	62
32	Lattice dynamics of wurtzite and rocksalt AlN under high pressure: Effect of compression on the crystal anisotropy of wurtzite-type semiconductors. Physical Review B, 2008, 77, .	3.2	61
33	Lattice dynamics of YVO ₄ at high pressures. Physical Review B, 2010, 81, .	3.2	61
34	Isostructural Second-Order Phase Transition of ² -Bi ₂ O ₃ at High Pressures: An Experimental and Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 23189-23201.	3.1	59
35	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa ₂ Se ₄ and defect-chalcopyrite CdGa ₂ S ₄ . Journal of Applied Physics, 2008, 104, .	2.5	58
36	High-pressure lattice dynamical study of bulk and nanocrystalline In ₂ O ₃ . Journal of Applied Physics, 2012, 112, .	2.5	55

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37	Effect of Pressure on Phonon Modes in Wurtzite Zinc Oxide. High Pressure Research, 2002, 22, 299-304.	1.2	54
38	On the ferroelastic nature of the scheelite-to-fergusonite phase transition in orthotungstates and orthomolybdates. Materials Research Bulletin, 2009, 44, 807-811.	5.2	54
39	High-pressure study of ScVO ₄ by Raman scattering and <i>ab initio</i> calculations. Physical Review B, 2011, 83, .	3.2	54
40	High-pressure effects on the optical-absorption edge of CdIn ₂ S ₄ , MgIn ₂ S ₄ , and MnIn ₂ S ₄ thiospinels. Journal of Applied Physics, 2008, 103, .	2.5	51
41	Lattice dynamics study of scheelite tungstates under high pressure II. PbWO ₄ . Physical Review B, 2006, 74, .	3.2	50
42	ZnO-based spinels grown by electrodeposition. Journal of Physics and Chemistry of Solids, 2012, 73, 1111-1115.	4.0	48
43	Lattice dynamics of ZnAl ₂ O ₄ and ZnGa ₂ O ₄ under high pressure. Annalen Der Physik, 2011, 523, 157-167.	2.4	47
44	Theoretical and experimental study of the structural stability of TbPO ₄ high pressures. Physical Review B, 2010, 81, .	3.2	46
45	High-pressure optical and vibrational properties of CdGa ₂ Se ₄ : Order-disorder processes in adamantine compounds. Journal of Applied Physics, 2012, 111, .	2.5	46
46	Experimental and Theoretical Study of Bi ₂ O ₂ Se Under Compression. Journal of Physical Chemistry C, 2018, 122, 8853-8867.	3.1	46
47	Experimental and Theoretical Studies on BiIn_2Se_3 at High Pressure. Inorganic Chemistry, 2018, 57, 8241-8252.	4.0	46
48	High-pressure polymorphs of TbVO ₄ : A Raman and <i>ab initio</i> study. Journal of Alloys and Compounds, 2013, 577, 327-335.	5.5	45
49	Synthesis of a Novel Zeolite through a Pressure-Induced Reconstructive Phase Transition Process. Angewandte Chemie - International Edition, 2013, 52, 10458-10462.	13.8	45
50	Optical properties of wurtzite and rock-salt ZnO under pressure. Microelectronics Journal, 2005, 36, 928-932.	2.0	44
51	Crystal Chemistry of CdIn ₂ S ₄ , MgIn ₂ S ₄ , and MnIn ₂ S ₄ Thiospinels under High Pressure. Journal of Physical Chemistry C, 2012, 116, 14078-14087.	3.1	44
52	Photoluminescence of thermal-annealed nanocolumnar ZnO thin films grown by electrodeposition. Applied Surface Science, 2006, 252, 2826-2831.	6.1	43
53	Structural study of Bi_2O_3 under pressure. Journal of Physics Condensed Matter, 2013, 25, 475402.	1.8	42
54	InN Thin Film Lattice Dynamics by Grazing Incidence Inelastic X-Ray Scattering. Physical Review Letters, 2011, 106, 205501.	7.8	41

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55	Effect of thermal annealing on ZnO:Al thin films grown by spray pyrolysis. Superlattices and Microstructures, 2007, 42, 134-139.	3.1	38
56	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, .	2.5	37
57	Structural, Vibrational, and Electronic Study of $\hat{1}\pm$ -As ₂ Te ₃ under Compression. Journal of Physical Chemistry C, 2016, 120, 19340-19352.	3.1	37
58	Band structure of indium selenide investigated by intrinsic photoluminescence under high pressure. Physical Review B, 2004, 70, .	3.2	35
59	Crystal stability and pressure-induced phase transitions in scheelite AWO ₄ (A = Ca, Sr, Ba, Pb, Eu) binary oxides. II: Towards a systematic understanding. Physica Status Solidi (B): Basic Research, 2007, 244, 295-302.	1.5	34
60	Chemical pressure effects on the spectroscopic properties of Nd ³⁺ -doped gallium nano-garnets. Optical Materials Express, 2015, 5, 1661.	3.0	34
61	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. Journal of Physical Chemistry C, 2014, 118, 13177-13185.	3.1	33
62	Structural and elastic properties of defect chalcopyrite HgGa ₂ S ₄ under high pressure. Journal of Alloys and Compounds, 2014, 583, 70-78.	5.5	32
63	Crystal stability and pressure-induced phase transitions in scheelite AWO ₄ (A = Ca, Sr, Ba, Pb, Eu) binary oxides. I: A review of recentab initio calculations, ADXRD, XANES, and Raman studies. Physica Status Solidi (B): Basic Research, 2007, 244, 325-330.	1.5	31
64	Characterization and Decomposition of the Natural van der Waals SnSb ₂ Te ₄ under Compression. Inorganic Chemistry, 2020, 59, 9900-9918.	4.0	31
65	Effect of pressure on crystal-field transitions of Nd-dopedYLIF ₄ . Physical Review B, 2001, 64, .	3.2	29
66	Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi ₂ Se ₃ . Physical Review B, 2012, 85, .	3.2	29
67	Crystal-field transitions of Nd ³⁺ in the topological insulator Bi ₂ Se ₃ . Physical Review B, 2012, 85, .	3.2	29
68	Effect of pressure on crystal-field transitions of Nd-dopedYVO ₄ . Physical Review B, 2004, 69, .	3.2	28
69	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa ₂ Se ₄ . Journal of Applied Physics, 2013, 113, .	2.5	28
70	Structural and electrical study of the topological insulator SnBi ₂ Te ₄ at high pressure. Journal of Alloys and Compounds, 2016, 685, 962-970.	5.5	28
71	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.	1.8	28
72	Effect of isotopic mass on the photoluminescence spectra of zinc oxide. Solid State Communications, 2003, 128, 35-39.	1.9	27

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73	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. <i>Physical Review B</i> , 2010, 81, .	3.2	27
74	<i>Pbc</i> -Type In_2O_3 : The High-Pressure Post-Corundum phase at Room Temperature.. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20545-20552.	3.1	27
75	Specific features of the electronic structure of III-VI layered semiconductors: recent results on structural and optical measurements under pressure and electronic structure calculations. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 235, 267-276.	1.5	26
76	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.	4.0	26
77	Raman scattering study of pressure-induced phase transitions in $\text{AlB}_2\text{C}_4\text{VI}$ defect chalcopyrites and spinels. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 1603-1607.	4.0	25
78	Structural, vibrational, and electrical study of compressed BiTeBr . <i>Physical Review B</i> , 2016, 93, .	3.2	25
79	Theoretical and experimental study of CaWO_4 and SrWO_4 under pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 2164-2171.	4.0	24
80	Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated $\text{Y}_2\text{O}_3:\text{Eu}^{3+}$ phosphors synthesized by a complex based precursor solution method. <i>Current Applied Physics</i> , 2014, 14, 72-81.	2.4	24
81	High-pressure lattice-dynamics of NdVO_4 . <i>Journal of Physics and Chemistry of Solids</i> , 2017, 100, 126-133.	4.0	24
82	Investigation on the Luminescence Properties of InMO_4 ($\text{M} = \text{V}^{5+}$, Tj) $\text{ETQq0 0 0 rgBT /Overlock 10 Tf 50 387}$ Earth Ions. <i>ACS Omega</i> , 2020, 5, 2148-2158.	3.5	24
83	Anomalous Raman modes in tellurides. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	24
84	Raman scattering study of pressure-induced phase transitions in MIn_2S_4 spinels. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 6801-6813.	1.8	23
85	New high-pressure phase and equation of state of $\text{Ce}_2\text{Zr}_2\text{O}_8$. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	23
86	Vibrational study of HgGa_2S_4 under high pressure. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	23
87	Phase Behavior of Ag_2CrO_4 under Compression: Structural, Vibrational, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12239-12248.	3.1	23
88	Synthesis and High-Pressure Study of Corundum-Type In_2O_3 . <i>Journal of Physical Chemistry C</i> , 2015, 119, 29076-29087.	3.1	23
89	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type $\text{Sr}_2\text{ZnGe}_2\text{O}_7$ at High Pressure and Delineation of a High-Pressure Monoclinic Phase. <i>Inorganic Chemistry</i> , 2015, 54, 6594-6605.	4.0	23
90	Precursor effects of the Rhombohedral-to-Cubic Phase Transition in Indium Selenide. <i>High Pressure Research</i> , 2002, 22, 261-266.	1.2	22

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91	Raman scattering study of bulk and nanocrystalline PbMoO ₄ at high pressures. Journal of Applied Physics, 2012, 112, 103510.	2.5	22
92	Room-temperature vibrational properties of multiferroic MnWO ₄ under quasi-hydrostatic compression up to 39 GPa. Journal of Applied Physics, 2014, 115, 043510.	2.5	22
93	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO ₃ (A = Al, Sc, Fe, and In). Journal of Physical Chemistry C, 2014, 118, 4354-4361.	3.1	22
94	Lattice Dynamics Study of HgGa ₂ Se ₄ at High Pressures. Journal of Physical Chemistry C, 2013, 117, 15773-15781.	3.1	21
95	Pressure effects on the vibrational properties of Bi ₂ O ₃ : an experimental and theoretical study. Journal of Physics Condensed Matter, 2014, 26, 225401.	1.8	21
96	Pressure-Induced Phase Transitions in Sesquioxides. Crystals, 2019, 9, 630.	2.2	21
97	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.	3.1	21
98	Direct to Indirect Crossover in III-VI Layered Compounds and Alloys under Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 33-38.	1.5	20
99	High-pressure structural and elastic properties of Ti ₂ O ₃ . Journal of Applied Physics, 2014, 116, .	2.5	20
100	The study of two-dimensional oscillations using a smartphone acceleration sensor: example of Lissajous curves. Physics Education, 2015, 50, 580-586.	0.5	20
101	Metastable structural transformations and pressure-induced amorphization in natural (Mg,Fe) ₂ SiO ₄ olivine under static compression: A Raman spectroscopic study. American Mineralogist, 2016, 101, 1642-1650.	1.9	20
102	Orpiment under compression: metavalent bonding at high pressure. Physical Chemistry Chemical Physics, 2020, 22, 3352-3369.	2.8	20
103	Effect of pressure on the Raman anomaly of zinc-blende CuBr and Raman spectra of high-pressure phases. Physical Review B, 2001, 64, .	3.2	19
104	Electronic and elastic properties of yttrium gallium garnet under pressure from ab initio studies. Journal of Applied Physics, 2013, 113, 183505.	2.5	19
105	Pressure-induced amorphization of YVO ₄ :Eu ³⁺ nanoboxes. Nanotechnology, 2016, 27, 025701.	2.6	19
106	Structural and vibrational study of Zn ₂ high-pressure experiments and density-functional theory. Physical Review B, 2021, 103, .	3.2	19
107	Optical absorption in GaTe under high pressure. Physical Review B, 1999, 60, 8871-8877.	3.2	18
108	Pressure dependence of photoluminescence spectra of self-assembled InAs/GaAs quantum dots. Physica Status Solidi (B): Basic Research, 2003, 235, 496-500.	1.5	18

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109	Crystal structure of HgGa ₂ Se ₄ under compression. Materials Research Bulletin, 2013, 48, 2128-2133.	5.2	18
110	Spray pyrolysis synthesis and characterization of Mg _{1-x} Sr _x MoO ₄ heterostructure with white light emission. Journal of Alloys and Compounds, 2020, 813, 152235.	5.5	18
111	Neutron irradiation defects in gallium sulfide: Optical absorption measurements. Journal of Applied Physics, 1997, 81, 6651-6656.	2.5	17
112	The phonon dispersion of wurtzite-ZnO revisited. Physica Status Solidi (B): Basic Research, 2007, 244, 1478-1482.	1.5	17
113	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa ₂ Se ₄ . Journal of Applied Physics, 2013, 113, 233501.	2.5	17
114	High-pressure lattice dynamics in wurtzite and rocksalt indium nitride investigated by means of Raman spectroscopy. Physical Review B, 2013, 88, .	3.2	17
115	Enhanced Hydrothermal Resistance of Yâ€œ _{scp} TZP</sc> Ceramics Through Colloidal Processing. Journal of the American Ceramic Society, 2013, 96, 1070-1076.	3.8	17
116	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. Physical Chemistry Chemical Physics, 2015, 17, 9454-9464.	2.8	17
117	Transport measurements in InSe under high pressure and high temperature: shallow-to-deep donor transformation of Sn related donor impurities. Semiconductor Science and Technology, 2003, 18, 241-246.	2.0	16
118	High-pressure Raman scattering in wurtzite indium nitride. Applied Physics Letters, 2011, 99, .	3.3	16
119	$B \frac{\partial^2}{\partial x^2} \frac{\partial}{\partial t} \underbrace{\text{compression: Optical and elastic properties and electron density topology analysis. Physical Review B, 2019, 100, 081101.}}$	3.2	16
120	Elastic and thermodynamic properties of $\hat{1}\pm$ -Bi ₂ O ₃ at high pressures: Study of mechanical and dynamical stability. Journal of Physics and Chemistry of Solids, 2019, 124, 111-120.	4.0	16
121	Effect of N isotopic mass on the photoluminescence and cathodoluminescence spectra of gallium nitride. European Physical Journal B, 2004, 40, 453-458.	1.5	15
122	Effect of annealing on Zn _{1-x} CoxO thin films prepared by electrodeposition. Microelectronics Journal, 2009, 40, 268-271.	2.0	15
123	Lattice dynamics study of cubic Tb ₂ O ₃ . Journal of Raman Spectroscopy, 2018, 49, 2021-2027.	2.5	15
124	Structural Characterization of Auophilic Gold(I) Iodide under High Pressure. Inorganic Chemistry, 2019, 58, 10665-10670.	4.0	15
125	Performance of graphene oxide-modified electrodeposited ZnO/Cu ₂ O heterojunction solar cells. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2019, 58, 263-273.	1.9	15
126	Structural and optical high-pressure study of spinel-type MnIn ₂ S ₄ . Physica Status Solidi (B): Basic Research, 2007, 244, 229-233.	1.5	14

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127	Negative pressures in CaWO ₄ nanocrystals. Journal of Applied Physics, 2009, 105, .	2.5	14
128	Analysis of the upconversion emission of yttrium orthoaluminate nano-perovskite co-doped with Er ³⁺ /Yb ³⁺ ions for thermal sensing applications. Journal of Luminescence, 2018, 202, 316-321.	3.1	14
129	Experimental and Theoretical Study of SbPO ₄ under Compression. Inorganic Chemistry, 2020, 59, 287-307.	4.0	14
130	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO ₃) ₂ . Journal of Physical Chemistry C, 2021, 125, 17448-17461.	3.1	14
131	Pressure-driven configurational crossover between 4f ⁷ and 4f ⁶ 5d ¹ States – Giant enhancement of narrow Eu ²⁺ UV-Emission lines in SrB ₄ O ₇ for luminescence manometry. Acta Materialia, 2022, 231, 117886.	7.9	14
132	Pressure dependence of the refractive index in InSe. Semiconductor Science and Technology, 2000, 15, 806-812.	2.0	13
133	Theoretical study of the YLiF ₄ phase transitions under pressure. Physical Review B, 2006, 73, .	3.2	13
134	HgGa ₂ Se ₄ under high pressure: An optical absorption study. Physica Status Solidi (B): Basic Research, 2015, 252, 2043-2051.	1.5	13
135	Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. Journal of Physical Chemistry C, 2017, 121, 15353-15367.	3.1	13
136	Electronic structure of wurtzite and rocksalt InN investigated by optical absorption under hydrostatic pressure. Applied Physics Letters, 2010, 96, .	3.3	12
137	Thermally activated cation ordering in ZnGa ₂ Se ₄ single crystals studied by Raman scattering, optical absorption, and <i>ab initio</i> calculations. Journal of Physics Condensed Matter, 2013, 25, 165802.	1.8	12
138	Order–disorder processes in adamantine ternary ordered–vacancy compounds. Physica Status Solidi (B): Basic Research, 2013, 250, 1496-1504.	1.5	12
139	High-pressure characterization of multifunctional CrVO ₄ . Journal of Physics Condensed Matter, 2020, 32, 385403.	1.8	12
140	Effect of pressure on the Raman scattering of wurtzite AlN. Physica Status Solidi (B): Basic Research, 2007, 244, 42-47.	1.5	11
141	High-pressure structural and lattice dynamical study of HgWO_4 . Physical Review B, 2010, 82, .	3.2	11
142	Structural and vibrational properties of corundum-type In ₂ O ₃ nanocrystals under compression. Nanotechnology, 2017, 28, 205701.	2.6	11
143	Raman measurements on nanocolumnar ZnO crystals. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1602-1605.	1.8	10
144	Transport measurements under pressure in III–IV layered semiconductors. Physica Status Solidi (B): Basic Research, 2007, 244, 162-168.	1.5	10

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145	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. Physical Review B, 2014, 89, .	3.2	9
146	High pressure phase transitions in NdVO ₄ . AIP Conference Proceedings, 2015, , .	0.4	9
147	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. Physical Review B, 2022, 105, .	3.2	9
148	Zn _{1-x} Mg _x O thin films deposited by spray pyrolysis. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2306-2310.	0.8	8
149	High-pressure optical absorption in InN: Electron density dependence in the wurtzite phase and reevaluation of the indirect band gap of rocksalt InN. Physical Review B, 2012, 86, .	3.2	8
150	Structural and Vibrational Properties of CdAl ₂ S ₄ under High Pressure: Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2014, 118, 15363-15374.	3.1	8
151	InBO ₃ and ScBO ₃ at high pressures: An ab initio study of elastic and thermodynamic properties. Journal of Physics and Chemistry of Solids, 2016, 98, 198-208.	4.0	8
152	Vibrational and elastic properties of As ₄ O ₆ and As ₄ O ₆ ·2He at high pressures: Study of dynamical and mechanical stability. Journal of Applied Physics, 2016, 120, .	2.5	8
153	Structural, vibrational and electronic properties of $\pm\text{Ga}_2\text{S}_3$ under compression. Physical Chemistry Chemical Physics, 2021, 23, 6841-6862.	2.8	8
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