

Francisco J Manjn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176
papers

5,683
citations

41
h-index

67
g-index

188
ext. papers

6,279
ext. citations

3.4
avg, IF

5.38
L-index

#	Paper	IF	Citations
176	Pressure-driven configurational crossover between 4f7 and 4f65d1 States [Giant enhancement of narrow Eu2+ UV-Emission lines in SrB4O7 for luminescence manometry. <i>Acta Materialia</i> , 2022 , 231, 117886	8.4	1
175	Combined Experimental and Theoretical Studies: Lattice-Dynamical Studies at High Pressures with the Help of Ab Initio Calculations. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1283	2.4	2
174	Pressure-induced order-disorder transitions in BnS: an experimental and theoretical study of structural and vibrational properties. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23625-23642	3.6	0
173	GdBO3 and YBO3 crystals under compression. <i>Journal of Alloys and Compounds</i> , 2021 , 866, 158962	5.7	0
172	Experimental and theoretical study of dense YBO3 and the influence of non-hydrostaticity. <i>Journal of Alloys and Compounds</i> , 2021 , 850, 156562	5.7	5
171	Structural, vibrational and electronic properties of HfGaS under compression. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 6841-6862	3.6	3
170	Structural and vibrational study of Zn(IO3)2 combining high-pressure experiments and density-functional theory. <i>Physical Review B</i> , 2021 , 103,	3.3	5
169	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO3)2. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17448-17461	3.8	0
168	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of Bi2O3. <i>Dalton Transactions</i> , 2021 , 50, 5493-5505	4.3	2
167	High-pressure characterization of multifunctional CrVO. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 385403	1.8	7
166	Characterization and Decomposition of the Natural van der Waals SnSbTe under Compression. <i>Inorganic Chemistry</i> , 2020 , 59, 9900-9918	5.1	11
165	Structural and Lattice-Dynamical Properties of TbO under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. <i>Inorganic Chemistry</i> , 2020 , 59, 9648-9666	5.1	9
164	Investigation on the Luminescence Properties of InMO (M = V, Nb, Ta) Crystals Doped with Tb or Yb Rare Earth Ions. <i>ACS Omega</i> , 2020 , 5, 2148-2158	3.9	13
163	Borates or phosphates? That is the question. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020 , 76, 197-205	1.7	2
162	Orpiment under compression: metavalent bonding at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3352-3369	3.6	14
161	Experimental and Theoretical Study of SbPO under Compression. <i>Inorganic Chemistry</i> , 2020 , 59, 287-307	5.1	9
160	High-Pressure Raman Study of Fe(IO3)3: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 21329-21337	3.8	10

159	Spray pyrolysis synthesis and characterization of Mg _{1-x} Sr _x MoO ₄ heterostructure with white light emission. <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152235	5.7	9
158	Vibrational properties of CdGa ₂ S ₄ at high pressure. <i>Journal of Applied Physics</i> , 2019 , 125, 115901	2.5	4
157	Structural Characterization of Auophilic Gold(I) Iodide under High Pressure. <i>Inorganic Chemistry</i> , 2019 , 58, 10665-10670	5.1	9
156	Performance of graphene oxide-modified electrodeposited ZnO/Cu ₂ O heterojunction solar cells. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2019 , 58, 263-273	1.9	9
155	Pressure-Induced Phase Transitions in Sesquioxides. <i>Crystals</i> , 2019 , 9, 630	2.3	13
154	Elastic and thermodynamic properties of Bi ₂ O ₃ at high pressures: Study of mechanical and dynamical stability. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 124, 111-120	3.9	8
153	Experimental and Theoretical Study of Bi ₂ O ₂ Se Under Compression. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 8853-8867	3.8	32
152	High-pressure structural and vibrational properties of monazite-type BiPO, LaPO, CePO, and PrPO. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 065401	1.8	15
151	Analysis of the upconversion emission of yttrium orthoaluminate nano-perovskite co-doped with Er ³⁺ /Yb ³⁺ ions for thermal sensing applications. <i>Journal of Luminescence</i> , 2018 , 202, 316-321	3.8	13
150	Lattice dynamics study of cubic Tb ₂ O ₃ . <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 2021-2027	2.3	10
149	Experimental and Theoretical Studies on HnSe at High Pressure. <i>Inorganic Chemistry</i> , 2018 , 57, 8241-8253	5.1	22
148	Structural and vibrational properties of corundum-type InO nanocrystals under compression. <i>Nanotechnology</i> , 2017 , 28, 205701	3.4	8
147	Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15353-15367	3.8	8
146	High-pressure lattice-dynamics of NdVO ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 100, 126-133	3.9	20
145	Study of the orpiment and anorpiment phases of As ₂ S ₃ under pressure. <i>Journal of Physics: Conference Series</i> , 2017 , 950, 042018	0.3	3
144	Structural, vibrational, and electrical study of compressed BiTeBr. <i>Physical Review B</i> , 2016 , 93,	3.3	19
143	Ordered helium trapping and bonding in compressed arsenolite: Synthesis of As ₄ O ₆ ⊂He. <i>Physical Review B</i> , 2016 , 93,	3.3	23
142	Bi ₂ O ₃ under compression: Optical and elastic properties and electron density topology analysis. <i>Physical Review B</i> , 2016 , 93,	3.3	15

141	Metastable structural transformations and pressure-induced amorphization in natural (Mg,Fe) ₂ SiO ₄ olivine under static compression: a raman spectroscopic study. <i>American Mineralogist</i> , 2016 , 101, 1642-1650	2.9	17
140	Arsenolite: a quasi-hydrostatic solid pressure-transmitting medium. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 475403	1.8	3
139	Structural and optical properties of Ta ₂ O ₅ :Eu ³⁺ : Mg ²⁺ or Ca ²⁺ phosphor prepared by molten salt method 2016 ,		1
138	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	5.7	19
137	Pressure-induced amorphization of YVO ₄ :Eu ³⁺ nanoboxes. <i>Nanotechnology</i> , 2016 , 27, 025701	3.4	14
136	InBO ₃ and ScBO ₃ at high pressures: An ab initio study of elastic and thermodynamic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 98, 198-208	3.9	6
135	Vibrational and elastic properties of As ₄ O ₆ and As ₄ O ₆ ∩He at high pressures: Study of dynamical and mechanical stability. <i>Journal of Applied Physics</i> , 2016 , 120, 155901	2.5	7
134	Structural, Vibrational, and Electronic Study of Sb ₂ S ₃ at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10547-10558	3.8	52
133	Structural, Vibrational, and Electronic Study of HAs ₂ Te ₃ under Compression. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19340-19352	3.8	28
132	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type Sr ₂ ZnGe ₂ O ₇ at High Pressure and Delineation of a High-Pressure Monoclinic Phase. <i>Inorganic Chemistry</i> , 2015 , 54, 6594-605	5.1	17
131	Crystal Structure of Sihalite MgAlBO ₄ under High Pressure. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6777-6784	3.8	4
130	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9454-64	3.6	12
129	Chemical pressure effects on the spectroscopic properties of Nd ³⁺ -doped gallium nano-garnets. <i>Optical Materials Express</i> , 2015 , 5, 1661	2.6	26
128	The study of two-dimensional oscillations using a smartphone acceleration sensor: example of Lissajous curves. <i>Physics Education</i> , 2015 , 50, 580-586	0.8	18
127	High pressure phase transitions in NdVO ₄ 2015 ,		8
126	HgGa ₂ Se ₄ under high pressure: An optical absorption study. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2043-2051	1.3	9
125	Synthesis and High-Pressure Study of Corundum-Type In ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 29076-29087	3.8	16
124	Experimental and theoretical study of Hf ₂ (MoO ₄) ₃ under compression. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 465401	1.8	4

123	Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated Y2O3:Eu3+ phosphors synthesized by a complex based precursor solution method. <i>Current Applied Physics</i> , 2014 , 14, 72-81	2.6	21
122	Pbca-Type In2O3: The High-Pressure Post-Corundum phase at Room Temperature.. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20545-20552	3.8	24
121	Isostructural Second-Order Phase Transition of Bi2O3 at High Pressures: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23189-23201	3.8	50
120	Structural and Vibrational Properties of CdAl2S4 under High Pressure: Experimental and Theoretical Approach. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15363-15374	3.8	6
119	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO3 (A = Al, Sc, Fe, and In). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4354-4361	3.8	19
118	Pressure effects on the vibrational properties of Bi(2)O(3): an experimental and theoretical study. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 225401	1.8	17
117	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13177-13185	3.8	30
116	Effect of pressure on La2(WO4)3 with a modulated scheelite-type structure. <i>Physical Review B</i> , 2014 , 89,	3.3	5
115	High-pressure structural and elastic properties of Ti2O3. <i>Journal of Applied Physics</i> , 2014 , 116, 133521	2.5	15
114	Room-temperature vibrational properties of multiferroic MnWO4 under quasi-hydrostatic compression up to 39 GPa. <i>Journal of Applied Physics</i> , 2014 , 115, 043510	2.5	19
113	Structural and Vibrational Study of Pseudocubic CdIn2Se4 under Compression. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26987-26999	3.8	7
112	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 70-78	5.7	25
111	(AB_2S_4) Ordered-Vacancy Compounds at High Pressures. <i>Springer Series in Materials Science</i> , 2014 , 133-161	0.9	2
110	(AB_2Se_4) Ordered-Vacancy Compounds at High Pressures. <i>Springer Series in Materials Science</i> , 2014 , 163-184	0.9	3
109	Lattice Dynamics Study of HgGa2Se4 at High Pressures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15773-15781	3.85781	19
108	Experimental and theoretical investigations on the polymorphism and metastability of BiPO4. <i>Dalton Transactions</i> , 2013 , 42, 14999-5015	4.3	56
107	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. <i>Journal of Applied Physics</i> , 2013 , 114, 233507	2.5	25
106	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. <i>Journal of Applied Physics</i> , 2013 , 113, 233501	2.5	14

105	Vibrational study of HgGa ₂ Se ₄ under high pressure. <i>Journal of Applied Physics</i> , 2013 , 113, 093512	2.5	18
104	High-pressure lattice dynamics in wurtzite and rocksalt indium nitride investigated by means of Raman spectroscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	15
103	Thermally activated cation ordering in ZnGa ₂ Se ₄ single crystals studied by Raman scattering, optical absorption, and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 165802	1.8	8
102	Structural study of Bi ₂ O ₃ under pressure. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 475402	1.8	27
101	Crystal structure of HgGa ₂ Se ₄ under compression. <i>Materials Research Bulletin</i> , 2013 , 48, 2128-2133	5.1	17
100	High-pressure polymorphs of TbVO ₄ : A Raman and ab initio study. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 327-335	5.7	39
99	Enhanced Hydrothermal Resistance of Y-TZP Ceramics Through Colloidal Processing. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 1070-1076	3.8	14
98	Order-disorder processes in adamantane ternary ordered-vacancy compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 1496-1504	1.3	10
97	Electronic and elastic properties of yttrium gallium garnet under pressure from ab initio studies. <i>Journal of Applied Physics</i> , 2013 , 113, 183505	2.5	13
96	Phase Behavior of Ag ₂ CrO ₄ under Compression: Structural, Vibrational, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12239-12248	3.8	21
95	Synthesis of a novel zeolite through a pressure-induced reconstructive phase transition process. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10458-62	16.4	36
94	High-pressure studies of topological insulators Bi ₂ Se ₃ , Bi ₂ Te ₃ , and Sb ₂ Te ₃ . <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 669-676	1.3	61
93	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa ₂ Se ₄ . <i>Journal of Applied Physics</i> , 2013 , 113, 073510	2.5	24
92	Oscillations studied with the smartphone ambient light sensor. <i>European Journal of Physics</i> , 2013 , 34, 1349-1354	0.8	53
91	Synthesis of a Novel Zeolite through a Pressure-Induced Reconstructive Phase Transition Process. <i>Angewandte Chemie</i> , 2013 , 125, 10652-10656	3.6	13
90	ZnO-based spinels grown by electrodeposition. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1111-1115	3.15	34
89	High-pressure lattice dynamical study of bulk and nanocrystalline In ₂ O ₃ . <i>Journal of Applied Physics</i> , 2012 , 112, 123511	2.5	49
88	High-pressure optical absorption in InN: Electron density dependence in the wurtzite phase and reevaluation of the indirect band gap of rocksalt InN. <i>Physical Review B</i> , 2012 , 86,	3.3	6

87	Raman scattering study of bulk and nanocrystalline PbMoO ₄ at high pressures. <i>Journal of Applied Physics</i> , 2012 , 112, 103510	2.5	17
86	High-pressure optical and vibrational properties of CdGa ₂ Se ₄ : Order-disorder processes in adamantine compounds. <i>Journal of Applied Physics</i> , 2012 , 111, 013518	2.5	36
85	Synthesis, structure and luminescence of Er ³⁺ -doped Y ₃ Ga ₅ O ₁₂ nano-garnets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13788		49
84	Crystal Chemistry of CdIn ₂ S ₄ , MgIn ₂ S ₄ , and MnIn ₂ S ₄ Thiospinels under High Pressure. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14078-14087	3.8	38
83	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO ₄ . <i>Physical Review B</i> , 2012 , 85,	3.3	53
82	Structural and vibrational study of cubic Sb ₂ O ₃ under high pressure. <i>Physical Review B</i> , 2012 , 85,	3.3	57
81	New high-pressure phase and equation of state of Ce ₂ Zr ₂ O ₈ . <i>Journal of Applied Physics</i> , 2012 , 111, 053519		21
80	Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi ₂ Se ₃ under high pressure. <i>Physical Review B</i> , 2012 , 85,	3.3	27
79	Structural and vibrational study of Bi ₂ Se ₃ under high pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	115
78	Lattice dynamics of Sb ₂ Te ₃ at high pressures. <i>Physical Review B</i> , 2011 , 84,	3.3	81
77	High-pressure vibrational and optical study of Bi ₂ Te ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	83
76	Zircon to monazite phase transition in CeVO ₄ : X-ray diffraction and Raman-scattering measurements. <i>Physical Review B</i> , 2011 , 84,	3.3	71
75	InN thin film lattice dynamics by grazing incidence inelastic x-ray scattering. <i>Physical Review Letters</i> , 2011 , 106, 205501	7.4	38
74	High-pressure study of ScVO ₄ by Raman scattering and ab initio calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	49
73	Lattice dynamics of ZnAl ₂ O ₄ and ZnGa ₂ O ₄ under high pressure. <i>Annalen Der Physik</i> , 2011 , 523, 157-167	2.6	36
72	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO ₄ : Comparison with isomorphic compounds. <i>Physical Review B</i> , 2011 , 83,	3.3	61
71	High-pressure theoretical and experimental study of HgWO ₄ . <i>High Pressure Research</i> , 2011 , 31, 58-63	1.6	1
70	High-pressure Raman scattering in wurtzite indium nitride. <i>Applied Physics Letters</i> , 2011 , 99, 011908	3.4	15

69	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. <i>Physical Review B</i> , 2010 , 81,	3-3	24
68	High-pressure structural phase transitions in CuWO ₄ . <i>Physical Review B</i> , 2010 , 81,	3-3	60
67	Electronic structure of wurtzite and rocksalt InN investigated by optical absorption under hydrostatic pressure. <i>Applied Physics Letters</i> , 2010 , 96, 201903	3-4	12
66	High-pressure structural and lattice dynamical study of HgWO ₄ . <i>Physical Review B</i> , 2010 , 82,	3-3	11
65	Theoretical and experimental study of the structural stability of TbPO ₄ at high pressures. <i>Physical Review B</i> , 2010 , 81,	3-3	40
64	Phonon dispersion relations of zinc oxide: Inelastic neutron scattering and ab initio calculations. <i>Physical Review B</i> , 2010 , 81,	3-3	78
63	Lattice dynamics of YVO ₄ at high pressures. <i>Physical Review B</i> , 2010 , 81,	3-3	52
62	Zn _{1-x} Mg _x O thin films deposited by spray pyrolysis. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 2306-2310		7
61	Negative pressures in CaWO ₄ nanocrystals. <i>Journal of Applied Physics</i> , 2009 , 105, 094321	2-5	13
60	On the ferroelastic nature of the scheelite-to-fergusonite phase transition in orthotungstates and orthomolybdates. <i>Materials Research Bulletin</i> , 2009 , 44, 807-811	5-1	45
59	Pressure-induced structural phase transitions in materials and earth sciences. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 9-31	1-3	72
58	Effect of annealing on Zn _{1-x} CoxO thin films prepared by electrodeposition. <i>Microelectronics Journal</i> , 2009 , 40, 268-271	1-8	15
57	Post-spinel transformations and equation of state in ZnGa ₂ O ₄ : Determination at high pressure by in situ x-ray diffraction. <i>Physical Review B</i> , 2009 , 79,	3-3	64
56	Growth, characterization, and high-pressure optical studies of CuWO ₄ . <i>High Pressure Research</i> , 2008 , 28, 565-570	1-6	56
55	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 . <i>Journal of Applied Physics</i> , 2008 , 104, 063524	2-5	48
54	Combined Raman scattering and ab initio investigation of pressure-induced structural phase transitions in the scintillator ZnWO ₄ . <i>Physical Review B</i> , 2008 , 78,	3-3	80
53	High-pressure effects on the optical-absorption edge of CdIn ₂ S ₄ , MgIn ₂ S ₄ , and MnIn ₂ S ₄ thiospinels. <i>Journal of Applied Physics</i> , 2008 , 103, 063710	2-5	48
52	Lattice dynamics of wurtzite and rocksalt AlN under high pressure: Effect of compression on the crystal anisotropy of wurtzite-type semiconductors. <i>Physical Review B</i> , 2008 , 77,	3-3	47

51	Cathodic electrodeposition of ZnCoO thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008 , 5, 3358-3360		5
50	Pressure effects on the structural and electronic properties of ABX ₄ scintillating crystals. <i>Progress in Materials Science</i> , 2008 , 53, 711-773	42.2	272
49	Transport measurements under pressure in IIIIV layered semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 162-168	1.3	10
48	Effect of pressure on the Raman scattering of wurtzite AlN. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 42-47	1.3	11
47	Structural and optical high-pressure study of spinel-type MnIn ₂ S ₄ . <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 229-233	1.3	12
46	Crystal stability and pressure-induced phase transitions in scheelite AWO ₄ (A = Ca, Sr, Ba, Pb, Eu) binary oxides. I: A review of recent ab initio calculations, ADXRD, XANES, and Raman studies. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 325-330	1.3	28
45	Crystal stability and pressure-induced phase transitions in scheelite AWO ₄ (A = Ca, Sr, Ba, Pb, Eu) binary oxides. II: Towards a systematic understanding. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 295-302	1.3	30
44	The phonon dispersion of wurtzite-ZnO revisited. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 1478-1482	1.3	16
43	Effect of thermal annealing on ZnO:Al thin films grown by spray pyrolysis. <i>Superlattices and Microstructures</i> , 2007 , 42, 134-139	2.8	35
42	Effect of aluminium doping on zinc oxide thin films grown by spray pyrolysis. <i>Superlattices and Microstructures</i> , 2006 , 39, 185-192	2.8	111
41	Lattice dynamics study of scheelite tungstates under high pressure I. BaWO ₄ . <i>Physical Review B</i> , 2006 , 74,	3.3	85
40	Theoretical study of the YLiF ₄ phase transitions under pressure. <i>Physical Review B</i> , 2006 , 73,	3.3	13
39	Lattice dynamics study of scheelite tungstates under high pressure II. PbWO ₄ . <i>Physical Review B</i> , 2006 , 74,	3.3	47
38	Determination of the high-pressure crystal structure of BaWO ₄ and PbWO ₄ . <i>Physical Review B</i> , 2006 , 73,	3.3	88
37	Photoluminescence of thermal-annealed nanocolumnar ZnO thin films grown by electrodeposition. <i>Applied Surface Science</i> , 2006 , 252, 2826-2831	6.7	41
36	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	3.9	24
35	Theoretical study of the scheelite-to-fergusonite phase transition in YLiF ₄ under pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 2077-2082	3.9	3
34	Crystal symmetry and pressure effects on the valence band structure of α -InSe and β -GaSe: Transport measurements and electronic structure calculations. <i>Physical Review B</i> , 2005 , 71,	3.3	54

33	Silent Raman modes in zinc oxide and related nitrides. <i>Journal of Applied Physics</i> , 2005 , 97, 053516	2.5	318
32	Optical properties of wurtzite and rock-salt ZnO under pressure. <i>Microelectronics Journal</i> , 2005 , 36, 928-932	3.2	37
31	Effect of isotopic mass on the photoluminescence spectra of zinc sulfide. <i>Solid State Communications</i> , 2005 , 133, 253-258	1.6	5
30	Raman measurements on nanocolumnar ZnO crystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 1602-1605	1.6	9
29	High-pressure structural study of the scheelite tungstates CaWO ₄ and SrWO ₄ . <i>Physical Review B</i> , 2005 , 72,	3.3	152
28	Band structure of indium selenide investigated by intrinsic photoluminescence under high pressure. <i>Physical Review B</i> , 2004 , 70,	3.3	28
27	Effect of pressure on crystal-field transitions of Nd-doped YVO ₄ . <i>Physical Review B</i> , 2004 , 69,	3.3	28
26	Effect of N isotopic mass on the photoluminescence and cathodoluminescence spectra of gallium nitride. <i>European Physical Journal B</i> , 2004 , 40, 453-458	1.2	14
25	Pressure dependence of the lattice dynamics of ZnO: An ab initio approach. <i>Physical Review B</i> , 2004 , 69,	3.3	355
24	Effects of pressure on the local atomic structure of CaWO ₄ and YLiF ₄ : mechanism of the scheelite-to-wolframite and scheelite-to-fergusonite transitions. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 1087-1097	3.3	78
23	Effect of isotopic mass on the photoluminescence spectra of zinc oxide. <i>Solid State Communications</i> , 2003 , 128, 35-39	1.6	24
22	Specific features of the electronic structure of III-V 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	1.3	17
21	Pressure dependence of photoluminescence spectra of self-assembled InAs/GaAs quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 496-500	1.3	18
20	Raman scattering study of pressure-induced phase transitions in AIIIB ₂ IIIC ₄ VI defect chalcopyrites and spinels. <i>Journal of Physics and Chemistry of Solids</i> , 2003 , 64, 1603-1607	3.9	24
19	Dispersive phonon linewidths: the E ₂ phonons of ZnO. <i>Physical Review Letters</i> , 2003 , 90, 055510	7.4	150
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16	Raman-active modes of porous gallium phosphide at high pressures and low temperatures. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 13879-13887	1.8	5

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14	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	19
13	Effect of Pressure on Phonon Modes in Wurtzite Zinc Oxide. <i>High Pressure Research</i> , 2002 , 22, 299-304	1.6	51
12	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,	3.3	16
11	Experimental and theoretical study of band structure of InSe and $In_{1-x}Ga_xSe$ (x. <i>Physical Review B</i> , 2001 , 63,	3.3	64
10	Effect of pressure on crystal-field transitions of Nd-doped $YLiF_4$. <i>Physical Review B</i> , 2001 , 64,	3.3	27
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1	Anomalous Raman modes in tellurides. <i>Journal of Materials Chemistry C</i> ,	7.1	5