Francisco J Manjn

List of Publications by Citations

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 dependence of the lattice dynamics of ZnO: An ab initio approach. *Physical Review B*, **2004**, 69,	3.3	355
175	Silent Raman modes in zinc oxide and related nitrides. *Journal of Applied Physics*, **2005**, 97, 053516	2.5	318
174	Pressure effects on the structural and electronic properties of ABX4 scintillating crystals. *Progress in Materials Science*, **2008**, 53, 711-773	42.2	272
173	High-pressure structural study of the scheelite tungstates CaWO4 and SrWO4. *Physical Review B*, **2005**, 72,	3.3	152
172	Dispersive phonon linewidths: the E2 phonons of ZnO. *Physical Review Letters*, **2003**, 90, 055510	7.4	150
171	Optical properties and electronic structure of rock-salt ZnO under pressure. *Applied Physics Letters*, **2003**, 83, 278-280	3.4	138
170	Structural and vibrational study of Bi2Se3 under high pressure. *Physical Review B*, **2011**, 84,	3.3	115
169	Effect of aluminium doping on zinc oxide thin films grown by spray pyrolysis. *Superlattices and Microstructures*, **2006**, 39, 185-192	2.8	111
168	Determination of the high-pressure crystal structure of BaWO4 and PbWO4. *Physical Review B*, **2006**, 73,	3.3	88
167	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	3.3	87
166	Lattice dynamics study of scheelite tungstates under high pressure I. BaWO4. *Physical Review B*, **2006**, 74,	3.3	85
165	High-pressure vibrational and optical study of Bi2Te3. *Physical Review B*, **2011**, 84,	3.3	83
164	Lattice dynamics of Sb2Te3 at high pressures. *Physical Review B*, **2011**, 84,	3.3	81
163	Combined Raman scattering and ab initio investigation of pressure-induced structural phase transitions in the scintillator ZnWO4. *Physical Review B*, **2008**, 78,	3.3	80
162	Phonon dispersion relations of zinc oxide: Inelastic neutron scattering and ab initio calculations. *Physical Review B*, **2010**, 81,	3.3	78
161	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	3.3	78
160	Pressure-induced structural phase transitions in materials and earth sciences. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 9-31	1.3	72

159	Zircon to monazite phase transition in CeVO4: X-ray diffraction and Raman-scattering measurements. *Physical Review B*, **2011**, 84,	3.3	71
158	Post-spinel transformations and equation of state in ZnGa2O4: Determination at high pressure by in situ x-ray diffraction. *Physical Review B*, **2009**, 79,	3.3	64
157	Experimental and theoretical study of band structure of InSe and In1□GaxSe (x. *Physical Review B*, **2001**, 63,	3.3	64
156	High-pressure studies of topological insulators Bi2Se3, Bi2Te3, and Sb2Te3. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 669-676	1.3	61
155	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO4: Comparison with isomorphic compounds. *Physical Review B*, **2011**, 83,	3.3	61
154	High-pressure structural phase transitions in CuWO4. *Physical Review B*, **2010**, 81,	3.3	60
153	Structural and vibrational study of cubic Sb2O3 under high pressure. *Physical Review B*, **2012**, 85,	3.3	57
152	Experimental and theoretical investigations on the polymorphism and metastability of BiPO4. *Dalton Transactions*, **2013**, 42, 14999-5015	4.3	56
151	Growth, characterization, and high-pressure optical studies of CuWO4. *High Pressure Research*, **2008** , 28, 565-570	1.6	56
150	Crystal symmetry and pressure effects on the valence band structure of □-InSe and □GaSe: Transport measurements and electronic structure calculations. *Physical Review B*, **2005**, 71,	3.3	54
149	Effects of high-pressure on the structural, vibrational, and electronic properties of monazite-type PbCrO4. *Physical Review B*, **2012**, 85,	3.3	53
148	Oscillations studied with the smartphone ambient light sensor. *European Journal of Physics*, **2013**, 34, 1349-1354	0.8	53
147	Lattice dynamics of YVO4 at high pressures. *Physical Review B*, **2010**, 81,	3.3	52
146	Structural, Vibrational, and Electronic Study of Sb2S3 at High Pressure. *Journal of Physical Chemistry C*, **2016**, 120, 10547-10558	3.8	52
145	Effect of Pressure on Phonon Modes in Wurtzite Zinc Oxide. *High Pressure Research*, **2002**, 22, 299-304	1.6	51
144	Isostructural Second-Order Phase Transition of □Bi2O3 at High Pressures: An Experimental and Theoretical Study. *Journal of Physical Chemistry C*, **2014**, 118, 23189-23201	3.8	50
143	High-pressure lattice dynamical study of bulk and nanocrystalline In2O3. *Journal of Applied Physics*, **2012**, 112, 123511	2.5	49
142	Synthesis, structure and luminescence of Er3+-doped Y3Ga5O12 nano-garnets. *Journal of Materials Chemistry*, **2012**, 22, 13788		49

141	High-pressure study of ScVO4 by Raman scattering and ab initio calculations. *Physical Review B*, **2011**, 83,	3.3	49
140	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. *Journal of Applied Physics*, **2008**, 104, 063524	2.5	48
139	High-pressure effects on the optical-absorption edge of CdIn2S4, MgIn2S4, and MnIn2S4 thiospinels. *Journal of Applied Physics*, **2008**, 103, 063710	2.5	48
138	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,	3.3	47
137	Lattice dynamics study of scheelite tungstates under high pressure II. PbWO4. *Physical Review B*, **2006**, 74,	3.3	47
136	On the ferroelastic nature of the scheelite-to-fergusonite phase transition in orthotungstates and orthomolybdates. *Materials Research Bulletin*, **2009**, 44, 807-811	5.1	45
135	Photoluminescence of thermal-annealed nanocolumnar ZnO thin films grown by electrodeposition. *Applied Surface Science*, **2006**, 252, 2826-2831	6.7	41
134	Theoretical and experimental study of the structural stability of TbPO4 at high pressures. *Physical Review B*, **2010**, 81,	3.3	40
133	High-pressure polymorphs of TbVO4: A Raman and ab initio study. *Journal of Alloys and Compounds*, **2013**, 577, 327-335	5.7	39
132	Crystal Chemistry of CdIn2S4, MgIn2S4, and MnIn2S4 Thiospinels under High Pressure. *Journal of Physical Chemistry C*, **2012**, 116, 14078-14087	3.8	38
131	InN thin film lattice dynamics by grazing incidence inelastic x-ray scattering. *Physical Review Letters*, **2011**, 106, 205501	7.4	38
130	Optical properties of wurtzite and rock-salt ZnO under pressure. *Microelectronics Journal*, **2005**, 36, 928-932	1.8	37
129	High-pressure optical and vibrational properties of CdGa2Se4: Order-disorder processes in adamantine compounds. *Journal of Applied Physics*, **2012**, 111, 013518	2.5	36
128	Synthesis of a novel zeolite through a pressure-induced reconstructive phase transition process. *Angewandte Chemie - International Edition*, **2013**, 52, 10458-62	16.4	36
127	Lattice dynamics of ZnAl2O4 and ZnGa2O4 under high pressure. *Annalen Der Physik*, **2011**, 523, 157-167	2.6	36
126	Effect of thermal annealing on ZnO:Al thin films grown by spray pyrolysis. *Superlattices and Microstructures*, **2007**, 42, 134-139	2.8	35
125	ZnO-based spinels grown by electrodeposition. *Journal of Physics and Chemistry of Solids*, **2012**, 73, 1111-1115	3.1	34
124	Experimental and Theoretical Study of Bi2O2Se Under Compression. *Journal of Physical Chemistry C* , **2018**, 122, 8853-8867	3.8	32

123	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. *Journal of Physical Chemistry C*, **2014**, 118, 13177-13185	3.8	30
122	Crystal stability and pressure-induced phase transitions in scheelite AWO4 (A = Ca, Sr, Ba, Pb, Eu) binary oxides. II: Towards a systematic understanding. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 295-302	1.3	30
121	Crystal stability and pressure-induced phase transitions in scheelite AWO4 (A = Ca, Sr, Ba, Pb, Eu) binary oxides. I: A review of recent ab initio calculations, ADXRD, XANES, and Raman studies. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 325-330	1.3	28
120	Band structure of indium selenide investigated by intrinsic photoluminescence under high pressure. *Physical Review B*, **2004**, 70,	3.3	28
119	Effect of pressure on crystal-field transitions of Nd-doped YVO4. *Physical Review B*, **2004**, 69,	3.3	28
118	Structural, Vibrational, and Electronic Study of □As2Te3 under Compression. *Journal of Physical Chemistry C*, **2016**, 120, 19340-19352	3.8	28
117	Structural study of □Bi2O3 under pressure. *Journal of Physics Condensed Matter*, **2013**, 25, 475402	1.8	27
116	Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi2Se3 under high pressure. *Physical Review B*, **2012**, 85,	3.3	27
115	Effect of pressure on crystal-field transitions of Nd-doped YLiF4. *Physical Review B*, **2001**, 64,	3.3	27
114	Chemical pressure effects on the spectroscopic properties of Nd^3+-doped gallium nano-garnets. *Optical Materials Express*, **2015**, 5, 1661	2.6	26
113	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. *Journal of Applied Physics*, **2013**, 114, 233507	2.5	25
112	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. *Journal of Alloys and Compounds*, **2014**, 583, 70-78	5.7	25
111	Pbca-Type In2O3: The High-Pressure Post-Corundum phase at Room Temperature.. *Journal of Physical Chemistry C*, **2014**, 118, 20545-20552	3.8	24
110	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. *Journal of Applied Physics*, **2013**, 113, 073510	2.5	24
109	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. *Physical Review B*, **2010**, 81,	3.3	24
108	Theoretical and experimental study of CaWO4 and SrWO4 under pressure. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 2164-2171	3.9	24
107	Effect of isotopic mass on the photoluminescence spectra of zinc oxide. *Solid State Communications* , **2003**, 128, 35-39	1.6	24
106	Raman scattering study of pressure-induced phase transitions in AIIB2IIIC4VI defect chalcopyrites and spinels. *Journal of Physics and Chemistry of Solids*, **2003**, 64, 1603-1607	3.9	24

105	Ordered helium trapping and bonding in compressed arsenolite: Synthesis of As4O6·2He. *Physical Review B*, **2016**, 93,	3.3	23
104	Experimental and Theoretical Studies on InSe at High Pressure. *Inorganic Chemistry*, **2018**, 57, 8241-8252	5.1	22
103	Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated Y2O3:Eu3+ phosphors synthesized by a complex based precursor solution method. *Current Applied Physics*, **2014**, 14, 72-81	2.6	21
102	Phase Behavior of Ag2CrO4 under Compression: Structural, Vibrational, and Optical Properties. *Journal of Physical Chemistry C*, **2013**, 117, 12239-12248	3.8	21
101	New high-pressure phase and equation of state of Ce2Zr2O8. *Journal of Applied Physics*, **2012**, 111, 053519	2.5	21
100	High-pressure lattice-dynamics of NdVO4. *Journal of Physics and Chemistry of Solids*, **2017**, 100, 126-133	3.9	20
99	Structural, vibrational, and electrical study of compressed BiTeBr. *Physical Review B*, **2016**, 93,	3.3	19
98	Structural and electrical study of the topological insulator SnBi2Te4 at high pressure. *Journal of Alloys and Compounds*, **2016**, 685, 962-970	5.7	19
97	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO3 (A = Al, Sc, Fe, and In). *Journal of Physical Chemistry C*, **2014**, 118, 4354-4361	3.8	19
96	Lattice Dynamics Study of HgGa2Se4 at High Pressures. *Journal of Physical Chemistry C*, **2013**, 117, 15773-15781	3.8	19
95	Room-temperature vibrational properties of multiferroic MnWO4 under quasi-hydrostatic compression up to 39 GPa. *Journal of Applied Physics*, **2014**, 115, 043510	2.5	19
94	Raman scattering study of pressure-induced phase transitions in MIn2S4 spinels. *Journal of Physics Condensed Matter*, **2002**, 14, 6801-6813	1.8	19
93	Direct to Indirect Crossover in III-VI Layered Compounds and Alloys under Pressure. *Physica Status Solidi (B): Basic Research*, **1999**, 211, 33-38	1.3	19
92	The study of two-dimensional oscillations using a smartphone acceleration sensor: example of Lissajous curves. *Physics Education*, **2015**, 50, 580-586	0.8	18
91	Vibrational study of HgGa2S4 under high pressure. *Journal of Applied Physics*, **2013**, 113, 093512	2.5	18
90	Pressure dependence of photoluminescence spectra of self-assembled InAs/GaAs quantum dots. *Physica Status Solidi (B): Basic Research*, **2003**, 235, 496-500	1.3	18
89	Experimental and Theoretical Investigations on Structural and Vibrational Properties of Melilite-Type Sr2ZnGe2O7 at High Pressure and Delineation of a High-Pressure Monoclinic Phase. *Inorganic Chemistry*, **2015**, 54, 6594-605	5.1	17
88	Metastable structural transformations and pressure-induced amorphization in natural (Mg,Fe)2SiO4 olivine under static compression: a raman spectroscopic study. *American Mineralogist*, **2016**, 101, 1642-1650	2.9	17

87	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	17
86	Crystal structure of HgGa2Se4 under compression. *Materials Research Bulletin*, **2013**, 48, 2128-2133	5.1	17
85	Raman scattering study of bulk and nanocrystalline PbMoO4 at high pressures. *Journal of Applied Physics*, **2012**, 112, 103510	2.5	17
84	Specific features of the electronic structure of III□VI layered semiconductors: recent results on structural and optical measurements under pressure and electronic structure calculations. *Physica Status Solidi (B): Basic Research*, **2003**, 235, 267-276	1.3	17
83	Synthesis and High-Pressure Study of Corundum-Type In2O3. *Journal of Physical Chemistry C*, **2015**, 119, 29076-29087	3.8	16
82	The phonon dispersion of wurtzite-ZnO revisited. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 1478-1482	1.3	16
81	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	1.8	16
80	Effect of pressure on the Raman anomaly of zinc-blende CuBr and Raman spectra of high-pressure phases. *Physical Review B*, **2001**, 64,	3.3	16
79	High-pressure structural and vibrational properties of monazite-type BiPO, LaPO, CePO, and PrPO. *Journal of Physics Condensed Matter*, **2018**, 30, 065401	1.8	15
78	□i2O3 under compression: Optical and elastic properties and electron density topology analysis. *Physical Review B*, **2016**, 93,	3.3	15
77	High-pressure lattice dynamics in wurtzite and rocksalt indium nitride investigated by means of Raman spectroscopy. *Physical Review B*, **2013**, 88,	3.3	15
76	High-pressure structural and elastic properties of Tl2O3. *Journal of Applied Physics*, **2014**, 116, 133521	2.5	15
75	Effect of annealing on Zn1□CoxO thin films prepared by electrodeposition. *Microelectronics Journal*, **2009**, 40, 268-271	1.8	15
74	High-pressure Raman scattering in wurtzite indium nitride. *Applied Physics Letters*, **2011**, 99, 011908	3.4	15
73	Neutron irradiation defects in gallium sulfide: Optical absorption measurements. *Journal of Applied Physics*, **1997**, 81, 6651-6656	2.5	15
72	Precursor effects of the Rhombohedral-to-Cubic Phase Transition in Indium Selenide. *High Pressure Research*, **2002**, 22, 261-266	1.6	15
71	Pressure-induced amorphization of YVO□Eu□+ nanoboxes. *Nanotechnology*, **2016**, 27, 025701	3.4	14
70	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. *Journal of Applied Physics*, **2013**, 113, 233501	2.5	14

69	Enhanced Hydrothermal Resistance of Y-TZP Ceramics Through Colloidal Processing. *Journal of the American Ceramic Society*, **2013**, 96, 1070-1076	3.8	14
68	Effect of N isotopic mass on the photoluminescence and cathodoluminescence spectra of gallium nitride. *European Physical Journal B*, **2004**, 40, 453-458	1.2	14
67	Optical absorption in GaTe under high pressure. *Physical Review B*, **1999**, 60, 8871-8877	3.3	14
66	Orpiment under compression: metavalent bonding at high pressure. *Physical Chemistry Chemical Physics*, **2020**, 22, 3352-3369	3.6	14
65	Investigation on the Luminescence Properties of InMO (M = V, Nb, Ta) Crystals Doped with Tb or Yb Rare Earth Ions. *ACS Omega*, **2020**, 5, 2148-2158	3.9	13
64	Analysis of the upconversion emission of yttrium orthoaluminate nano-perovskite co-doped with Er3+/Yb3+ ions for thermal sensing applications. *Journal of Luminescence*, **2018**, 202, 316-321	3.8	13
63	Electronic and elastic properties of yttrium gallium garnet under pressure from ab initio studies. *Journal of Applied Physics*, **2013**, 113, 183505	2.5	13
62	Synthesis of a Novel Zeolite through a Pressure-Induced Reconstructive Phase Transition Process. *Angewandte Chemie*, **2013**, 125, 10652-10656	3.6	13
61	Negative pressures in CaWO4 nanocrystals. *Journal of Applied Physics*, **2009**, 105, 094321	2.5	13
60	Theoretical study of the YLiF4 phase transitions under pressure. *Physical Review B*, **2006**, 73,	3.3	13
59	Pressure-Induced Phase Transitions in Sesquioxides. *Crystals*, **2019**, 9, 630	2.3	13
58	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. *Physical Chemistry Chemical Physics*, **2015**, 17, 9454-64	3.6	12
57	Electronic structure of wurtzite and rocksalt InN investigated by optical absorption under hydrostatic pressure. *Applied Physics Letters*, **2010**, 96, 201903	3.4	12
56	Structural and optical high-pressure study of spinel-type MnIn2S4. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 229-233	1.3	12
55	Characterization and Decomposition of the Natural van der Waals SnSbTe under Compression. *Inorganic Chemistry*, **2020**, 59, 9900-9918	5.1	11
54	High-pressure structural and lattice dynamical study of HgWO4. *Physical Review B*, **2010**, 82,	3.3	11
53	Effect of pressure on the Raman scattering of wurtzite AlN. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 42-47	1.3	11
52	Pressure dependence of the refractive index in InSe. *Semiconductor Science and Technology*, **2000**, 15, 806-812	1.8	11

51	Order□disorder processes in adamantine ternary ordered-vacancy compounds. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 1496-1504	1.3	10
50	Transport measurements under pressure in III□V layered semiconductors. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 162-168	1.3	10
49	High-Pressure Raman Study of Fe(IO3)3: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. *Journal of Physical Chemistry C*, **2020**, 124, 21329-21337	3.8	10
48	Lattice dynamics study of cubic Tb2O3. *Journal of Raman Spectroscopy*, **2018**, 49, 2021-2027	2.3	10
47	Structural and Lattice-Dynamical Properties of TbO under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. *Inorganic Chemistry*, **2020**, 59, 9648-9666	5.1	9
46	Structural Characterization of Aurophilic Gold(I) Iodide under High Pressure. *Inorganic Chemistry*, **2019**, 58, 10665-10670	5.1	9
45	Performance of graphene oxide-modified electrodeposited ZnO/Cu2O heterojunction solar cells. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2019**, 58, 263-273	1.9	9
44	HgGa2Se4 under high pressure: An optical absorption study. *Physica Status Solidi (B): Basic Research* , **2015**, 252, 2043-2051	1.3	9
43	Raman measurements on nanocolumnar ZnO crystals. *Physica Status Solidi (A) Applications and Materials Science*, **2005**, 202, 1602-1605	1.6	9
42	Experimental and Theoretical Study of SbPO under Compression. *Inorganic Chemistry*, **2020**, 59, 287-307	5.1	9
41	Spray pyrolysis synthesis and characterization of Mg1-xSrxMoO4 heterostructure with white light emission. *Journal of Alloys and Compounds*, **2020**, 813, 152235	5.7	9
40	Structural and vibrational properties of corundum-type InO nanocrystals under compression. *Nanotechnology*, **2017**, 28, 205701	3.4	8
39	Thermally activated cation ordering in ZnGa2Se4 single crystals studied by Raman scattering, optical absorption, and ab initio calculations. *Journal of Physics Condensed Matter*, **2013**, 25, 165802	1.8	8
38	Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. *Journal of Physical Chemistry C*, **2017**, 121, 15353-15367	3.8	8
37	High pressure phase transitions in NdVO4 **2015**,		8
36	Elastic and thermodynamic properties of □Bi2O3 at high pressures: Study of mechanical and dynamical stability. *Journal of Physics and Chemistry of Solids*, **2019**, 124, 111-120	3.9	8
35	High-pressure characterization of multifunctional CrVO. *Journal of Physics Condensed Matter*, **2020**, 32, 385403	1.8	7
34	Structural and Vibrational Study of Pseudocubic CdIn2Se4under Compression. *Journal of Physical Chemistry C*, **2014**, 118, 26987-26999	3.8	7

33	Zn1-xMgxO thin films deposited by spray pyrolysis. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2010**, 7, 2306-2310		7
32	Vibrational and elastic properties of As4O6 and As4O6·2He at high pressures: Study of dynamical and mechanical stability. *Journal of Applied Physics*, **2016**, 120, 155901	2.5	7
31	Structural and Vibrational Properties of CdAl2S4 under High Pressure: Experimental and Theoretical Approach. *Journal of Physical Chemistry C*, **2014**, 118, 15363-15374	3.8	6
30	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,	3.3	6
29	InBO3 and ScBO3 at high pressures: An ab initio study of elastic and thermodynamic properties. *Journal of Physics and Chemistry of Solids*, **2016**, 98, 198-208	3.9	6
28	Effect of pressure on La2(WO4)3 with a modulated scheelite-type structure. *Physical Review B*, **2014**, 89,	3.3	5
27	Cathodic electrodeposition of ZnCoO thin films. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 3358-3360		5
26	Effect of isotopic mass on the photoluminescence spectra of zinc sulfide. *Solid State Communications*, **2005**, 133, 253-258	1.6	5
25	Raman-active modes of porous gallium phosphide at high pressures and low temperatures. *Journal of Physics Condensed Matter*, **2002**, 14, 13879-13887	1.8	5
24	Band-to-Band and Band-to-Acceptor Photoluminescence Studies in InSe under Pressure. *Physica Status Solidi (B): Basic Research*, **1999**, 211, 105-110	1.3	5
23	Experimental and theoretical study of dense YBO3 and the influence of non-hydrostaticity. *Journal of Alloys and Compounds*, **2021**, 850, 156562	5.7	5
22	Anomalous Raman modes in tellurides. *Journal of Materials Chemistry C*,	7.1	5
21	Structural and vibrational study of Zn(IO3)2 combining high-pressure experiments and density-functional theory. *Physical Review B*, **2021**, 103,	3.3	5
20	Vibrational properties of CdGa2S4 at high pressure. *Journal of Applied Physics*, **2019**, 125, 115901	2.5	4
19	Crystal Structure of Sinhalite MgAlBO4 under High Pressure. *Journal of Physical Chemistry C*, **2015**, 119, 6777-6784	3.8	4
18	Experimental and theoretical study of Eu2(MoO4)3 under compression. *Journal of Physics Condensed Matter*, **2015**, 27, 465401	1.8	4
17	Arsenolite: a quasi-hydrostatic solid pressure-transmitting medium. *Journal of Physics Condensed Matter*, **2016**, 28, 475403	1.8	3
16	Study of the orpiment and anorpiment phases of As2S3 under pressure. *Journal of Physics: Conference Series*, **2017**, 950, 042018	0.3	3

15	Theoretical study of the scheelite-to-fergusonite phase transition in YLiF4 under pressure. *Journal of Physics and Chemistry of Solids*, **2006**, 67, 2077-2082	3.9	3
14	High density photoluminescence induced by laser pulse excitation in InSe under pressure. *High Pressure Research*, **2000**, 18, 81-87	1.6	3
13	(mathrm{AB}_{2} text {Se}_{4}) Ordered-Vacancy Compounds at High Pressures. *Springer Series in Materials Science*, **2014**, 163-184	0.9	3
12	Structural, vibrational and electronic properties of GaS under compression. *Physical Chemistry Chemical Physics*, **2021**, 23, 6841-6862	3.6	3
11	Borates or phosphates? That is the question. *Acta Crystallographica Section A: Foundations and Advances*, **2020**, 76, 197-205	1.7	2
10	Combined Experimental and Theoretical Studies: Lattice-Dynamical Studies at High Pressures with the Help of Ab Initio Calculations. *Minerals (Basel, Switzerland)*, **2021**, 11, 1283	2.4	2
9	(mathrm {AB}_{2}text {S}_{4}) Ordered-Vacancy Compounds at High Pressures. *Springer Series in Materials Science*, **2014**, 133-161	0.9	2
8	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of SbO. *Dalton Transactions*, **2021**, 50, 5493-5505	4.3	2
7	Structural and optical properties of Ta2O5:Eu3+: Mg2+ or Ca2+ phosphor prepared by molten salt method **2016**,		1
6	High-pressure theoretical and experimental study of HgWO4. *High Pressure Research*, **2011**, 31, 58-63	1.6	1
5	Neutron transmutation doping of III VI layered semiconductors. *Materials Science and Technology*, **1997**, 13, 954-956	1.5	1
4	Pressure-driven configurational crossover between 4f7 and 4f65d1 States Giant enhancement of narrow Eu2+ UV-Emission lines in SrB4O7 for luminescence manometry. *Acta Materialia*, **2022**, 231, 117886	8.4	1
3	Pressure-induced order-disorder transitions in InS: an experimental and theoretical study of structural and vibrational properties. *Physical Chemistry Chemical Physics*, **2021**, 23, 23625-23642	3.6	0
2	GdBO3 and YBO3 crystals under compression. *Journal of Alloys and Compounds*, **2021**, 866, 158962	5.7	0
1	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO3)2. *Journal of Physical Chemistry C* , **2021**, 125, 17448-17461	3.8	0