Placida RodrÃ-guez-Hernandez

List of Publications by Year
in descending order

202	6,251	53660	106150
papers	citations	45 h-index	65 g-index

204	204	204	4547
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	High-pressure structural study of the scheelite tungstatesCaWO4andSrWO4. Physical Review B, 2005, 72, .	1.1	159
2	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. Journal of Applied Physics, 2011, 110, .	1.1	151
3	Structural and vibrational study of Bi<mml: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<mml: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>under high pressure. Physical Review B, 2011, 84, .	1.1	138
4	Electronic and structural properties of cubic BN and BP. Physical Review B, 1995, 51, 14705-14708.	1.1	130
5	Elastic constants and electronic structure of beryllium chalcogenides BeS, BeSe, and BeTefrom first-principles calculations. Physical Review B, 1997, 55, 14043-14046.	1.1	121
6	Pressure effects on the electronic and optical properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>WO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow		

#	ARTICLE	IF	CITATIONS
19	Highâ€pressure studies of topological insulators Bi₂Se₃, Bi₂Te₃, and Sb₂Te₃. Physica Status Solidi (B): Basic Research, 2013, 250, 669-676.	0.7	77
20	Structural, Vibrational, and Electronic Study of Sb₂S₃ at High Pressure. Journal of Physical Chemistry C, 2016, 120, 10547-10558.	1.5	73
21	Experimental and theoretical investigations on the polymorphism and metastability of BiPO4. Dalton Transactions, 2013, 42, 14999.	1.6	70
22	High-pressure structural phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CuWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml: Physical Review B, 2010, 81, .	1.1	67
23	Ground-state properties and high-pressure phase of beryllium chalcogenides BeSe, BeTe, and BeS. Physical Review B, 1996, 54, 11861-11864.	1.1	66
24	High-pressure phase transitions and compressibility of wolframite-type tungstates. Journal of Applied Physics, 2010, 107, .	1.1	66
25	Structural evolution of theCuGaO2delafossite under high pressure. Physical Review B, 2004, 69, .	1.1	64
26	Phase transitions in wolframite-type<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CdWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml: high pressure studied by Raman spectroscopy and density-functional theory. Physical Review B, 2009, 79, .	1.1	64
27	Lattice dynamics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YVO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml: high pressures. Physical Review B, 2010, 81, .	1.1	60
28	Tuning the band gap of PbCrO4 through high-pressure: Evidence of wide-to-narrow semiconductor transitions. Journal of Alloys and Compounds, 2014, 587, 14-20.	2.8	60
29	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO₄. Inorganic Chemistry, 2016, 55, 4958-4969.	1.9	60
30	Isostructural Second-Order Phase Transition of Î²-Bi₂O₃ at High Pressures: An Experimental and Theoretical Study. Journal of Physical Chemistry C, 2014, 118, 23189-23201.	1.5	59
31	High-pressure structural behaviour of HoVO₄: combined XRD experiments andab initiocalculations. Journal of Physics Condensed Matter, 2014, 26, 265402.	0.7	58
32	Structural and dielectric properties of AlN under pressure. Physica B: Condensed Matter, 2008, 403, 4059-4062.	1.3	57
33	Ab initio lattice dynamics and piezoelectric properties of MgS and MgSe alkaline earth chalcogenides. European Physical Journal B, 2010, 73, 185-193.	0.6	55
34	High-pressure lattice dynamical study of bulk and nanocrystalline In2O3. Journal of Applied Physics, 2012, 112, .	1.1	55
35	Exploring the high-pressure behavior of the three known polymorphs of BiPO4: Discovery of a new polymorph. Journal of Applied Physics, 2015, 117, .	1.1	55
36	Electronic and Structural Properties of BeSe, BeTe, and BeS: Comparison between abâ€initio Theory and Experiments. Physica Status Solidi (B): Basic Research, 1996, 198, 439-446.	0.7	54

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37	First-principles study of the high-pressure phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZnAl</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mtext>O</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZnGa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mtext>O</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:math>under high pressure. Physical Review B, 2011, 83, .	1.1	54
38	High-pressure study of ScVO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>by Raman scattering andab initiocalculations. Physical Review B, 2011, 83, .	1.1	54
39	First-principles study of high-pressure phonon dispersions of wurtzite, zinc-blende, and rocksalt AlN. Journal of Applied Physics, 2008, 103, .	1.1	52
40	Structural stability ofFe5Si3andNi2Sistudied by high-pressure x-ray diffraction andab initiototal-energy calculations. Physical Review B, 2008, 77, .	1.1	51
41	Lattice dynamics study of scheelite tungstates under high pressure II.PbWO4. Physical Review B, 2006, 74, .	1.1	50
42	AlX (X = As, P, Sb) Compounds under Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 39-43.	0.7	47
43	Theoretical Study of the Elastic Properties of III-P Compounds. Physica Status Solidi (B): Basic Research, 2001, 223, 411-415.	0.7	47
44	Lattice dynamics of ZnAl₂O₄ and ZnGa₂O₄ under high pressure. Annalen Der Physik, 2011, 523, 157-167.	0.9	47
45	Theoretical and experimental study of the structural stability of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TbPO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>high pressures. Physical Review B, 2010, 81, .	1.1	46
46	High-pressure optical and vibrational properties of CdGa2Se4: Order-disorder processes in adamantine compounds. Journal of Applied Physics, 2012, 111, .	1.1	46
47	Experimental and Theoretical Study of Bi₂O₂Se Under Compression. Journal of Physical Chemistry C, 2018, 122, 8853-8867.	1.5	46
48	Experimental and Theoretical Studies on Î±-In₂Se₃ at High Pressure. Inorganic Chemistry, 2018, 57, 8241-8252.	1.9	46
49	High-pressure polymorphs of TbVO4: A Raman and ab initio study. Journal of Alloys and Compounds, 2013, 577, 327-335.	2.8	45
50	Ab initio calculations of electronic structure and elastic constants in AlP. Semiconductor Science and Technology, 1992, 7, 1437-1440.	1.0	44
51	Crystal Chemistry of CdIn₂S₄, MgIn₂S₄, and MnIn₂S₄ Thiospinels under High Pressure. Journal of Physical Chemistry C, 2012, 116, 14078-14087.	1.5	44
52	Experimental and theoretical study of structural properties and phase transitions in YAsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>and YCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>	1.1	43
53	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO₄and TmPO₄. Journal of Physics Condensed Matter, 2017, 29, 095401.	0.7	43
54	Phase Stability of Lanthanum Orthovanadate at High Pressure. Journal of Physical Chemistry C, 2016, 120, 13749-13762.	1.5	42

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55	High-pressure characterization of the optical and electronic properties of InVO4, InNbO4, and InTaO4. SN Applied Sciences, 2019, 1, 1.	1.5	42
56	Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>InTa</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	1.1	39
57	Electronic structure of CuAlO2 and CuScO2 delafossites under pressure. Physica Status Solidi (B): Basic Research, 2007, 244, 309-314.	0.7	35
58	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.	0.7	34
59	First-principles study of lithium-doped carbon clathrates under pressure. Journal of Physics Condensed Matter, 2008, 20, 215218.	0.7	34
60	High-pressure phase transformations, pressure-induced amorphization, and polyamorphic transition of the clathrate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Rb</mml:mtext></mml:mrow><mml:mrow><mml:mn>6.15</mml:mn></mml	1.1	34
61	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. Journal of Physical Chemistry C, 2014, 118, 13177-13185.	1.5	33
62	Effects of pressure on the structure and lattice dynamics of TmPO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>: Experiments and calculations. Physical Review B, 2012, 85, .	1.1	32
63	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. Journal of Alloys and Compounds, 2014, 583, 70-78.	2.8	32
64	Crystal stability and pressure-induced phase transitions in scheelite AWO4 (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.	0.7	31
65	Polymorphs of CaSeO₄ under Pressure: A First-Principles Study of Structural, Electronic, and Vibrational Properties. Inorganic Chemistry, 2015, 54, 1765-1777.	1.9	31
66	Characterization and Decomposition of the Natural van der Waals SnSb₂Te₄ under Compression. Inorganic Chemistry, 2020, 59, 9900-9918.	1.9	31
67	Monazite-type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrCr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> under compression. Physical Review B, 2016, 94, .	1.1	30
68	Theoretical study of the pressure-induced structural phase transition of ScSb and YSb. International Journal of Quantum Chemistry, 2005, 101, 770-773.	1.0	29
69	Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi<mml: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<mml: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> under high pressure. Physical Review B, 2012, 85, .	1.1	29
70	High-Pressure Raman Scattering of CaWO₄ Up to 46.3 GPa: Evidence of a New High-Pressure Phase. Inorganic Chemistry, 2014, 53, 9729-9738.	1.9	29
71	Ordered helium trapping and bonding in compressed arsenolite: Synthesis of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">A</mml:mi><mml:msub><mml:mi mathvariant="normal">s</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mo>·</mml:mo><mml:mn>2</mml:mn><mml:mi>He</mml:mi></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	1.1	29
72	Pressure-Driven Isostructural Phase Transition in InNbO₄: In Situ Experimental and Theoretical Investigations. Inorganic Chemistry, 2017, 56, 5420-5430.	1.9	29

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73	ScVO₄under non-hydrostatic compression: a new metastable polymorph. Journal of Physics Condensed Matter, 2017, 29, 055401.	0.7	29
74	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. Journal of Applied Physics, 2013, 113, .	1.1	28
75	Structural and electrical study of the topological insulator SnBi2Te4 at high pressure. Journal of Alloys and Compounds, 2016, 685, 962-970.	2.8	28
76	High-pressure structural and vibrational properties of monazite-type BiPO₄, LaPO₄, CePO₄, and PrPO₄. Journal of Physics Condensed Matter, 2018, 30, 065401.	0.7	28
77	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. Physical Review B, 2010, 81, .	1.1	27
78	High-pressure transition to the post-barite phase in BaCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>hashemite. Physical Review B, 2012, 86, .	1.1	27
79	Pbca-Type In₂O₃: The High-Pressure Post-Corundum phase at Room Temperature.. Journal of Physical Chemistry C, 2014, 118, 20545-20552.	1.5	27
80	Experimental and ab Initio Study of Catena(bis(Î¼₂-iodo)-6-methylquinoline-copper(I)) under Pressure: Synthesis, Crystal Structure, Electronic, and Luminescence Properties. Inorganic Chemistry, 2016, 55, 7476-7484.	1.9	27
81	Stability of FeVO₄ under Pressure: An X-ray Diffraction and First-Principles Study. Inorganic Chemistry, 2018, 57, 7860-7876.	1.9	27
82	Experimental and theoretical study on the optical properties of LaVO₄ crystals under pressure. Physical Chemistry Chemical Physics, 2018, 20, 27314-27328.	1.3	26
83	Structural and Lattice-Dynamical Properties of Tb₂O₃ under Compression: A Comparative Study with Rare Earth and Related Sesquioxides. Inorganic Chemistry, 2020, 59, 9648-9666.	1.9	26
84	Polymorphism in Strontium Tungstate SrWO₄ under Quasi-Hydrostatic Compression. Inorganic Chemistry, 2016, 55, 10406-10414.	1.9	25
85	Structural, vibrational, and electrical study of compressed BiTeBr. Physical Review B, 2016, 93, .	1.1	25
86	Pressure-induced phase transformation in zircon-type orthovanadate SmVO₄from experiment and theory. Journal of Physics Condensed Matter, 2016, 28, 035402.	0.7	25
87	First-Principles Study of InVO₄ under Pressure: Phase Transitions from CrVO₄- to AgMnO₄-Type Structure. Inorganic Chemistry, 2017, 56, 2697-2711.	1.9	25
88	Relative Stability of Calcium Chalcogenides from Ab initio Theory. High Pressure Research, 2002, 22, 459-463.	0.4	24
89	Theoretical and experimental study of CaWO4 and SrWO4 under pressure. Journal of Physics and Chemistry of Solids, 2006, 67, 2164-2171.	1.9	24
90	First-principles calculations of electronic, vibrational, and structural properties of scheelite EuWO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>under pressure. Physical Review B, 2011, 84, .	1.1	24

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91	High-pressure lattice-dynamics of NdVO4. Journal of Physics and Chemistry of Solids, 2017, 100, 126-133.	1.9	24
92	Phase transition systematics in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BiVO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> by means of high-pressureâ€“high-temperature Raman experiments. Physical Review B, 2018, 98, .	1.1	24
93	High pressure theoretical and experimental analysis of the bandgap of BaMoO4, PbMoO4, and CdMoO4. Applied Physics Letters, 2019, 115, .	1.5	24
94	First-Order Isostructural Phase Transition Induced by High Pressure in Fe(IO₃)₃. Journal of Physical Chemistry C, 2020, 124, 8669-8679.	1.5	24
95	Anomalous Raman modes in tellurides. Journal of Materials Chemistry C, 0, , .	2.7	24
96	Lattice dynamics properties of zinc-blende and Nickel arsenide phases of AlP. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5340-5345.	0.9	23
97	Vibrational study of HgGa2S4 under high pressure. Journal of Applied Physics, 2013, 113, .	1.1	23
98	Phase Behavior of Ag₂CrO₄ under Compression: Structural, Vibrational, and Optical Properties. Journal of Physical Chemistry C, 2013, 117, 12239-12248.	1.5	23
99	Synthesis and High-Pressure Study of Corundum-Type In₂O₃. Journal of Physical Chemistry C, 2015, 119, 29076-29087.	1.5	23
100	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, 6594-6605.	1.9	23
101	Optical and structural study of the pressure-induced phase transition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CdWO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> Physical Review B, 2017, 95, .	1.1	23
102	Ab initiolattice dynamics of zinc-blende Ga_xIn_{1â^'x}N alloys. Journal of Physics Condensed Matter, 2007, 19, 486209.	0.7	22
103	Raman scattering study of bulk and nanocrystalline PbMoO4 at high pressures. Journal of Applied Physics, 2012, 112, 103510.	1.1	22
104	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.	1.5	22
105	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and ab initio calculations. Physical Review B, 2019, 100, .	1.1	22
106	Lattice Dynamics Study of HgGa₂Se₄ at High Pressures. Journal of Physical Chemistry C, 2013, 117, 15773-15781.	1.5	21
107	Pressure effects on the vibrational properties ofÎ±-Bi₂O₃: an experimental and theoretical study. Journal of Physics Condensed Matter, 2014, 26, 225401.	0.7	21
108	Correspondence: Strongly-driven Re+CO2 redox reaction at high-pressure and high-temperature. Nature Communications, 2016, 7, 13647.	5.8	21

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109	Exploring the Chemical Reactivity between Carbon Dioxide and Three Transition Metals (Au, Pt, and Re) at High-Pressure, High-Temperature Conditions. Inorganic Chemistry, 2016, 55, 10793-10799.	1.9	21
110	High pressure luminescence of Nd3+ in YAlO3 perovskite nanocrystals: A crystal-field analysis. Journal of Chemical Physics, 2018, 148, 044201.	1.2	21
111	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.	1.5	21
112	High-pressure structural and elastic properties of Tl2O3. Journal of Applied Physics, 2014, 116, .	1.1	20
113	Orpiment under compression: metavalent bonding at high pressure. Physical Chemistry Chemical Physics, 2020, 22, 3352-3369.	1.3	20
114	High Pressure Phases of AlSb from abâ€initio Theory. Physica Status Solidi (B): Basic Research, 1996, 198, 455-459.	0.7	19
115	Electronic and elastic properties of yttrium gallium garnet under pressure fromab initiostudies. Journal of Applied Physics, 2013, 113, 183505.	1.1	19
116	An Ultrahigh CO₂-Loaded Silicalite-1 Zeolite: Structural Stability and Physical Properties at High Pressures and Temperatures. Inorganic Chemistry, 2018, 57, 6447-6455.	1.9	19
117	Structural and vibrational study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Zn</mml:mi><mml:msub><mml:mrow><mml:mo>(</m high-pressure experiments and density-functional theory. Physical Review B, 2021, 103, .	1.1	19
118	Crystal structure of HgGa2Se4 under compression. Materials Research Bulletin, 2013, 48, 2128-2133.	2.7	18
119	Post-tilleyite, a dense calcium silicate-carbonate phase. Scientific Reports, 2019, 9, 7898.	1.6	18
120	Electronic structure of p-type ultraviolet-transparent conducting CuScO2 films. Thin Solid Films, 2008, 516, 1431-1433.	0.8	17
121	High-pressure Raman scattering study of defect chalcopyrite and defect stannite ZnGa2Se4. Journal of Applied Physics, 2013, 113, 233501.	1.1	17
122	Composition-dependent elastic modulus, vibration frequency and polaron properties of ZnSexTe1â^'x system. Optical Materials, 2013, 35, 2303-2308.	1.7	17
123	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. Physical Chemistry Chemical Physics, 2015, 17, 9454-9464.	1.3	17
124	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>under compression: Optical and elastic properties and electron density topology analysis. Physical Review B,	1.1	16
125	Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type LiNiPO₄. Inorganic Chemistry, 2018, 57, 10265-10276.	1.9	16
126	Elastic and thermodynamic properties of Î±-Bi2O3 at high pressures: Study of mechanical and dynamical stability. Journal of Physics and Chemistry of Solids, 2019, 124, 111-120.	1.9	16

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127	Elastic modulus and thermal properties of InN in the rocksalt phase. Computational Materials Science, 2014, 81, 374-377.	1.4	15
128	Lattice dynamics study of cubic Tb₂O₃. Journal of Raman Spectroscopy, 2018, 49, 2021-2027.	1.2	15
129	High-pressure behavior of CaMoO4. Physical Review Materials, 2017, 1, .	0.9	15
130	Response to â€œComment on â€˜First-principles study of high-pressure phonon dispersions of wurtzite, zinc-blende, and rocksalt AlNâ€™ â€•[J. Appl. Phys. 103, 013506 (2008)]. Journal of Applied Physics, 2008, 104, 076107.	1.1	14
131	Negative pressures in CaWO4 nanocrystals. Journal of Applied Physics, 2009, 105, .	1.1	14
132	Experimental and Theoretical Study of SbPO4 under Compression. Inorganic Chemistry, 2020, 59, 287-307.	1.9	14
133	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO₃)₂. Journal of Physical Chemistry C, 2021, 125, 17448-17461.	1.5	14
134	Electronic properties and high-pressure behavior of wolframite-type CoWO₄. Materials Advances, 2021, 2, 5955-5966.	2.6	14
135	High-Pressure Properties of Wolframite-Type ScNbO₄. Journal of Physical Chemistry C, 2022, 126, 4664-4676.	1.5	14
136	Pressure-driven configurational crossover between 4f7 and 4f65d1 States â€“ Giant enhancement of narrow Eu2+ UV-Emission lines in SrB4O7 for luminescence manometry. Acta Materialia, 2022, 231, 117886.	3.8	14
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138	Lattice dynamics of CuAlO2 under high pressure fromab initio calculations. Physica Status Solidi (B): Basic Research, 2007, 244, 342-346.	0.7	13
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