

Alfonso Munoz

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h-index

73
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296
ext. papers

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
276	High-pressure phases of group-IV, III \bar{V} , and II \bar{VI} compounds. <i>Reviews of Modern Physics</i> , 2003 , 75, 863-912	40.5	815
275	Theoretical study of the relative stability of structural phases in group-III nitrides at high pressures. <i>Physical Review B</i> , 2000 , 62, 16612-16623	3.3	183
274	High-pressure structural study of the scheelite tungstates CaWO ₄ and SrWO ₄ . <i>Physical Review B</i> , 2005 , 72,	3.3	152
273	Optical properties and electronic structure of rock-salt ZnO under pressure. <i>Applied Physics Letters</i> , 2003 , 83, 278-280	3.4	138
272	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. <i>Journal of Applied Physics</i> , 2011 , 110, 043723	2.5	132
271	Elastic constants and electronic structure of beryllium chalcogenides BeS, BeSe, and BeTe from first-principles calculations. <i>Physical Review B</i> , 1997 , 55, 14043-14046	3.3	117
270	Structural and vibrational study of Bi ₂ Se ₃ under high pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	115
269	Comment on High-pressure x-ray diffraction study of YBO ₃ /Eu ³⁺ , GdBO ₃ , and EuBO ₃ : Pressure-induced amorphization in GdBO ₃ [<i>J. Appl. Phys.</i> 115, 043507 (2014)]. <i>Journal of Applied Physics</i> , 2014 , 115, 216101	2.5	113
268	Electronic and structural properties of cubic BN and BP. <i>Physical Review B</i> , 1995 , 51, 14705-14708	3.3	111
267	Pressure effects on the electronic and optical properties of AWO ₄ wolframites (A = Cd, Mg, Mn, and Zn): The distinctive behavior of multiferroic MnWO ₄ . <i>Physical Review B</i> , 2012 , 86,	3.3	96
266	Temperature dependence of band gaps in semiconductors: Electron-phonon interaction. <i>Physical Review B</i> , 2012 , 86,	3.3	88
265	Determination of the high-pressure crystal structure of BaWO ₄ and PbWO ₄ . <i>Physical Review B</i> , 2006 , 73,	3.3	88
264	Pressure and temperature dependence of the lattice dynamics of CuAlO ₂ investigated by Raman scattering experiments and ab initio calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	87
263	High-pressure phase of gallium nitride. <i>Physical Review B</i> , 1991 , 44, 10372-10373	3.3	87
262	Lattice dynamics study of scheelite tungstates under high pressure I. BaWO ₄ . <i>Physical Review B</i> , 2006 , 74,	3.3	85
261	High-pressure vibrational and optical study of Bi ₂ Te ₃ . <i>Physical Review B</i> , 2011 , 84,	3.3	83
260	Lattice dynamics of Sb ₂ Te ₃ at high pressures. <i>Physical Review B</i> , 2011 , 84,	3.3	81

259	High-pressure x-ray diffraction and ab initio study of Ni ₂ Mo ₃ N, Pd ₂ Mo ₃ N, Pt ₂ Mo ₃ N, Co ₃ Mo ₃ N, and Fe ₃ Mo ₃ N: Two families of ultra-incompressible bimetallic interstitial nitrides. <i>Physical Review B</i> , 2010 , 82,	3.3	80
258	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
257	On the band gap of CuAlO ₂ delafossite. <i>Applied Physics Letters</i> , 2006 , 88, 181904	3.4	79
256	Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type PbCrO ₄ , PbSeO ₄ , SrCrO ₄ , and SrSeO ₄ . <i>Inorganic Chemistry</i> , 2015 , 54, 7524-35	5.1	78
255	First-principles pseudopotential study of the phase stability of the III-V semiconductors GaAs and AlAs. <i>Physical Review B</i> , 1995 , 52, 8881-8892	3.3	78
254	Electronic, vibrational, and thermodynamic properties of metacinnabar HgS , HgSe , and HgTe . <i>Physical Review B</i> , 2009 , 80,	3.3	75
253	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
252	A combined high-pressure experimental and theoretical study of the electronic band-structure of scheelite-type AWO ₄ (A = Ca, Sr, Ba, Pb) compounds. <i>Journal of Applied Physics</i> , 2011 , 110, 043703	2.5	68
251	Ground-state properties and high-pressure phase of beryllium chalcogenides BeSe, BeTe, and BeS. <i>Physical Review B</i> , 1996 , 54, 11861-11864	3.3	66
250	Structural evolution of the CuGaO ₂ delafossite under high pressure. <i>Physical Review B</i> , 2004 , 69,	3.3	63
249	Phase transitions in wolframite-type CdWO ₄ at high pressure studied by Raman spectroscopy and density-functional theory. <i>Physical Review B</i> , 2009 , 79,	3.3	62
248	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
247	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
246	High-pressure structural phase transitions in CuWO ₄ . <i>Physical Review B</i> , 2010 , 81,	3.3	60
245	Experimental and theoretical investigations on the polymorphism and metastability of BiPO ₄ . <i>Dalton Transactions</i> , 2013 , 42, 14999-5015	4.3	56
244	High-pressure phase transitions and compressibility of wolframite-type tungstates. <i>Journal of Applied Physics</i> , 2010 , 107, 083506	2.5	54
243	Lattice dynamics of YVO ₄ at high pressures. <i>Physical Review B</i> , 2010 , 81,	3.3	52
242	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

241	Isostructural Second-Order Phase Transition of Bi_2O_3 at High Pressures: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23189-23201	3.8	50
240	Structural and dielectric properties of AlN under pressure. <i>Physica B: Condensed Matter</i> , 2008 , 403, 4059-4062	4.6	50
239	Exploring the high-pressure behavior of the three known polymorphs of BiPO_4 : Discovery of a new polymorph. <i>Journal of Applied Physics</i> , 2015 , 117, 105902	2.5	49
238	High-pressure lattice dynamical study of bulk and nanocrystalline In_2O_3 . <i>Journal of Applied Physics</i> , 2012 , 112, 123511	2.5	49
237	Synthesis, structure and luminescence of Er^{3+} -doped $\text{Y}_3\text{Ga}_5\text{O}_{12}$ nano-garnets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13788		49
236	High-pressure study of ScVO_4 by Raman scattering and ab initio calculations. <i>Physical Review B</i> , 2011 , 83,	3.3	49
235	First-principles study of the high-pressure phase transition in ZnAl_2O_4 and ZnGa_2O_4 : From cubic spinel to orthorhombic post-spinel structures. <i>Physical Review B</i> , 2009 , 79,	3.3	49
234	High-pressure structural behaviour of HoVO_4 : combined XRD experiments and ab initio calculations. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 265402	1.8	47
233	First-principles study of high-pressure phonon dispersions of wurtzite, zinc-blende, and rocksalt AlN. <i>Journal of Applied Physics</i> , 2008 , 103, 013506	2.5	47
232	Lattice dynamics study of scheelite tungstates under high pressure II. PbWO_4 . <i>Physical Review B</i> , 2006 , 74,	3.3	47
231	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO_4 . <i>Inorganic Chemistry</i> , 2016 , 55, 4958-69	5.1	47
230	Tuning the band gap of PbCrO_4 through high-pressure: Evidence of wide-to-narrow semiconductor transitions. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 14-20	5.7	46
229	Structural stability of Fe_5Si_3 and Ni_2Si studied by high-pressure x-ray diffraction and ab initio total-energy calculations. <i>Physical Review B</i> , 2008 , 77,	3.3	46
228	Ab initio lattice dynamics and piezoelectric properties of MgS and MgSe alkaline earth chalcogenides. <i>European Physical Journal B</i> , 2010 , 73, 185-193	1.2	45
227	Theoretical Study of the Elastic Properties of III-B Compounds. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 223, 411-415	1.3	45
226	Electronic and Structural Properties of BeSe , BeTe , and BeS : Comparison between ab-initio Theory and Experiments. <i>Physica Status Solidi (B): Basic Research</i> , 1996 , 198, 439-446	1.3	45
225	$\text{K}/\text{Si}(100) \ 2 \times 1$: A Case Study for the Transfer of Charge between Alkali Metals and Semiconductor Surfaces. <i>Europhysics Letters</i> , 1988 , 5, 727-732	1.6	44
224	First-principles calculation of the elastic constants of AlAs. <i>Physical Review B</i> , 1989 , 40, 11934-11936	3.3	42

223	Theoretical and experimental study of the structural stability of TbPO ₄ at high pressures. <i>Physical Review B</i> , 2010 , 81,	3.3	40
222	Structure and static properties of indium nitride at low and moderate pressures. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 6015-6022	1.8	40
221	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
220	Heterojunction valence-band-discontinuity dependence on face orientation. <i>Physical Review B</i> , 1987 , 35, 6468-6470	3.3	39
219	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
218	Optical properties of wurtzite and rock-salt ZnO under pressure. <i>Microelectronics Journal</i> , 2005 , 36, 928-932	3.2	37
217	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
216	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
215	Experimental and theoretical study of structural properties and phase transitions in YAsO ₄ and YCrO ₄ . <i>Physical Review B</i> , 2011 , 83,	3.3	36
214	Phase Stability of Lanthanum Orthovanadate at High Pressure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13749-13762	3.8	36
213	Electronic structure of CuAlO ₂ and CuScO ₂ delafossites under pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 309-314	1.3	33
212	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
211	First-principles study of electronic, vibrational, elastic, and magnetic properties of FeF ₂ as a function of pressure. <i>Physical Review B</i> , 2012 , 85,	3.3	32
210	High-pressure phase transformations, pressure-induced amorphization, and polyamorphic transition of the clathrate Rb ₆ .15Si ₄₆ . <i>Physical Review B</i> , 2009 , 79,	3.3	32
209	AlX (X = As, P, Sb) Compounds under Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 211, 39-43	1.3	32
208	Semiconductor interface formation: The role of the induced density of interface states. <i>Applied Surface Science</i> , 1990 , 41-42, 144-150	6.7	32
207	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO and TmPO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 095401	1.8	31
206	Theoretical study of the cinnabar phases in GaAs and GaP. <i>Physical Review B</i> , 1998 , 57, 1344-1347	3.3	31

205	Ab initio calculations of electronic structure and elastic constants in ALP. <i>Semiconductor Science and Technology</i> , 1992 , 7, 1437-1440	1.8	31
204	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
203	First-principles study of lithium-doped carbon clathrates under pressure. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 215218	1.8	30
202	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
201	Electronic, vibrational, and thermodynamic properties of ZnS with zinc-blende and rocksalt structure. <i>Physical Review B</i> , 2010 , 81,	3.3	28
200	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
199	Theoretical study of the pressure-induced structural phase transition of ScSb and YSb. <i>International Journal of Quantum Chemistry</i> , 2005 , 101, 770-773	2.1	28
198	High-pressure characterization of the optical and electronic properties of InVO ₄ , InNbO ₄ , and InTaO ₄ . <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	27
197	Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor InTaO ₄ . <i>Physical Review B</i> , 2016 , 93,	3.3	27
196	Structural study of Bi ₂ O ₃ under pressure. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 475402	1.8	27
195	Polymorphs of CaSeO ₄ under pressure: a first-principles study of structural, electronic, and vibrational properties. <i>Inorganic Chemistry</i> , 2015 , 54, 1765-77	5.1	27
194	Effects of pressure on the structure and lattice dynamics of TmPO ₄ : Experiments and calculations. <i>Physical Review B</i> , 2012 , 85,	3.3	27
193	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
192	Early Stages of GaAs-Ge(110) Interface Formation. <i>Europhysics Letters</i> , 1986 , 2, 385-391	1.6	27
191	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
190	Monazite-type SrCrO ₄ under compression. <i>Physical Review B</i> , 2016 , 94,	3.3	26
189	High-pressure Raman scattering of CaWO ₄ up to 46.3 GPa: evidence of a new high-pressure phase. <i>Inorganic Chemistry</i> , 2014 , 53, 9729-38	5.1	26
188	Ab initio study of the phase transformations of ZnSe under high pressure: stability of the cinnabar and SC16 phases. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 1705-1713	1.8	26

187	Structural and elastic properties of defect chalcopyrite HgGa ₂ S ₄ under high pressure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 70-78	5.7	25
186	Pressure-Driven Isostructural Phase Transition in InNbO: In Situ Experimental and Theoretical Investigations. <i>Inorganic Chemistry</i> , 2017 , 56, 5420-5430	5.1	24
185	Pbca-Type In ₂ O ₃ : The High-Pressure Post-Corundum phase at Room Temperature.. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20545-20552	3.8	24
184	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
183	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. <i>Physical Review B</i> , 2010 , 81,	3.3	24
182	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
181	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
180	Pressure-induced phase-transition sequence in CoF ₂ : An experimental and first-principles study on the crystal, vibrational, and electronic properties. <i>Physical Review B</i> , 2013 , 88,	3.3	23
179	Relative Stability of Calcium Chalcogenides from Ab initio Theory. <i>High Pressure Research</i> , 2002 , 22, 459-463	4.6	23
178	Polymorphism in Strontium Tungstate SrWO under Quasi-Hydrostatic Compression. <i>Inorganic Chemistry</i> , 2016 , 55, 10406-10414	5.1	22
177	Experimental and Theoretical Studies on HnSe at High Pressure. <i>Inorganic Chemistry</i> , 2018 , 57, 8241-8252	5.1	22
176	Broadband, site selective and time resolved photoluminescence spectroscopic studies of finely size-modulated Y ₂ O ₃ :Eu ³⁺ phosphors synthesized by a complex based precursor solution method. <i>Current Applied Physics</i> , 2014 , 14, 72-81	2.6	21
175	Optical nanothermometer based on the calibration of the Stokes and upconverted green emissions of Er ³⁺ ions in Y ₃ Ga ₅ O ₁₂ nano-garnets. <i>RSC Advances</i> , 2014 , 4, 57691-57701	3.7	21
174	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
173	Electronic and phononic properties of cinnabar: Ab initio calculations and some experimental results. <i>Physical Review B</i> , 2010 , 82,	3.3	21
172	First-principles calculations of electronic, vibrational, and structural properties of scheelite EuWO ₄ under pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	21
171	Ab initio lattice dynamics of zinc-blende GaxIn _{1-x} N alloys. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 486209	1.8	21
170	High-pressure lattice-dynamics of NdVO ₄ . <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 100, 126-133	3.9	20

169	Lattice dynamics properties of zinc-blende and Nickel arsenide phases of AlP. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 5340-5345	2.3	20
168	Experimental and theoretical study on the optical properties of LaVO crystals under pressure. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27314-27328	3.6	20
167	ScVO under non-hydrostatic compression: a new metastable polymorph. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 055401	1.8	19
166	Structural, vibrational, and electrical study of compressed BiTeBr. <i>Physical Review B</i> , 2016 , 93,	3.3	19
165	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
164	Compressibility Systematics of Calcite-Type Borates: An Experimental and Theoretical Structural Study on ABO ₃ (A = Al, Sc, Fe, and In). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4354-4361	3.8	19
163	Lattice Dynamics Study of HgGa ₂ Se ₄ at High Pressures. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15773-15781	3.8	19
162	Experimental and theoretical investigation of the stability of the monoclinic BaWO ₄ -II phase at high pressure and high temperature. <i>Physical Review B</i> , 2010 , 81,	3.3	19
161	Comparative Study of Novel Structures in Silicon and Germanium. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 223, 379-384	1.3	19
160	Correspondence: Strongly-driven Re+CO redox reaction at high-pressure and high-temperature. <i>Nature Communications</i> , 2016 , 7, 13647	17.4	19
159	Stability and nature of the volume collapse of FeO under extreme conditions. <i>Nature Communications</i> , 2018 , 9, 4554	17.4	19
158	First-Principles Study of InVO under Pressure: Phase Transitions from CrVO- to AgMnO-Type Structure. <i>Inorganic Chemistry</i> , 2017 , 56, 2697-2711	5.1	18
157	High pressure luminescence of Nd in YAlO perovskite nanocrystals: A crystal-field analysis. <i>Journal of Chemical Physics</i> , 2018 , 148, 044201	3.9	18
156	Pressure-induced phase transformation in zircon-type orthovanadate SmVO ₄ from experiment and theory. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 035402	1.8	18
155	Vibrational study of HgGa ₂ S ₄ under high pressure. <i>Journal of Applied Physics</i> , 2013 , 113, 093512	2.5	18
154	High-pressure transition to the post-barite phase in BaCrO ₄ hashemite. <i>Physical Review B</i> , 2012 , 86,	3.3	18
153	The simultaneous low state spectral energy distribution of 1ES 2344+514 from radio to very high energies. <i>Astronomy and Astrophysics</i> , 2013 , 556, A67	5.1	18
152	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

151	Experimental and ab Initio Study of Catena(bis(2-iodo)-6-methylquinoline-copper(I)) under Pressure: Synthesis, Crystal Structure, Electronic, and Luminescence Properties. <i>Inorganic Chemistry</i> , 2016 , 55, 7476-84	5.1	17
150	Exploring the Chemical Reactivity between Carbon Dioxide and Three Transition Metals (Au, Pt, and Re) at High-Pressure, High-Temperature Conditions. <i>Inorganic Chemistry</i> , 2016 , 55, 10793-10799	5.1	17
149	Stability of FeVO under Pressure: An X-ray Diffraction and First-Principles Study. <i>Inorganic Chemistry</i> , 2018 , 57, 7860-7876	5.1	17
148	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
147	Crystal structure of HgGa ₂ Se ₄ under compression. <i>Materials Research Bulletin</i> , 2013 , 48, 2128-2133	5.1	17
146	Optical and structural study of the pressure-induced phase transition of CdWO ₄ . <i>Physical Review B</i> , 2017 , 95,	3.3	17
145	Raman scattering study of bulk and nanocrystalline PbMoO ₄ at high pressures. <i>Journal of Applied Physics</i> , 2012 , 112, 103510	2.5	17
144	Electronic and phononic properties of the chalcopyrite CuGaS ₂ . <i>Physical Review B</i> , 2011 , 83,	3.3	17
143	First-principles description of atomic gold chains on Ge(001). <i>Physical Review B</i> , 2010 , 81,	3.3	17
142	Theoretical calculation for a ZnSe-Ge(110) heterojunction with an ultrathin intralayer. <i>Physical Review B</i> , 1987 , 35, 7721-7724	3.3	17
141	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
140	Electronic structure of p-type ultraviolet-transparent conducting CuScO ₂ films. <i>Thin Solid Films</i> , 2008 , 516, 1431-1433	2.2	16
139	On the interaction of compounds of chromium(VI) with hydrogen peroxide. A study of chromium(VI) and (V) peroxides in the acid-Basic pH range. <i>Inorganica Chimica Acta</i> , 2002 , 331, 16-24	2.7	16
138	Stability and Structural Properties of ZnS and ZnSe under High Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 223, 417-422	1.3	16
137	Electronic Structure of Interfaces. <i>Physica Scripta</i> , 1987 , T19A, 102-108	2.6	16
136	Equation of state and electronic properties of EuVO ₄ : A high-pressure experimental and computational study. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 1005-1016	5.7	15
135	High-pressure structural and vibrational properties of monazite-type BiPO ₄ , LaPO ₄ , CePO ₄ , and PrPO ₄ . <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 065401	1.8	15
134	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

133	Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type LiNiPO. <i>Inorganic Chemistry</i> , 2018 , 57, 10265-10276	5.1	15
132	High-pressure structural and elastic properties of Ti ₂ O ₃ . <i>Journal of Applied Physics</i> , 2014 , 116, 133521	2.5	15
131	Bond length compressibility in hard ReB ₂ investigated by x-ray absorption under high pressure. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 045701	1.8	15
130	Super-orbital variability of LS I +61 ⁺ B03 at TeV energies. <i>Astronomy and Astrophysics</i> , 2016 , 591, A76	5.1	15
129	Phase transition systematics in BiVO ₄ by means of high-pressure-high-temperature Raman experiments. <i>Physical Review B</i> , 2018 , 98,	3.3	15
128	Pressure-induced amorphization of YVO ₄ Eu ³⁺ nanoboxes. <i>Nanotechnology</i> , 2016 , 27, 025701	3.4	14
127	Characterization of the spin-1/2 linear-chain ferromagnet CuAs ₂ O ₄ . <i>Physical Review B</i> , 2014 , 89,	3.3	14
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