

Alain Polian

List of Publications by Year in descending order

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280
papers

9,671
citations

44042

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87
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289
all docs

289
docs citations

289
times ranked

7638
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic constants of gallium nitride. Journal of Applied Physics, 1996, 79, 3343-3344.	1.1	642
2	Raman scattering and x-ray-absorption spectroscopy in gallium nitride under high pressure. Physical Review B, 1992, 45, 83-89.	1.1	544
3	High-pressure Raman spectroscopy study of wurtzite ZnO. Physical Review B, 2002, 65, .	1.1	468
4	Pressure-induced coordination changes in crystalline and vitreous GeO ₂ . Physical Review Letters, 1989, 63, 398-401.	2.9	336
5	Elastic constants of boron nitride. Journal of Applied Physics, 1994, 76, 832-834.	1.1	298
6	Towards the Identification of the Dominant Donor in GaN. Physical Review Letters, 1995, 75, 296-299.	2.9	295
7	Local structure of condensed zinc oxide. Physical Review B, 2003, 68, .	1.1	249
8	High-pressure phase transition and phase diagram of gallium arsenide. Physical Review B, 1991, 44, 4214-4234.	1.1	172
9	Pressure-Induced Valence Tautomerism in Cobalto-Quinone Complexes: An X-ray Absorption Study of the Low-Spin [CoIII(3,5-DTBSQ)(3,5-DTBCat)(phen)] to High-Spin [CoII(3,5-DTBSQ)2(phen)] Interconversion. Inorganic Chemistry, 1996, 35, 2846-2852.	1.9	157
10	New High-Pressure Phase of H ₂ O: Ice X. Physical Review Letters, 1984, 52, 1312-1314.	2.9	152
11	Lattice Dynamics of Icosahedral β -Boron under Pressure. Physical Review Letters, 1997, 78, 693-696.	2.9	152
12	High Pressure Behavior of Silicon Clathrates: A New Class of Low Compressibility Materials. Physical Review Letters, 1999, 83, 5290-5293.	2.9	146
13	Brillouin scattering and three-body forces in argon at high pressures. Physical Review B, 1986, 33, 7192-7200.	1.1	134
14	Raman-scattering studies of aluminum nitride at high pressure. Physical Review B, 1993, 47, 2874-2877.	1.1	131
15	Elastic properties of α -SiO ₂ up to 2300 K from Brillouin scattering measurements. Europhysics Letters, 2002, 57, 375-381.	0.7	124
16	Dynamics of the Magnetic and Structural μ Phase Transition in Iron. Physical Review Letters, 2004, 93, 255503.	2.9	119
17	Two-dimensional pressure-induced electronic topological transition in BiTe ₂ . Physical Review Letters, 2011, 106, 117401.	1.1	117
18	Optical properties of gallium selenide under high pressure. Physical Review B, 1989, 40, 3837-3854.	1.1	105

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19	Room-temperature densification of α -SiO ₂ versus pressure. Physical Review B, 1990, 41, 6086-6087.	1.1	98
20	Elastic Properties and Density of Helium up to 20 GPa. Europhysics Letters, 1986, 2, 849-855.	0.7	92
21	Trapping of cubic ZnO nanocrystallites at ambient conditions. Applied Physics Letters, 2002, 81, 4820-4822.	1.5	86
22	Brillouin scattering from H ₂ O: Liquid, ice VI, and ice VII. Physical Review B, 1983, 27, 6409-6412.	1.1	83
23	Vibrational properties of delafossite CuGaO ₂ at ambient and high pressures. Physical Review B, 2005, 72, .	1.1	74
24	ZnTe at high pressure: X-ray-absorption spectroscopy and x-ray-diffraction studies. Physical Review B, 1993, 48, 8683-8693.	1.1	71
25	Optical properties of cubic boron nitride. Physical Review B, 1995, 52, 8854-8863.	1.1	71
26	Solid krypton: Equation of state and elastic properties. Physical Review B, 1989, 39, 1332-1336.	1.1	69
27	Complex high-pressure polymorphism of barium tungstate. Physical Review B, 2012, 86, .	1.1	66
28	Compression of scheelite-type SrMoO ₄ under quasi-hydrostatic conditions: Redefining the high-pressure structural sequence. Journal of Applied Physics, 2013, 113, .	1.1	66
29	Low-frequency lattice vibrations of \hat{I}^{\prime} -GaSe compared to \hat{I}^{μ} - and \hat{I}^{β} -polytypes. Solid State Communications, 1976, 19, 1079-1082.	0.9	65
30	X-ray absorption spectroscopy on solid krypton up to 20 GPa. Physical Review B, 1989, 39, 3369-3373.	1.1	64
31	Structural evolution of the CuGaO ₂ delafossite under high pressure. Physical Review B, 2004, 69, .	1.1	64
32	Six-fold-coordinated phosphorus by oxygen in AlPO ₄ quartz homeotype under high pressure. Nature Materials, 2007, 6, 698-702.	13.3	64
33	Phase transitions in wolframite-type CdWO_4 high pressure studied by Raman spectroscopy and density-functional theory. Physical Review B, 2009, 79, .	1.1	64
34	X-ray Absorption Spectroscopic Study of the Temperature and Pressure Dependence of the Electronic Spin States in Several Iron(II) and Cobalt(II) Tris(pyrazolyl)borate Complexes. Inorganic Chemistry, 1997, 36, 5580-5588.	1.9	62
35	Water as a Dense Icelike Component in Silicate Glasses. , 1998, 281, 396-398.		62
36	High pressure monoclinic phases of Sb ₂ Te ₃ . Physica B: Condensed Matter, 2012, 407, 3781-3789.	1.3	59

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37	Elastic properties of GaS under high pressure by Brillouin scattering. <i>Physical Review B</i> , 1982, 25, 2767-2775.	1.1	58
38	Pressure Control of Cuprophilic Interactions in a Luminescent Mechanochromic Copper Cluster. <i>Inorganic Chemistry</i> , 2015, 54, 9821-9825.	1.9	57
39	Optical studies of methane under high pressure. <i>Physical Review B</i> , 1987, 36, 9196-9201.	1.1	56
40	High-pressure EXAFS measurements of solid and liquid Kr. <i>Physical Review B</i> , 1996, 54, 9086-9098.	1.1	55
41	Pressure-induced spin-state crossovers at room temperature in iron(II) complexes: comparative analysis; a XANES investigation of some new transitions Dedicated to the memory of Professor Olivier Kahn.. <i>New Journal of Chemistry</i> , 2002, 26, 313-322.	1.4	55
42	Pressure-induced disappearance of the local rhombohedral distortion in BaTiO ₃ . <i>Europhysics Letters</i> , 2006, 74, 706-711.	0.7	55
43	Diffusionless $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:mi} > \hat{1}^3 < / \text{mml:mi} > < \text{mml:mo} > \hat{+}, < / \text{mml:mo} > < \text{mml:mi} > \hat{1} \pm < / \text{mml:mi} > < / \text{mml:math} > $ Phase Transition in Polycrystalline and Single-Crystal Cerium. <i>Physical Review Letters</i> , 2011, 106, 065701.	2.9	55
44	Structure Solution of the High-Pressure Phase of CuWO ₄ and Evolution of the Jahn-Teller Distortion. <i>Chemistry of Materials</i> , 2011, 23, 4220-4226.	3.2	55
45	Raman scattering study of wurtzite and rocksalt InN under high pressure. <i>Physical Review B</i> , 2006, 73, .	1.1	53
46	Brillouin scattering at high pressure: an overview. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 633-637.	1.2	52
47	High-pressure phase transition in gallium phosphide: An x-ray-absorption spectroscopy study. <i>Physical Review B</i> , 1989, 40, 9709-9714.	1.1	50
48	XMCD under pressure at the FeKedge on the energy-dispersive beamline of the ESRF. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 423-427.	1.0	50
49	High-Pressure Study of X-Ray Diffuse Scattering in Ferroelectric Perovskites. <i>Physical Review Letters</i> , 2007, 99, 117601.	2.9	49
50	Dielectric function in Cd _x Hg _{1-x} Te mixed crystals. <i>Physical Review B</i> , 1976, 13, 3558-3565.	1.1	48
51	Polyamorphic transition of germanium under pressure. <i>Physical Review B</i> , 2004, 69, .	1.1	48
52	Irreversible structural changes in vitreous B ₂ O ₃ under pressure. <i>Physical Review B</i> , 1996, 54, 152-155.	1.1	47
53	Ionic layered PbCl ₂ -type compounds under high pressure. <i>Physical Review B</i> , 1999, 59, 4011-4022.	1.1	47
54	Structural Studies of CuInS ₂ and CuInSe ₂ under High Pressure. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 198, 433-438.	0.7	46

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55	Complete determination of the elastic moduli of α -quartz under hydrostatic pressure up to 1 GPa: an ultrasonic study. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 436228.	0.7	46
56	Elastic constants of α -GeO ₂ . <i>Journal of Applied Physics</i> , 1998, 83, 3018-3020.	1.1	45
57	Luminescence mechanochromism of copper iodide clusters: a rational investigation. <i>Dalton Transactions</i> , 2019, 48, 7899-7909.	1.6	45
58	Pressure-Induced Spin-State Crossovers in Six-Coordinate Fe(II)(NCS) ₂ Complexes with L = NH_3 and L = H_2O : A XANES Investigation. <i>Inorganic Chemistry</i> , 1996, 35, 574-580.	1.9	44
59	Local disorder studied in SrTiO ₃ at low temperature by EXAFS spectroscopy. <i>Physical Review B</i> , 1994, 49, 12451-12456.	1.1	43
60	Sound velocities and refractive index of densified α -SiO ₂ to 25 GPa. <i>Physical Review B</i> , 1993, 47, 13979-13982.	1.1	42
61	Pressure-induced phase transitions in amorphous and metastable crystalline germanium by Raman scattering, x-ray spectroscopy, and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2009, 80, .	1.1	42
62	Water and the compressibility of silicate glasses: A Brillouin spectroscopic study. <i>American Mineralogist</i> , 2012, 97, 455-467.	0.9	39
63	Crystal structure of a new high pressure polymorph of GaS. <i>Solid State Communications</i> , 1982, 44, 853-855.	0.9	38
64	High-pressure behavior of Raman modes in CuGaS ₂ . <i>Physical Review B</i> , 1992, 46, 15092-15101.	1.1	38
65	X-ray absorption spectroscopy and x-ray magnetic circular dichroism simultaneous measurements under high pressure: the iron bcc \rightarrow hcp transition case. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S957-S966.	0.7	38
66	Pressure-induced amorphization and a possible polymorphism transition in nanosized TiO ₂ : An x-ray absorption spectroscopy study. <i>Physical Review B</i> , 2008, 77, .	1.1	37
67	High-pressure x-ray-absorption study of GaSe. <i>Physical Review B</i> , 2002, 65, .	1.1	36
68	Equation of state and phase transitions in AgGaS ₂ and AgGaSe ₂ . <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 481-484.	1.9	35
69	Cinnabar phase in ZnSe at high pressure. <i>Physical Review B</i> , 2001, 65, .	1.1	35
70	Refractive index determination in diamond anvil cells: Results for argon. <i>Journal of Applied Physics</i> , 1986, 60, 3479-3481.	1.1	34
71	III-V Semiconducting Nitrides: Physical Properties under Pressure. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 334.	0.8	34
72	Pressure induced amorphization of GeI ₄ molecular crystals. <i>Physical Review Letters</i> , 1994, 72, 2733-2736.	2.9	34

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73	X-ray absorption and diffraction spectroscopy of icosahedral Al-Cu-Fe quasicrystals under high pressure. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 855-866.	0.6	34
74	Bromine metallization studied by X-ray absorption spectroscopy. European Physical Journal B, 2000, 17, 227-233.	0.6	33
75	High-pressure and high-temperature x-ray absorption study of liquid and solid gallium. Physical Review B, 2001, 65, .	1.1	33
76	Phonon modes and stability of GaS up to 200 kilobars. Physical Review B, 1980, 22, 3049-3058.	1.1	32
77	Temperature-, Pressure- and Light-Induced Electronic Spin Conversions in Transition Metal Complexes. Molecular Crystals and Liquid Crystals, 1993, 234, 247-254.	0.3	32
78	Memory effects in pressure induced amorphous AlPO ₄ . Physical Review Letters, 1993, 71, 3143-3145.	2.9	32
79	Interplay between morphology and metallization in amorphous-amorphous transitions. Physical Review B, 2008, 78, .	1.1	31
80	Absence of abrupt pressure-induced magnetic transitions in magnetite. Physical Review B, 2010, 82, .	1.1	31
81	Vitreous Silica Distends in Helium Gas: Acoustic Versus Static Compressibilities. Physical Review Letters, 2012, 109, 245504.	2.9	31
82	Stability of icosahedral Al-Cu-Fe and two approximant phases under high pressure up to 35 GPa. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 72, 101-113.	0.6	30
83	Transverse effective charge and its pressure dependence in GaN single crystals. Physical Review B, 1999, 60, 1480-1483.	1.1	29
84	High-Pressure Raman Scattering of CaWO ₄ Up to 46.3 GPa: Evidence of a New High-Pressure Phase. Inorganic Chemistry, 2014, 53, 9729-9738.	1.9	29
85	X-ray-absorption spectroscopy on strontium titanate under high pressure. Physical Review B, 1990, 42, 8494-8498.	1.1	28
86	Raman scattering from cubic boron nitride up to 1600 K. Journal of Applied Physics, 1992, 72, 1955-1956.	1.1	28
87	Two magnon resonant Raman scattering in transition metal oxides. Journal of Magnetism and Magnetic Materials, 1978, 9, 83-85.	1.0	27
88	Brillouin study of liquid and solid ammonia up to 20 GPa. Solid State Communications, 1988, 68, 149-153.	0.9	27
89	Elastic properties of silicate melts up to 2350 K from Brillouin scattering. Geophysical Research Letters, 1996, 23, 423-426.	1.5	27
90	Poroelastic Theory Applied to the Adsorption-Induced Deformation of Vitreous Silica. Journal of Physical Chemistry B, 2014, 118, 14519-14525.	1.2	27

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91	Magnetic phase transitions in Fe ₇₂ Pt ₂₈ Invar compound studied by high-pressure X-ray magnetic circular dichroism and X-ray diffraction. <i>Europysics Letters</i> , 1999, 47, 378-383.	0.7	26
92	High-pressure elastic properties of gallium phosphide. <i>Physical Review B</i> , 1999, 60, 1468-1470.	1.1	26
93	Polymorphism in Strontium Tungstate SrWO ₄ under Quasi-Hydrostatic Compression. <i>Inorganic Chemistry</i> , 2016, 55, 10406-10414.	1.9	25
94	Synthesis of Bulk BC8 Silicon Allotrope by Direct Transformation and Reduced-Pressure Chemical Pathways. <i>Inorganic Chemistry</i> , 2016, 55, 8943-8950.	1.9	25
95	Optical-absorption edge of CsI up to 58 GPa. <i>Physical Review B</i> , 1984, 30, 2309-2311.	1.1	24
96	High pressure Raman spectra of β -form of l-glutamic acid. <i>Vibrational Spectroscopy</i> , 2012, 58, 181-187.	1.2	24
97	A variable coordination structure in II-VI semiconductors: The cinnabar phase. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 555-558.	1.9	23
98	X-ray diffraction measurements in icosahedral Al-Pd-Mn up to 40 GPa. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997, 75, 1677-1688.	0.7	23
99	X-ray-absorption fine-structure study of Zn _{1-x} Te _x alloys. <i>Journal of Applied Physics</i> , 2004, 96, 1491-1498.	1.1	23
100	High pressure x-ray absorption spectroscopy at lower energy in the dispersive mode: application to Ce and FePO ₄ . <i>Journal of Physics Condensed Matter</i> , 2005, 17, S883-S888.	0.7	23
101	β -boron at very high pressure: structural and vibrational properties. <i>Journal of Physics: Conference Series</i> , 2008, 121, 042017.	0.3	23
102	On the high-pressure phase transition in. <i>European Physical Journal B</i> , 1998, 1, 265-268.	0.6	22
103	Dispersive XAS at third-generation sources: strengths and limitations. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 146-148.	1.0	22
104	Polarized Raman spectroscopy of $v\alpha^2$ SiO ₂ under rare-gas compression. <i>Physical Review B</i> , 2016, 93, .	1.1	22
105	CuGa(SxSe1 - x) ₂ alloys at high pressure: Optical absorption and X-ray diffraction studies. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 507-516.	1.9	21
106	Phase relationships in mercury telluride under high temperature and pressure. <i>Journal of Physics and Chemistry of Solids</i> , 1995, 56, 525-530.	1.9	21
107	Experimental evidence of pressure-induced magnetic phase transition in Fe ₇₂ Pt ₂₈ Invar alloy. <i>Journal of Applied Physics</i> , 1998, 83, 7291-7293.	1.1	21
108	The low frequency phonons dynamics in supercooled LiCl, 6H ₂ O. <i>Journal of Chemical Physics</i> , 2009, 131, 124504.	1.2	21

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109	High-pressure Raman spectra of racemate dl-alanine crystals. <i>Vibrational Spectroscopy</i> , 2010, 54, 107-111.	1.2	21
110	Raman spectroscopy of monohydrated l-asparagine up to 30GPa. <i>Vibrational Spectroscopy</i> , 2015, 77, 35-39.	1.2	21
111	Elastic properties of BaTiO ₃ at high pressure. <i>Phase Transitions</i> , 1987, 9, 205-213.	0.6	20
112	Cations in glasses under ambient and non-ambient conditions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 97, 155-161.	0.6	20
113	Spatial distribution of electron concentration and strain in bulk GaN single crystals - relation to growth mechanism. <i>Materials Research Society Symposia Proceedings</i> , 1996, 449, 519.	0.1	20
114	Metal-Insulator Transition in GaN Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1996, 198, 223-233.	0.7	20
115	Prediction of cell variations with pressure of ionic layered crystal Application to the matlockite family. <i>European Physical Journal B</i> , 1999, 9, 49-57.	0.6	20
116	High-Pressure Structural Study of CuAlS ₂ and CuAlSe ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 1999, 211, 455-459.	0.7	20
117	Local environment of a diluted element under high pressure: Zn ^{1s} Mn _x O probed by fluorescence x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2006, 89, 231904.	1.5	20
118	Unveiling the electrochemical mechanisms of Li ₂ Fe(SO ₄) ₂ polymorphs by neutron diffraction and density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14509-14519.	1.3	20
119	X ray absorption spectroscopy investigation of phase transition in Ge, GaAs and GaP. <i>High Pressure Research</i> , 1990, 4, 309-311.	0.4	19
120	Elasticity of BaFCl single crystal under hydrostatic pressure. <i>European Physical Journal B</i> , 1998, 5, 7-13.	0.6	19
121	Hypersonic velocity measurement using Brillouin scattering technique. Application to water under high pressure and temperature. <i>Ultrasonics</i> , 2006, 44, e1495-e1498.	2.1	19
122	Experimental and theoretical investigation of the stability of the monoclinic BaWO ₄ phase at high pressure and high temperature. <i>Physical Review B</i> , 2010, 81, .	1.1	19
123	High pressure x-ray diffraction and extended x-ray absorption fine structure studies on ternary alloy Zn ^{1s} B _x Se. <i>Journal of Applied Physics</i> , 2010, 108, 083533.	1.1	19
124	Tuning of the stoichiometry of Fe _{1-x} by compression. <i>Physical Review B</i> , 2010, 81, .	1.1	19
125	Lattice relaxation in the highly-contrasted Zn ^{1s} B _x Se alloy: An extended x-ray absorption fine structure study. <i>Journal of Applied Physics</i> , 2010, 108, 083539.	1.1	18
126	Raman spectroscopy of B ₁₂ . <i>Physical Review B</i> , 2010, 81, .	1.1	18

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127	A combined XAS and XRD study of the high-pressure behaviour of GaAsO ₄ berlinite. Europhysics Letters, 1997, 40, 533-538.	0.7	17
128	High-pressure X-ray diffraction of icosahedral Al-Cu-Ru and Al-Pd-Re quasicrystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 115-128.	0.7	17
129	High-pressure ultrasonic setup using the Paris-Edinburgh press: Elastic properties of single crystalline germanium up to 6 GPa. Review of Scientific Instruments, 2003, 74, 3712-3716.	0.6	17
130	New pressure-induced phase transitions of l-threonine crystal: A Raman spectroscopic study. Journal of Molecular Structure, 2015, 1092, 160-165.	1.8	17
131	Pressure-induced phase transition of nanocrystalline ZnSe. Journal of Physics Condensed Matter, 2005, 17, 5187-5200.	0.7	16
132	Lattice Dynamics of α -Boron from ab-initio Calculation and Raman Scattering under High Pressure. Physica Status Solidi (B): Basic Research, 1996, 198, 115-119.	0.7	15
133	High Pressure X-Ray Absorption and Diffraction Study of InAs. High Pressure Research, 2002, 22, 331-335.	0.4	15
134	Unexpected value of transition pressure in the ionic layered BaF ₂ compound observed by Raman scattering. Physical Review B, 2002, 66, .	1.1	15
135	Observation of the high-pressure Pm3n phase in InAs: A combined X-ray absorption and diffraction study. Europhysics Letters, 2003, 61, 554-560.	0.7	15
136	High-pressure phase transformation of nanometric ZnSb prepared by mechanical alloying. Journal of Applied Physics, 2009, 106, 013509.	1.1	15
137	Bond length compressibility in hard ReB ₂ investigated by x-ray absorption under high pressure. Journal of Physics Condensed Matter, 2010, 22, 045701.	0.7	15
138	Brillouin scattering from GaS under hydrostatic pressure up to 17.5 GPa. Applied Physics Letters, 1981, 38, 334-336.	1.5	14
139	Physical properties of GaN and AlN under pressures up to 0.5 Mbar. Physica B: Condensed Matter, 1993, 185, 426-427.	1.3	14
140	Some scaling factors of physical properties dependent on phonons in the case of the families of the fluorite and of the matlockite. Journal of Physics and Chemistry of Solids, 1998, 59, 75-82.	1.9	14
141	High-pressure phase diagram of Zn _{1-x} Te _x alloys. Physical Review B, 2005, 71, .	1.1	14
142	Ti K Pre-Edge in SrTiO ₃ under Pressure: Experiments and Full-Potential First-Principles Calculations. AIP Conference Proceedings, 2007, , .	0.3	14
143	Structural and optical high-pressure study of spinel-type MnIn ₂ S ₄ . Physica Status Solidi (B): Basic Research, 2007, 244, 229-233.	0.7	14
144	Pressure cycling of InN to 20 GPa: In situ transport properties and amorphization. Applied Physics Letters, 2010, 97, 032105.	1.5	14

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145	XRD and XAS structural study of CuAlO ₂ under high pressure. Journal of Physics Condensed Matter, 2013, 25, 115406.	0.7	14
146	Sound velocity measurement by ultrasonic and Brillouin scattering techniques in compounds with matlockite structure. High Temperatures - High Pressures, 1998, 30, 235-240.	0.3	14
147	Phase transition and sound velocity measurements in very small solid samples under high pressure by Brillouin scattering. Journal of the Acoustical Society of America, 1989, 86, 2257-2260.	0.5	13
148	Pressure-induced distortion of the amorphous tetrahedral network in a-GaSb: Direct evidence from EXAFS. Physical Review B, 1996, 54, R14242-R14245.	1.1	13
149	Full-multiple-scattering calculations on HgTe under high pressure at the mercury L _{2,3} -x-ray-absorption edges. Physical Review B, 1997, 56, 5866-5875.	1.1	13
150	Icosahedral Ti-Zr-Ni and hydrogenated Ti-Zr-Ni quasicrystals under high pressure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 804-805.	2.6	13
151	Structure of crystalline and amorphous Ge probed by X-ray absorption and diffraction techniques. High Pressure Research, 2004, 24, 93-99.	0.4	13
152	Pressure Induced Phase Transitions in Amorphous Ge. Physica Scripta, 2005, , 381.	1.2	13
153	Sound velocity in aluminosilicate liquids determined up to 2550K from Brillouin spectroscopy: glass transition and crossover temperatures. Journal of Non-Crystalline Solids, 2005, 351, 61-68.	1.5	13
154	Watching a metal collapse: Examining cerium f ₃ f _± transformation using X-ray diffraction of compressed single and polycrystals. Acta Materialia, 2011, 59, 6007-6016.	3.8	13
155	Optical phonon modes in rhombohedral boron monosulfide under high pressure. Journal of Applied Physics, 2015, 117, .	1.1	13
156	Elastic constants of the layer compound GaS. Journal De Physique (Paris), Lettres, 1982, 43, 405-409.	2.8	13
157	Zinc telluride under high pressure: An x-ray absorption study. High Pressure Research, 1992, 10, 412-415.	0.4	12
158	Structural Studies of Bulk Amorphous GaSb under High Pressures. Physica Status Solidi (B): Basic Research, 1996, 198, 503-508.	0.7	12
159	High-pressure Raman scattering from GaPO ₄ . Solid State Communications, 2000, 114, 335-340.	0.9	12
160	Quartz as a pressure sensor in the infrared. High Pressure Research, 2005, 25, 97-105.	0.4	12
161	X-ray absorption spectroscopy on titanate perovskites at the Ti K edge. High Pressure Research, 2006, 26, 325-330.	0.4	12
162	Tetrahedral versus octahedral Mn site coordination in wurtzite and rocksalt Zn _{1-x} MnxO investigated by means of XAS experiments under high pressure. Superlattices and Microstructures, 2007, 42, 251-254.	1.4	12

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163	High-pressure study of the infrared active modes in wurtzite and rocksalt ZnO. <i>Physical Review B</i> , 2011, 84, .	1.1	12
164	Dynamical origin of anomalous temperature hardening of elastic modulus in vitreous silica. <i>Physical Review B</i> , 2011, 84, .	1.1	12
165	Structural and optical studies of FeSb ₂ under high pressure. <i>Physica B: Condensed Matter</i> , 2012, 407, 4686-4694.	1.3	12
166	Epsilon iron as a spin-smectic state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20280-20285.	3.3	12
167	On the Stiffness of Gold at the Nanoscale. <i>ACS Nano</i> , 2021, 15, 19128-19137.	7.3	12
168	Pressure-induced phase transition in icosahedral Al-Li-Cu quasicrystals. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1996, 74, 629-639.	0.7	11
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