Hydrostatic limits of 11 pressure transmitting media

Journal Physics D: Applied Physics

42, 075413

DOI: 10.1088/0022-3727/42/7/075413

Citation Report

#	Article	IF	Citations
1	Experimental and theoretical investigation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ThGeO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml: high pressure. Physical Review B, 2009, 80, .	1.1	40
2	Evaluations of pressure-transmitting media for cryogenic experiments with diamond anvil cell. Review of Scientific Instruments, 2009, 80, 123901.	0.6	162
3	The effect of temperature on the hydrostatic limit of 4:1 methanolâ€“ethanol under pressure. High Pressure Research, 2009, 29, 649-652.	0.4	31
4	X-ray diffraction study of the evolution of Fe-filled multiwalled carbon nanotubes under pressure. European Physical Journal B, 2009, 72, 145-151.	0.6	3
5	Pressure-induced superconducting state of antiferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CaFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Physical Review B, 2009, 80, .	1.1	58
6	High-pressure Raman and x-ray diffraction studies on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>LaB</mml:mtext></mml:mrow><mml:mn>6</mml:mn></mml:m Physical Review B, 2009, 80, .	1.1	16
7	Equation of state for gadolinium gallium garnet crystals: Experimental and computational study. Applied Physics Letters, 2009, 95, .	1.5	14
8	High-pressure stability and compressibility of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mrow><mml:mtext>PO</mml:mtext></mml:mrow><mml:mn	1.1	123
9	Revie Compressibility of synthetic glaucophane. Physics and Chemistry of Minerals, 2010, 37, 219-226.	0.3	9
10	Compressibility of nanocrystalline forsterite. Physics and Chemistry of Minerals, 2010, 37, 343-351.	0.3	11
11	High pressure equation of state studies using methanolâ€“ethanolâ€“water and argon as pressure media. Journal of Physics and Chemistry of Solids, 2010, 71, 1059-1064.	1.9	8
12	Study of monazite under high pressure. Solid State Communications, 2010, 150, 1845-1850.	0.9	33
13	High-pressure Raman spectra of racemate dl-alanine crystals. Vibrational Spectroscopy, 2010, 54, 107-111.	1.2	21
14	Pressure-induced phase transitions in stearic acid C form. Vibrational Spectroscopy, 2010, 54, 118-122.	1.2	18
15	Effects of deviatoric stresses in the diamond-anvil pressure cell on single-crystal samples. Journal of Applied Crystallography, 2010, 43, 743-751.	1.9	27
16	Elastic Properties of New Pressure-Transmitting Medium Daphne 7474 under High Pressure. Japanese Journal of Applied Physics, 2010, 49, 106702.	0.8	10
17	Comparing ruby fluorescence spectra at high pressure in between methanol-ethanol pressure transmitting medium and its deuteride. Journal of Physics: Conference Series, 2010, 215, 012177.	0.3	4
18	Trigonal field acting at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mtext>Cr</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mi>E</mml:mi><mml:mprescripts /><mml:none /><mml:mn>2</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>states in ruby from magneto-optical measur. Physical Review B, 2010, 81, .	1.1	6

#	Article	IF	Citations
19	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
20	Abnormal pressure-induced structural transformations of gallium nitride nanowires. Applied Physics Letters, 2010, 96, 151903.	1.5	10
21	Invited Article: High-pressure techniques for condensed matter physics at low temperature. Review of Scientific Instruments, 2010, 81, 041301.	0.6	43
22	Equation of state, stability, anisotropy and nonlinear elasticity of diamond-cubic (ZB) silicon by phonon imaging at high pressure. Physical Review B, 2010, 82, .	1.1	31
23	Influence of radiation damage on ruby as a pressure gauge. Physical Review B, 2010, 82, .	1.1	5
24	Simplified manual fabrication of cubic-zirconia gem anvils for extended energy-range spectroscopic studies to routine high pressures of 100â€“150 kbar (10â€“15 GPa). Review of Scientific Instruments, 2010, 81, 073903.	0.6	1
25	Single-crystal X-ray diffraction at megabar pressures and temperatures of thousands of degrees. High Pressure Research, 2010, 30, 620-633.	0.4	65
26	Compressional behavior of solid NeHe2up to 90 GPa. Journal of Physics Condensed Matter, 2010, 22, 095401.	0.7	7
27	Pressure-induced phase transition inBaCrO4. Physical Review B, 2010, 81, .	1.1	11
28	Structural compression and vibrational properties of Bi₁₂SiO₂₀sillenite from experiment and theory. Journal of Physics Condensed Matter, 2010, 22, 505401.	0.7	33
29	Structural study of LiB to 70 GPa. Physical Review B, 2010, 82, .	1.1	18
30	High-pressure structural study of fluoro-perovskite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CsCdF</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:	1.1	46
31	High-pressure x-ray diffraction andab initiostudy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Pd</mml:mtext></mml:mrow><mml:mn>2</mml:m. Physical Review B, 2010, 82, .	1.1	91
32	Appropriate pressure-transmitting media for cryogenic experiment in the diamond anvil cell up to 10 GPa. Journal of Physics: Conference Series, 2010, 215, 012178.	0.3	14
33	Temperature and pressure dependence of the Fe-specific phonon density of states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ba</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mo>(</mml:mo><mml:mrow Physical Review B, 2010, 81, .	1.1	18
34	High-pressure behavior of otavite (CdCO3). Journal of Alloys and Compounds, 2010, 508, 251-257.	2.8	28
35	Elasticity of diopside to 8GPa and 1073K and implications for the upper mantle. Physics of the Earth and Planetary Interiors, 2010, 183, 398-403.	0.7	44
36	Elastic and structural instability of cubic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Sn</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml: xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>C</mml:mtext><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mte Physical Review B, 2010, 82, .	1.1	26

#	Article	IF	Citations
37	Alanine at 13.6 GPa and its pressure-induced amorphisation at 15 GPa. CrystEngComm, 2011, 13, 5841.	1.3	48
38	High pressure modification of organic NLO materials: large conformational re-arrangement of 4-aminobenzophenone. CrystEngComm, 2011, 13, 6845.	1.3	15
39	Equilibrium and metastable phase transitions in silicon nitride at high pressure: A first-principles and experimental study. Physical Review B, 2011, 84, .	1.1	35
40	High-pressure Raman spectroscopy and lattice-dynamics calculations on scintillating MgWO<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>: Comparison	1.1	78
41	High-pressure study of substrate material ScAlMgO<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>. Physical Review B, 2011, 83, .	1.1	23
42	High-Pressure Crystallography. Topics in Current Chemistry, 2011, 315, 69-109.	4.0	15
43	Structure Solution of the High-Pressure Phase of CuWO₄ and Evolution of the Jahnâ€“Teller Distortion. Chemistry of Materials, 2011, 23, 4220-4226.	3.2	55
44	Bandwidth-driven nature of the pressure-induced metal state of LaMnO ₃. Europhysics Letters, 2011, 96, 36002.	0.7	28
45	Vibrational properties of RbNd(WO₄)₂: high pressure Raman study, structural and phonon calculations. Journal of Physics Condensed Matter, 2011, 23, 405901.	0.7	4
46	Structural study of relaxor ferroelectrics PbSc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Ta<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /></mml:msub></mml:math>	1.1	20
47	High-pressure phase transitions in BiFeO₃: hydrostatic versus non-hydrostatic conditions. Phase Transitions, 2011, 84, 474-482.	0.6	29
48	Compression Behaviors of Binary Skutterudite CoP3in Noble Gases up to 40 GPa at Room Temperature. Inorganic Chemistry, 2011, 50, 3281-3285.	1.9	9
49	Laboratory set-up for X-ray diffraction at high pressures. High Pressure Research, 2011, 31, 611-619.	0.4	2
50	Novel Pressure-Induced Structural Transformations of Inorganic Nanowires. , 0, , .		0
51	Compressibility of CaMnO₃: A study using a large-volume diffraction press. Powder Diffraction, 2011, 26, 262-266.	0.4	8
52	Structural and electronic evolution of Cr2O3 on compression to 55GPa. Journal of Solid State Chemistry, 2011, 184, 3040-3049.	1.4	27
53	Structural phase transition in vanadium at high pressure and high temperature: Influence of nonhydrostatic conditions. Physical Review B, 2011, 83, .	1.1	43
54	In situ high-pressure synchrotron x-ray diffraction study of CeVO<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>and TbVO<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>up to 50ÅGPa. Physical Review B, 2011, 84, .	1.1	62

#	Article	IF	Citations
55	Zircon to monazite phase transition in CeVO<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>: X-ray diffraction and Raman-scattering measurements. Physical Review B, 2011, 84, .	1.1	83
56	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 and ab initio calculations. Physical Review B, 2011, 83, .	1.1	54
57	Competing order parameters in the Pb(Zr<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 687 Td (xmlns:mml="http://www.w3.org/19	1.1	9
58	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml: Stress-induced proton disorder in hydrous ringwoodite. Physics and Chemistry of Minerals, 2011, 38, 65-73.	0.3	19
59	Raman study of apatite amorphised with swift heavy ions under various irradiation conditions. Physics and Chemistry of Minerals, 2011, 38, 293-303.	0.3	16
60	New insights into the high-pressure polymorphism of SiO2 cristobalite. Physics and Chemistry of Minerals, 2011, 38, 517-529.	0.3	60
61	Pressure responses of portlandite and Hâ€“D isotope effects on pressure-induced phase transitions. Physics and Chemistry of Minerals, 2011, 38, 777-785.	0.3	11
62	High pressure X-ray diffraction study on icosahedral boron arsenide (B12As2). Journal of Physics and Chemistry of Solids, 2011, 72, 144-146.	1.9	17
63	Equation of state of CAS phase to pressure of the uppermost lower mantle at ambient temperature. Science China Earth Sciences, 2011, 54, 1394-1399.	2.3	2
64	Vibrational spectroscopy of nitroaromatic self-assembled monolayers under extreme conditions. Chemical Physics Letters, 2011, 501, 369-374.	1.2	10
65	Synchrotron X-ray study of filled skutterudites CeFe4Sb12 and Ce0.8Fe3CoSb12. Physica B: Condensed Matter, 2011, 406, 52-55.	1.3	9
66	The Phonon Percolation Scheme for Alloys: Extension to the Entire Lattice Dynamics and Pressure Dependence. Japanese Journal of Applied Physics, 2011, 50, 05FE02.	0.8	1
67	Combined effects of pressure and Ru substitution on BaFe<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>As<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml: xmlns:mml="http://www.w3.org/1998/Math/MathML. Physical Review B, 2011, 84, .	1.1	51
68	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
69	High-pressure structural behavior of Â-Fe2O3 studied by single-crystal X-ray diffraction and synchrotron radiation up to 25 GPa. American Mineralogist, 2011, 96, 1781-1786.	0.9	19
70	Pressure-induced phase transition(s) in KMnF₃and the importance of the excess volume for phase transitions in perovskite structures. Journal of Physics Condensed Matter, 2011, 23, 485901.	0.7	10
71	Note: Achieving quasi-hydrostatic conditions in large-volume toroidal anvils for neutron scattering to pressures of up to 18 GPa. Review of Scientific Instruments, 2011, 82, 076101.	0.6	7
72	Magnetic Phase Diagrams of YVO₃ and TbVO₃ under High Pressure. Journal of the Physical Society of Japan, 2012, 81, 024715.	0.7	8

#	Article	IF	Citations
73	Phase transitions in KIO₃. Journal of Physics Condensed Matter, 2012, 24, 325401.	0.7	12
74	Exploring the high-pressure behavior of superhard tungsten tetraboride. Physical Review B, 2012, 85, .	1.1	90
75	Hydrostatic and chemical pressure tuning of CeFeAs<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>P<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>O single crystals. Physical Review B, 2012, 86, .	1.1	6
76	New high-pressure phase and equation of state of Ce2Zr2O8. Journal of Applied Physics, 2012, 111, .	1.1	23
77	Pressure effect and Mn doping in NaxCoO2. Journal of Applied Physics, 2012, 112, 053503.	1.1	4
78	Ruby pressure scale in a low-temperature diamond anvil cell. Journal of Applied Physics, 2012, 112, .	1.1	45
80	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. Physical Review B, 2012, 85, .	1.1	17
81	Structure and nuclear density distribution in the cheraliteâ€"CaTh(PO4)2: studies of its behaviour under high pressure (36ÂGPa). Physics and Chemistry of Minerals, 2012, 39, 685-692.	0.3	12
82	High-pressure behavior and equations of state of the cobaltates YBaCo4O7, <mml:math altimg="si0032.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.4	4
83	The high-pressure behavior of micas: Vibrational spectra of muscovite, biotite, and phlogopite to 30 GPa. American Mineralogist, 2012, 97, 241-252.	0.9	18
84	High-Pressure Investigation of Li₂MnSiO₄ and Li₂CoSiO₄ Electrode Materials for Lithium-Ion Batteries. Inorganic Chemistry, 2012, 51, 5779-5786.	1.9	34
85	First-order character of the displacive structural transition in BaWO 4. Chinese Physics B, 2012, 21, 086201.	0.7	1
86	Structural properties of PbVO₃perovskites under hydrostatic pressure conditions up to 10.6 GPa. Journal of Physics Condensed Matter, 2012, 24, 435403.	0.7	16
87	High-pressure Raman scattering and an anharmonicity study of multiferroic wolframite-type Mn_{0.97}Fe_{0.03}WO₄. Journal of Physics Condensed Matter, 2012, 24, 345403.	0.7	13
88	Pressure-induced phase transition study of magnesiochromite (MgCr2O4) by Raman spectroscopy and X-ray diffraction. Physics of the Earth and Planetary Interiors, 2012, 196-197, 75-82.	0.7	50
89	Phase transitions of pure and Ba-doped BiFeO3 under high pressure. Solid State Communications, 2012, 152, 1613-1617.	0.9	12
90	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
92	Compressibility of Nanocrystalline TiO₂ Anatase. Journal of Physical Chemistry C, 2012, 116, 21635-21639.	1.5	37
93	Freezing of glycerolâ€“water mixtures under pressure. Journal of Physics Condensed Matter, 2012, 24, 325103.	0.7	32
94	Equation of state and phase diagram of Feâ€“16Si alloy as a candidate component of Earth's core. Earth and Planetary Science Letters, 2012, 357-358, 268-276.	1.8	55
95	Thermal and Electronic Properties of Rare Earth Compounds at High Pressure. Fundamental Theories of Physics, 2012, , 1-164.	0.1	8
96	Progressive transformations of silica glass upon densification. Journal of Chemical Physics, 2012, 137, 124505.	1.2	51
97	Complex high-pressure polymorphism of barium tungstate. Physical Review B, 2012, 86, .	1.1	66
98	High pressure X-ray diffraction study on BaWO₄-II. High Pressure Research, 0, , 1-8.	0.4	3
99	Titanium Alloys at Extreme Pressure Conditions. , 0, , .		4
100	HgO at high pressures: the transition to the NaCl structure (HgO-III) and the equation of state of tetragonal HgO-II. Physics and Chemistry of Minerals, 2012, 39, 269-275.	0.3	3
101	Response behavior of ZrO2 under swift heavy ion irradiation with and without external pressure. Nuclear Instruments & Methods in Physics Research B, 2012, 277, 45-52.	0.6	37
102	High pressure Raman spectra of Î²-form of l-glutamic acid. Vibrational Spectroscopy, 2012, 58, 181-187.	1.2	24
103	Pressureâ€induced phase transitions in palmitic acid: C form. Journal of Raman Spectroscopy, 2012, 43, 146-152.	1.2	17
104	Solid solutions between lead fluorapatite and lead fluorvanadate apatite: compressibility determined by using a diamond-anvil cell coupled with synchrotron X-ray diffraction. Physics and Chemistry of Minerals, 2012, 39, 219-226.	0.3	16
105	Lattice Dynamics Study of HgGa₂Se₄ at High Pressures. Journal of Physical Chemistry C, 2013, 117, 15773-15781.	1.5	21
106	Raman spectroscopy of graphene at high pressure: Effects of the substrate and the pressure transmitting media. Physical Review B, 2013, 88, .	1.1	56
107	High-pressure behavior of FeOCl. Physical Review B, 2013, 88, .	1.1	13
108	Effects of pressure on PbWO4-III. Physics and Chemistry of Minerals, 2013, 40, 341-348.	0.3	2
109	Expansivity and compressibility of strontium fluorapatite and barium fluorapatite determined by in situ X-ray diffraction at high-T/P conditions: significance of the M-site cations. Physics and Chemistry of Minerals, 2013, 40, 349-360.	0.3	13

#	Article	IF	Citations
110	Equation of state of CaMnO3: a combined experimental and computational study. Applied Physics A: Materials Science and Processing, 2013, 112, 839-845.	1.1	12
111	Phase transition and possible metallization in CeVO4 under pressure. Journal of Solid State Chemistry, 2013, 203, 273-280.	1.4	37
112	Self-consistent pressure scales based on the equations of state for ruby, diamond, MgO, B2â€“NaCl, as well as Au, Pt, and other metals to 4 Mbar and 3000 K. Russian Geology and Geophysics, 2013, 54, 181-199.	0.3	71
113	Pressure-induced phase transitions in LnTe (Ln=La, Gd, Ho, Yb) and AmTe. Journal of Physics Condensed Matter, 2013, 25, 265401.	0.7	3
114	X-ray diffraction study on pressure-induced phase transformations and the equation of state of ZnGa2Te4. Journal of Applied Physics, 2013, 114, .	1.1	37
115	High pressure single-crystal micro X-ray diffraction analysis with GSE_ADA/RSV software. High Pressure Research, 2013, 33, 466-484.	0.4	133
116	Ruby fluorescence pressure scale: Revisited. Chinese Physics B, 2013, 22, 056201.	0.7	13
117	Highâ€Pressure Behavior and Phase Stability of <scp><scp>Al</scp></scp>₅<scp><scp>BO</scp></scp>₉, a Mulliteâ€Type Ceramic Material. Journal of the American Ceramic Society, 2013, 96, 2583-2592.	1.9	21
118	High pressure powder X-ray diffraction of sillenites Bi12MO20 (M=Si, Ge, Ti) and Bi4Ti3O12. Journal of Solid State Chemistry, 2013, 208, 35-42.	1.4	7
119	High-Pressure Optical Microspectroscopy Study on Single-Walled Carbon Nanotubes Encapsulating C60. Journal of Physical Chemistry C, 2013, 117, 21995-22001.	1.5	14
120	High-pressure structural transformations of Sn up to 138 GPa: Angle-dispersive synchrotron x-ray diffraction study. Physical Review B, 2013, 88, .	1.1	54
121	High-pressure resistivity technique for quasi-hydrostatic compression experiments. Review of Scientific Instruments, 2013, 84, 063903.	0.6	15
122	Structural study of Î±-Bi₂O₃under pressure. Journal of Physics Condensed Matter, 2013, 25, 475402.	0.7	42
123	Giant negative linear compressibility in zincÂdicyanoaurate. Nature Materials, 2013, 12, 212-216.	13.3	217
124	Crystal size effect on the compressibility of nano-crystalline uranium dioxide. Journal of Nuclear Materials, 2013, 435, 123-127.	1.3	23
125	On the crystal structure and compressional behavior of talc: a mineral of interest in petrology and material science. Physics and Chemistry of Minerals, 2013, 40, 145-156.	0.3	32
126	High-pressure polymorphs of TbVO4: A Raman and ab initio study. Journal of Alloys and Compounds, 2013, 577, 327-335.	2.8	45
127	Chemically induced renormalization phenomena in Pb-based relaxor ferroelectrics under high pressure. Journal of Physics Condensed Matter, 2013, 25, 115403.	0.7	10

#	Article	IF	Citations
128	A compact device for loading diamond anvil cells with low-boiling pressure-transmitting media. Journal of Applied Crystallography, 2013, 46, 267-269.	1.9	10
129	Pressure-Induced Transformations in PrVO₄ and SmVO₄ and Isolation of High-Pressure Metastable Phases. Inorganic Chemistry, 2013, 52, 5464-5469.	1.9	60
130	Phase Behavior of Ag₂CrO₄ under Compression: Structural, Vibrational, and Optical Properties. Journal of Physical Chemistry C, 2013, 117, 12239-12248.	1.5	23
131	Pressure-induced phase transitions in sodium europium carbonate (Na₃Eu(CO₃)₃) and europium-doped yttrium sesquioxide (Y₂O₃:Eu³⁺) by time-resolved laser fluorescence spectroscopy. High Pressure Research, 2013, 33, 652-662.	0.4	1
132	Influence of grain size, surface energy, and deviatoric stress on the pressure-induced phase transition of ZnO and AlN. High Pressure Research, 2013, 33, 642-651.	0.4	18
133	New Polymorph of InVO₄: A High-Pressure Structure with Six-Coordinated Vanadium. Inorganic Chemistry, 2013, 52, 12790-12798.	1.9	63
134	Pressure-induced structural transformations in advanced ferroelectrics with relaxor behaviour. High Pressure Research, 2013, 33, 595-606.	0.4	8
135	Structural Phase Transitions on AgCuS Stromeyerite Mineral under Compression. Inorganic Chemistry, 2013, 52, 355-361.	1.9	26
136	Measuring Structural Inhomogeneity of Conjugated Polymer at High Pressures up to 30 GPa. Macromolecules, 2013, 46, 8284-8288.	2.2	12
137	Infrared and Terahertz Spectroscopy of Strongly Correlated Electron Systems under Extreme Conditions. Journal of the Physical Society of Japan, 2013, 82, 021004.	0.7	32
138	Pressure Suppression of Spin-Density-Wave Gap in the Optical Conductivity of SrFe₂As₂. Journal of the Physical Society of Japan, 2013, 82, 074720.	0.7	4
139	High pressure tuning of whispering gallery mode resonances in a neodymium-doped glass microsphere. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3254.	0.9	18
140	Pressure-induced structural transformations in the low-cristobalite form of AlPO4. American Mineralogist, 2013, 98, 285-291.	0.9	9
141	Compression and structure of brucite to 31 GPa from synchrotron X-ray diffraction and infrared spectroscopy studies. American Mineralogist, 2013, 98, 33-40.	0.9	16
142	Permanent densification of compressed silica glass: a Raman-density calibration curve. Journal of Physics Condensed Matter, 2013, 25, 025402.	0.7	70
143	The new Material Science Powder Diffraction beamline at ALBA Synchrotron. Powder Diffraction, 2013, 28, S360-S370.	0.4	307
144	Single-crystal diffraction at the Extreme Conditions beamline P02.2: procedure for collecting and analyzing high-pressure single-crystal data. Journal of Synchrotron Radiation, 2013, 20, 711-720.	1.0	67
145	Effect of laser annealing of pressure gradients in a diamond-anvil cell using common solid pressure media. Review of Scientific Instruments, 2013, 84, 103904.	0.6	17

#	Article	IF	Citations
146	High-pressure effects on single crystals of electron-doped Pr2â^'xCexCuO4. Physical Review B, 2013, 87, .	1.1	17
147	Search for pressure-induced quantum criticality in YbFe2Zn20. Physical Review B, 2013, 88, .	1.1	10
148	Role of the pressure transmitting medium on the pressure effects in DWCNTs. Physica Status Solidi (B): Basic Research, 2013, 250, 2616-2621.	0.7	11
149	Compression of scheelite-type SrMoO4 under quasi-hydrostatic conditions: Redefining the high-pressure structural sequence. Journal of Applied Physics, 2013, 113, .	1.1	66
150	In situ Brillouin study of sodium alumino silicate glasses under pressure. Journal of Chemical Physics, 2013, 139, 074501.	1.2	26
151	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. Journal of Applied Physics, 2013, 113, .	1.1	28
152	The Sm:YAG primary fluorescence pressure scale. Journal of Geophysical Research: Solid Earth, 2013, 118, 5805-5813.	1.4	35
153	Singleâ€crystal equation of state of phase D to lower mantle pressures and the effect of hydration on the buoyancy of deep subducted slabs. Journal of Geophysical Research: Solid Earth, 2013, 118, 6124-6133.	1.4	17
154	Quasi-hydrostatic Limit of LiF as a Pressure Transmitting Medium and Its Equation of States. Chinese Physics Letters, 2014, 31, 056201.	1.3	4
155	Experimental and theoretical investigation on the compression mechanism of FeF₃up to 62.0â€…GPa. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 801-808.	0.5	7
156	Neutron diffraction studies on â€œsimpleâ€•iron oxides under pressure: Fe3O4, Î±-Fe2O3, and FeO. Science Bulletin, 2014, 59, 5241-5250.	1.7	3
157	High pressure neutron and X-ray diffraction at low temperatures. Zeitschrift Fur Kristallographie - Crystalline Materials, 2014, 229, .	0.4	7
158	High-pressure structural and elastic properties of Tl2O3. Journal of Applied Physics, 2014, 116, .	1.1	20
159	Controlled formation of metastable germanium polymorphs. Physical Review B, 2014, 89, .	1.1	43
160	Deviatoric stress-induced phase transitions in diamantane. Journal of Chemical Physics, 2014, 141, 154305.	1.2	9
161	Poroelastic Theory Applied to the Adsorption-Induced Deformation of Vitreous Silica. Journal of Physical Chemistry B, 2014, 118, 14519-14525.	1.2	27
162	Room-temperature vibrational properties of multiferroic MnWO4 under quasi-hydrostatic compression up to 39â€‰GPa. Journal of Applied Physics, 2014, 115, 043510.	1.1	22
163	Structural and Vibrational Study of Pseudocubic CdIn₂Se₄ under Compression. Journal of Physical Chemistry C, 2014, 118, 26987-26999.	1.5	7

#	Article	IF	Citations
164	High Pressure Behavior of 7:4 Mullite and Boronâ€Substituted Mullite: Compressibility and Mechanisms of Amorphization. Journal of the American Ceramic Society, 2014, 97, 2980-2989.	1.9	3
165	Structural investigation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Np</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Co</mml:mi><mml:mn>17</mml:mn></mml:msub></mml:math>and analogue compounds under pressure. Physical Review B, 2014, 90, .	1.1	1
166	Phase stability of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrMn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>hexagonal perovskite system at high pressure and temperature. Physical Review B, 2014, 90, .	1.1	29
167	Reinvestigation of high pressure polymorphism in hafnium metal. Journal of Applied Physics, 2014, 115, 233513.	1.1	22
168	Pressure-induced phase transition and superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">YBa</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">Cu</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	1.1	13
169	Comment on â€œHigh-pressure x-ray diffraction study of YBO3/Eu3+, GdBO3, and EuBO3: Pressure-induced amorphization in GdBO3â€•[J. Appl. Phys. 115, 043507 (2014)]. Journal of Applied Physics, 2014, 115, .	1.1	136
170	High-pressure single-crystal elasticity study of CO2 across phase I-III transition. Applied Physics Letters, 2014, 104, .	1.5	7
171	Structure and compressibility of the high-pressure molecular phase II of carbon dioxide. Physical Review B, 2014, 89, .	1.1	23
172	High-pressure structural behaviour of HoVO₄: combined XRD experiments andab initiocalculations. Journal of Physics Condensed Matter, 2014, 26, 265402.	0.7	58
173	Pressure-induced phase transitions in coesite. American Mineralogist, 2014, 99, 755-763.	0.9	16
174	Pressure-induced phase transformations in mineral chalcocite, Cu2S, under hydrostatic conditions. Journal of Alloys and Compounds, 2014, 610, 645-650.	2.8	15
175	In situ high-pressure synchrotron X-ray diffraction study of the structural stability in NdVO4 and LaVO4. Materials Research Bulletin, 2014, 50, 279-284.	2.7	60
176	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. Journal of Alloys and Compounds, 2014, 583, 70-78.	2.8	32
177	The strength of ruby from X-ray diffraction under non-hydrostatic compression to 68ÂGPa. Physics and Chemistry of Minerals, 2014, 41, 527-535.	0.3	10
178	Zeolites at high pressure: A review. Mineralogical Magazine, 2014, 78, 267-291.	0.6	88
179	The pressure-induced phase transition studies of In2S3 and In2S3:Ce nanoparticles. Journal of Solid State Chemistry, 2014, 210, 150-154.	1.4	10
180	In situ synchrotron X-ray diffraction in the laser-heated diamond anvil cell: Melting phenomena and synthesis of new materials. Coordination Chemistry Reviews, 2014, 277-278, 15-30.	9.5	37
181	Effect of pressure on methylated glycine derivatives: relative roles of hydrogen bonds and steric repulsion of methyl groups. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2014, 70, 517-532.	0.5	11

#	Article	IF	Citations
182	Electronic Properties and Metrology Applications of the Diamond<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>NV</mml:mi></mml:mrow><mml:mrow><mml:mo>â^'</mml:mo></m under Pressure. Physical Review Letters, 2014, 112, 047601.	2.9	302
183	Compressibility and Structural Stability of Nanocrystalline TiO₂ Anatase Synthesized from Freeze-Dried Precursors. Inorganic Chemistry, 2014, 53, 11598-11603.	1.9	28
184	Optical Microspectroscopy Study of the Mechanical Stability of Empty and Filled Carbon Nanotubes under Hydrostatic Pressure. Journal of Physical Chemistry C, 2014, 118, 27048-27062.	1.5	13
185	Pressure transmitting medium-dependent structure stability of nanoanatase TiO₂under high pressure. High Pressure Research, 2014, 34, 259-265.	0.4	7
186	High-Pressure Phase Transition of Coffinite, USiO₄. Journal of Physical Chemistry C, 2014, 118, 25141-25149.	1.5	14
187	Direct parameterization of the pressure-dependent volume by using an inverted approximate Vinet equation of state. Journal of Applied Crystallography, 2014, 47, 384-390.	1.9	2
188	High-Pressure Vibrational and Polymorphic Response of 1,1-Diamino-2,2-dinitroethene Single Crystals: Raman Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 5002-5012.	1.1	37
189	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
190	Compression of lithium fluoride to 92ÂGPa. High Pressure Research, 2014, 34, 39-48.	0.4	26
191	Pure Hexagonal Phase of EuF₃ Modulated by High Pressure. Journal of Physical Chemistry C, 2014, 118, 7562-7568.	1.5	12
192	X-ray diffraction studies of Sr3Cr2O8 and Ba3Cr2O8 at high pressures. Solid State Communications, 2014, 200, 5-8.	0.9	2
193	Compressibility and pressure-induced disorder in superconducting phase-separated<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Cs</mml:mn></mml:mrow><mml:mrow xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Fe</mml:mn></mml:mrow><mml:mrow xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mn>Se</mml:m. Physical Review B, 2014, 89, .	1.1	11
194	Intermolecular Stabilization of 3,3â€²-Diamino-4,4â€²-azoxyfurazan (DAAF) Compressed to 20 GPa. Journal of Physical Chemistry A, 2014, 118, 5969-5982.	1.1	25
195	Modeling graphite under stress: Equations of state, vibrational modes, and interlayer friction. Physical Review B, 2014, 90, .	1.1	7
196	Structure of organic solids at low temperature and high pressure. Chemical Society Reviews, 2014, 43, 4300-4311.	18.7	49
197	Structural and Vibrational Properties of CdAl₂S₄ under High Pressure: Experimental and Theoretical Approach. Journal of Physical Chemistry C, 2014, 118, 15363-15374.	1.5	8
198	High-Pressure Raman Study of [2.2]Paracyclophane. Journal of Physical Chemistry C, 2014, 118, 16028-16034.	1.5	7
199	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

#	Article	IF	Citations
200	Quasi-hydrostatic X-ray powder diffraction study of the low- and high-pressure phases of CaWO4 up to 28ÂGPa. Solid State Sciences, 2014, 36, 16-23.	1.5	18
201	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. Journal of Physical Chemistry C, 2014, 118, 13177-13185.	1.5	33
202	Effect of pressure on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>La</mml:mtext><mml:mn>2</mml:mn></mml:msub><mml:mi>(</mml:mi><mml:msub><mml:mtext>WO</mml:mtext><mml:mn>4</mml:mn></mml:msub><mml:mi>)</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>with a modulated scheelite-type structure. Physical Review B, 2014, 89, .	1.1	9
203	High pressure Raman spectroscopic study of phase transformation in TaO2F. Vibrational Spectroscopy, 2014, 71, 12-17.	1.2	6
204	Pressure-dependent structure of the null-scattering alloy Ti_{0.676}Zr_{0.324}. High Pressure Research, 2015, 35, 239-246.	0.4	7
205	Thermal transport across high-pressure semiconductor-metal transition in Si and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Si</mml:mi><mml:mrow><mml:mn>0.991</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Ge</mml:mi><mml:mrow><mml:mn>0.009</mml:mn></mml:mrow></mml:msub></mml:math>.	1.1	28
206	Pressure-induced cation-cation bonding in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">V</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>. Physical Review B, 2015, 92, .	1.1	17
207	In situspectroscopic study of the plastic deformation of amorphous silicon under nonhydrostatic conditions induced by indentation. Physical Review B, 2015, 92, .	1.1	25
208	Temperature and high-pressure dependent x-ray absorption of SmNiO₃at the Ni K and Sm L₃edges. Materials Research Express, 2015, 2, 126301.	0.8	9
209	X-Ray Diffraction at Extreme Conditions: Today and Tomorrow. , 2015, , 255-313.		1
210	Solidification and loss of hydrostaticity in liquid media used for pressure measurements. Review of Scientific Instruments, 2015, 86, 123904.	0.6	58
211	Sub-Kelvin magnetic and electrical measurements in a diamond anvil cell with in situ tunability. Review of Scientific Instruments, 2015, 86, 093901.	0.6	7
212	The high pressure structure and equation of state of 2,6-diamino-3,5-dinitropyrazine-1-oxide (LLM-105) up to 20 GPa: X-ray diffraction measurements and first principles molecular dynamics simulations. Journal of Chemical Physics, 2015, 143, 144506.	1.2	36
213	Thermal conductivity of methanol-ethanol mixture and silicone oil at high pressures. Journal of Applied Physics, 2015, 117, .	1.1	29
214	Pressure-Induced Amorphization of Small Pore Zeolitesâ€"the Role of Cation-H2O Topology and Anti-glass Formation. Scientific Reports, 2015, 5, 15056.	1.6	7
215	Using stepped anvils to make even insulation layers in laser-heated diamond-anvil cell samples. Review of Scientific Instruments, 2015, 86, 095103.	0.6	9
217	Locating Gases in Porous Materials: Cryogenic Loading of Fuelâ€Related Gases Into a Scâ€based Metalâ€"Organic Framework under Extreme Pressures. Angewandte Chemie - International Edition, 2015, 54, 13332-13336.	7.2	24
218	Exploring the properties of MTO₄ compounds using highâ€pressure powder xâ€ray diffraction. Crystal Research and Technology, 2015, 50, 729-736.	0.6	45

#	Article	IF	Citations
219	Pressure-induced phase transition and dissociation of PbMoO4. Physica Status Solidi (B): Basic Research, 2015, 252, 2215-2221.	0.7	3
220	Pressure-induced oversaturation and phase transition in zeolitic imidazolate frameworks with remarkable mechanical stability. Dalton Transactions, 2015, 44, 4498-4503.	1.6	32
221	Mechanism of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mo>â^'</mml:mo><mml:mi>Ï‰</mml:mi></mml:mrow></mml:math> transformation in iron. Physical Review B, 2015, 91, .	1.1	50
222	The use of 13C diamond as pressure and temperature sensor for diamond-anvil-cell experiments. European Journal of Mineralogy, 2015, 27, 365-375.	0.4	5
223	Synthesis and High-Pressure Study of Corundum-Type In₂O₃. Journal of Physical Chemistry C, 2015, 119, 29076-29087.	1.5	23
224	Experimental and theoretical study ofÎ±â€“Eu₂(MoO₄)₃under compression. Journal of Physics Condensed Matter, 2015, 27, 465401.	0.7	5
225	Crystal behavior of potassium bromate under compression. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 798-804.	0.5	3
226	Isostructural Phase Transition in Bismuth Oxide Chloride Induced by Redistribution of Charge under High Pressure. Journal of Physical Chemistry C, 2015, 119, 27657-27665.	1.5	24
227	Single Molecules under High Pressure. Journal of Physical Chemistry C, 2015, 119, 6373-6381.	1.5	16
228	In-situ Raman and Brillouin light scattering study of the international simple glass in response to temperature and pressure. Journal of Non-Crystalline Solids, 2015, 411, 101-105.	1.5	30
229	Permanently densified SiO₂glasses: a structural approach. Journal of Physics Condensed Matter, 2015, 27, 325401.	0.7	36
230	Elasticity of superhydrous phase B, seismic anomalies in cold slabs and implications for deep water transport. Physics of the Earth and Planetary Interiors, 2015, 243, 30-43.	0.7	12
231	High-pressure structural anomalies and electronic transitions in the topological Kondo insulator SmB ₆. Europhysics Letters, 2015, 110, 66002.	0.7	9
232	High pressure phase transitions in scheelite structured fluoride: ErLiF4. Journal of Solid State Chemistry, 2015, 229, 164-172.	1.4	6
233	Equation of state and electronic properties of EuVO4: A high-pressure experimental and computational study. Journal of Alloys and Compounds, 2015, 648, 1005-1016.	2.8	17
234	Compressibility of Irâ€“Os alloys under high pressure. Journal of Alloys and Compounds, 2015, 622, 155-161.	2.8	14
235	Elastic Moduli of Permanently Densified Silica Glasses. Scientific Reports, 2014, 4, 7193.	1.6	78
236	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

#	Article	IF	Citations
237	New pressure-induced phase transitions of l-threonine crystal: A Raman spectroscopic study. Journal of Molecular Structure, 2015, 1092, 160-165.	1.8	17
238	High-pressure structural phase transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MnWO</mml:mi><mml:mn>4</mml:mn></mml:msub></ Physical Review B, 2015, 91, .	1.1	16
239	Equation of state of a synthetic ulvÃ¶spinel, (Fe1.94Ti0.03)Ti1.00O4.00, at ambient temperature. Physics and Chemistry of Minerals, 2015, 42, 171-177.	0.3	9
240	High-pressure phase transitions and compressibilities of aragonite-structure carbonates: SrCO3 and BaCO3. Physics and Chemistry of Minerals, 2015, 42, 517-527.	0.3	33
241	Compressibilities of MnFe2O4 polymorphs. Physics and Chemistry of Minerals, 2015, 42, 569-577.	0.3	11
242	High pressure induced charge transfer in 3dâ€“4f bimetallic photomagnetic materials. Chemical Communications, 2015, 51, 8868-8871.	2.2	13
243	Revised calibration of the Sm:SrB4O7 pressure sensor using the Sm-doped yttrium-aluminum garnet primary pressure scale. Journal of Applied Physics, 2015, 117, .	1.1	36
244	High-pressure single crystal X-ray diffraction study of the linear metal chain compound Co₃(dpa)₄Br₂Â·CH₂Cl₂. Dalton Transactions, 2015, 44, 9038-9043.	1.6	12
245	Room-temperature vibrational properties of potassium gadolinium double tungstate under compression up to 32GPa. Journal of Alloys and Compounds, 2015, 638, 14-20.	2.8	20
246	Interface partition coefficients of trace elements in carbonateâ€“silicate parental media for diamonds and paragenetic inclusions (experiments at 7.0â€“8.5 GPa). Russian Geology and Geophysics, 2015, 56, 221-231.	0.3	7
247	Thermal evolution of the metastable r8 and bc8 polymorphsÂofÂsilicon. High Pressure Research, 2015, 35, 99-116.	0.4	26
248	Structural, elastic and vibrational properties of nanocrystalline lutetium gallium garnet under high pressure. Physical Chemistry Chemical Physics, 2015, 17, 9454-9464.	1.3	17
249	High pressure investigation of superconducting signatures in CeCu2Si2: ac-magnetic susceptibility, ac-heat capacity, resistivity and thermopower. Solid State Communications, 2015, 209-210, 55-58.	0.9	4
250	High-pressure powder x-ray diffraction study of EuVO4. Journal of Solid State Chemistry, 2015, 226, 147-153.	1.4	41
251	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
252	Pressure-temperature phase diagram of multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuTiO</mml:mi><mml:mn>3</mml:mn></mml:msub><m Physical Review B, 2015, 92, .	1.1	9
253	Equations of state of anhydrous AlF3 and AlI3: Modeling of extreme condition halide chemistry. Journal of Chemical Physics, 2015, 142, 214506.	1.2	6
254	Cobalt ferrite nanoparticles under high pressure. Journal of Applied Physics, 2015, 118, .	1.1	44

#	Article	IF	Citations
255	Structure and stability of monazite- and zircon-type LaVO4 under hydrostatic pressure. Optical Materials, 2015, 49, 32-38.	1.7	29
256	Diamond thermoelastic properties and implications for determining the pressure of formation of diamondâ€“inclusion systems. Russian Geology and Geophysics, 2015, 56, 211-220.	0.3	54
257	High-pressure and high-temperature synthesis of rhenium carbide using rhenium and nanoscale amorphous two-dimensional carbon nitride. Cogent Physics, 2015, 2, 1076702.	0.7	9
258	Future directions in high-pressure neutron diffraction. Journal of Physics Condensed Matter, 2015, 27, 153201.	0.7	28
259	Kinetic Control of High-Pressure Solid-State Phase Transitions: A Case Study on <scp>l</scp>-Serine. Journal of Physical Chemistry C, 2015, 119, 18611-18617.	1.5	48
260	Pressure-induced stiffness of Au nanoparticles to 71â€‰GPa under quasi-hydrostatic loading. Journal of Physics Condensed Matter, 2015, 27, 485303.	0.7	14
261	Elastic behavior and pressure-induced structural modifications of the microporous Ca(VO)Si4O10Â·4H2O dimorphs cavansite and pentagonite. Microporous and Mesoporous Materials, 2015, 204, 257-268.	2.2	4
262	High-pressure transformation in the cobalt spinel ferrites. Journal of Solid State Chemistry, 2015, 221, 173-177.	1.4	9
263	Structural Transitions in Nanosized Zn0.97Al0.03O Powders under High Pressure Analyzed by in Situ Angle-Dispersive X-ray Diffraction. Materials, 2016, 9, 561.	1.3	4
264	Anisotropic compressibility of the coordination polymer emim[Mn(btc)]. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 389-394.	0.5	8
265	High-pressure pair distribution function (PDF) measurement using high-energy focused x-ray beam. AIP Conference Proceedings, 2016, , .	0.3	0
266	Xâ€Ray Diffraction and MÃ¶ssbauer Spectroscopy Studies of Pressureâ€Induced Phase Transitions in a Mixedâ€Valence Trinuclear Iron Complex. Chemistry - A European Journal, 2016, 22, 9616-9623.	1.7	4
267	Pressure-induced phonon freezing in the ZnSeS IIâ€“VI mixed crystal: phononâ€“polaritons andab initiocalculations. Journal of Physics Condensed Matter, 2016, 28, 205401.	0.7	6
268	Near-forward/high-pressure-backward Raman study of Zn_{1â€‰â^'â€‰x} Be _x Se (x â€‰~â€‰0.5) - evidence for percolation behavior of the long (Znâ€•Se) bond. Journal of Raman Spectroscopy, 2016, 47, 357-367.	1.2	5
269	Structural Collapse of the Hydroquinoneâ€“Formic Acid Clathrate: Aâ€…Pressureâ€Mediumâ€Dependent Phase Transition. Chemistry - A European Journal, 2016, 22, 4061-4069.	1.7	18
270	Evidence of polymorphic transformations of Sn under high pressure. Chinese Physics B, 2016, 25, 120702.	0.7	9
271	Extending the single-crystal quartz pressure gauge up to hydrostatic pressure of 19â€…GPa. Journal of Applied Crystallography, 2016, 49, 2129-2137.	1.9	36
272	Anomalous expansion of Nb nanowires in a NiTi matrix under high pressure. Applied Physics Letters, 2016, 109, 161903.	1.5	1

#	Article	IF	Citations
273	High pressure polymorphs and amorphization of upconversion host material NaY(WO4)2. Applied Physics Letters, 2016, 109, 041907.	1.5	5
274	Reversible switching between pressure-induced amorphization and thermal-driven recrystallization in VO2(B) nanosheets. Nature Communications, 2016, 7, 12214.	5.8	47
275	Correlated structural and electronic phase transformations in transition metal chalcogenide under high pressure. Journal of Applied Physics, 2016, 119, .	1.1	5
276	Structural modifications of GeO2 glass under high pressure and high temperature. Journal of Applied Physics, 2016, 120, .	1.1	2
277	Raman spectroscopy of siderite at high pressure: Evidence for a sharp spin transition. American Mineralogist, 2016, 101, 2638-2644.	0.9	22
278	Pressure-induced phase transitions in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CdC</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> spinel. Physical Review B, 2016, 94, .	1.1	16
279	The equation of state of 5-nitro-2,4-dihydro-1,2,4,-triazol-3-one determined via in-situ optical microscopy and interferometry measurements. Journal of Applied Physics, 2016, 119, 135904.	1.1	10
280	Equation of state of synthetic qandilite Mg2TiO4 at ambient temperature. Physics and Chemistry of Minerals, 2016, 43, 301-306.	0.3	6
281	Structural Phase Transitions and Metallized Phenomena in Arsenic Telluride under High Pressure. Inorganic Chemistry, 2016, 55, 3907-3914.	1.9	17
282	High pressure structural study of samarium doped CeO2 oxygen vacancy conductor â€" Insight into the dopant concentration relationship to the strain effect in thin film ionic conductors. Solid State Ionics, 2016, 292, 59-65.	1.3	4
283	Anhydrous ringwoodites in the mantle transition zone: Their bulkÂmodulus,Âsolid solution behavior, compositional variation, andÂsoundÂvelocity feature. Solid Earth Sciences, 2016, 1, 28-47.	0.8	15
284	High-Pressure Single-Crystal Structures of 3D Lead-Halide Hybrid Perovskites and Pressure Effects on their Electronic and Optical Properties. ACS Central Science, 2016, 2, 201-209.	5.3	357
285	Equation of state for technetium from Xâ€ray diffraction and first-principle calculations. Journal of Physics and Chemistry of Solids, 2016, 95, 6-11.	1.9	5
286	Equation of state and spin crossover of (Mg,Fe)O at high pressure, with implications for explaining topographic relief at the core-mantle boundary. American Mineralogist, 2016, 101, 1084-1093.	0.9	39
287	In-situ high-pressure x-ray diffraction study of zinc ferrite nanoparticles. Solid State Sciences, 2016, 56, 68-72.	1.5	21
288	Blue emitting organic semiconductors under high pressure: status and outlook. Reports on Progress in Physics, 2016, 79, 066601.	8.1	12
289	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO₄. Inorganic Chemistry, 2016, 55, 4958-4969.	1.9	60
290	Polymorphism in Strontium Tungstate SrWO₄ under Quasi-Hydrostatic Compression. Inorganic Chemistry, 2016, 55, 10406-10414.	1.9	25

#	Article	IF	Citations
291	Non-monotonic compositional dependence of isothermal bulk modulus of the (Mg1â€“Mn)Cr2O4 spinel solid solutions, and its origin and implication. Solid Earth Sciences, 2016, 1, 89-100.	0.8	8
292	Compression of a multiphase mantle assemblage: Effects of undesirable stress and stress annealing on the iron spin state crossover in ferropericlase. Journal of Geophysical Research: Solid Earth, 2016, 121, 3377-3392.	1.4	17
293	Structural, Vibrational, and Electronic Study of Î±-As₂Te₃ under Compression. Journal of Physical Chemistry C, 2016, 120, 19340-19352.	1.5	37
295	Singleâ€crystal elasticity of natural Feâ€bearing orthoenstatite across a highâ€pressure phase transition. Geophysical Research Letters, 2016, 43, 8473-8481.	1.5	18
296	High-Pressure Chemistry of a Zeolitic Imidazolate Framework Compound in the Presence of Different Fluids. Journal of the American Chemical Society, 2016, 138, 11477-11480.	6.6	40
297	Beryl-II, a high-pressure phase of beryl: Raman and luminescence spectroscopy to 16.4 GPa. Physics and Chemistry of Minerals, 2016, 43, 671-687.	0.3	15
298	Hydrostaticity of poly(methyl methacrylate) loaded in a diamond anvil cell for high-pressure study. Current Applied Physics, 2016, 16, 1571-1575.	1.1	5
299	The role of fluids in high-pressure polymorphism of drugs: different behaviour of Î²-chlorpropamide in different inert gas and liquid media. RSC Advances, 2016, 6, 92629-92637.	1.7	25
300	Highâ€pressure optical study of smallâ€diameter chiralityâ€enriched singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2016, 253, 2446-2450.	0.7	5
301	High-pressure Raman scattering on Fe 2 (MoO 4) 3 microcrystals obtained by a hydrothermal method. Vibrational Spectroscopy, 2016, 87, 88-93.	1.2	17
302	X-ray scattering study of pyrochlore iridates: Crystal structure, electronic, and magnetic excitations. Physical Review B, 2016, 94, .	1.1	37
303	High-pressure studies of three polymorphs of a palladium(II) oxathioether macrocyclic complex. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2016, 72, 357-371.	0.5	4
304	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
305	Fermi surface reconstruction in FeSe under high pressure. Physical Review B, 2016, 93, .	1.1	35
306	Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Te</mml:mi></mml:mrow></mml:math>: Pressure-induced universality in the<mml:math		

#	Article	IF	Citations
310	Metastable structural transformations and pressure-induced amorphization in natural (Mg,Fe)₂SiO₄olivine under static compression: A Raman spectroscopic study. American Mineralogist, 2016, 101, 1642-1650.	0.9	20
311	Pressure-Dependent Structural and Chemical Changes in a Metalâ€“Organic Framework with One-Dimensional Pore Structure. Chemistry of Materials, 2016, 28, 5336-5341.	3.2	25
312	High-pressure polymorphism of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Pb</mml:mi><mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>to 75 GPa. Physical Review B, 2016, 94, .	1.1	9
313	Arsenolite: a quasi-hydrostatic solid pressure-transmitting medium. Journal of Physics Condensed Matter, 2016, 28, 475403.	0.7	3
314	Structural Stability and Anharmonicity of Pr₂Ti₂O₇: Raman Spectroscopic and XRD Studies. Inorganic Chemistry, 2016, 55, 11791-11800.	1.9	18
315	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
316	High-pressure phase of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaPO</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math> by x-ray diffraction and second harmonic generation. Physical Review B, 2016, 94, .	1.1	21
317	Anisotropic physical properties and pressure dependent magnetic ordering ofCrAuTe4. Physical Review B, 2016, 94, .	1.1	3
318	A Cr³⁺luminescence study of spodumene at high pressures: Effects of site geometry, a phase transition, and a level-crossing. American Mineralogist, 2016, 101, 1406-1413.	0.9	15
319	Lubrication at Extreme Conditions: A Discussion About the Limiting Shear Stress Concept. Tribology Letters, 2016, 63, 1.	1.2	26
320	In-situ high-pressure Raman scattering studies in PbWO4 up to 48ÂGPa. Journal of Alloys and Compounds, 2016, 667, 36-43.	2.8	6
321	High pressure research using muons at the Paul Scherrer Institute. High Pressure Research, 2016, 36, 140-166.	0.4	79
322	The stability of B₆ octahedron in BaB₆ under high pressure. RSC Advances, 2016, 6, 18077-18081.	1.7	12
323	Pressure-driven semiconducting-semimetallic transition in SnSe. Physical Chemistry Chemical Physics, 2016, 18, 5012-5018.	1.3	50
324	High-pressure X-ray diffraction and Raman spectroscopy of CaFe2O4-type Î²-CaCr2O4. Physics and Chemistry of Minerals, 2016, 43, 307-314.	0.3	11
325	Cu 3 TaSe 4 and Cu 3 NbSe 4 : X-ray diffraction, differential thermal analysis, optical absorption and Raman scattering. Journal of Alloys and Compounds, 2016, 658, 749-756.	2.8	21
326	Study of Phase Transformation in BaTe2O6 by in Situ High-Pressure X-ray Diffraction, Raman Spectroscopy, and First-Principles Calculations. Inorganic Chemistry, 2016, 55, 227-238.	1.9	11
327	Evolution of the bikitaite structure at high pressure: A single-crystal X-ray diffraction study. Microporous and Mesoporous Materials, 2016, 226, 415-423.	2.2	9

#	Article	IF	Citations
328	High-pressure phase transition makes B_{4.3}C boron carbide a wide-gap semiconductor. Journal of Physics Condensed Matter, 2016, 28, 045403.	0.7	35
329	Raman spectroscopic study of DL valine under pressure up to 20ÂGPa. Journal of Molecular Structure, 2016, 1109, 220-225.	1.8	6
330	Some thermodynamic properties of larnite (Î²-Ca₂SiO₄) constrained by highT/Pexperiment and/or theoretical simulation. American Mineralogist, 2016, 101, 277-288.	0.9	16
331	High-Pressure Chemistry of Graphene Oxide in the Presence of Ar, N₂, and NH₃. Journal of Physical Chemistry C, 2016, 120, 5174-5187.	1.5	7
332	Structure prediction of the solid forms of methanol: an ab initio random structure searching approach. Physical Chemistry Chemical Physics, 2016, 18, 2736-2746.	1.3	15
333	New insights into the compressibility and high-pressure stability of Ni(CN)2: a combined study of neutron diffraction, Raman spectroscopy, and inelastic neutron scattering. Journal of Physics Condensed Matter, 2016, 28, 045402.	0.7	6
334	Pressure-induced amorphization of YVO₄:Eu³⁺nanoboxes. Nanotechnology, 2016, 27, 025701.	1.3	19
335	Pressure-induced phase transformations of PbCO₃by X-ray diffraction and Raman spectroscopy. High Pressure Research, 2016, 36, 1-15.	0.4	18
336	High pressure structural investigation on alluaudites Na 2 Fe 3 (PO 4) 3 -Na 2 FeMn 2 (PO 4) 3 system. Journal of Solid State Chemistry, 2017, 247, 156-160.	1.4	4
337	Structural phase transitions of (Bi_{1â^'x}Sb_x)₂(Te_{1â^'y}Se_y)₃ compounds under high pressure and the influence of the atomic radius on the compression processes of tetradymites. Physical Chemistry Chemical Physics, 2017, 19, 2207-2216.	1.3	18
338	Structural transitions of ordered kesterite-type Cu2ZnSnS4 under pressure. Applied Physics Letters, 2017, 110, .	1.5	12
339	FeCr2O4spinel to near megabar pressures: Orbital moment collapse and site-inversion facilitated spin crossover. Physical Review B, 2017, 95, .	1.1	10
340	On the high-pressure phase stability and elastic properties ofÎ²-titanium alloys. Journal of Physics Condensed Matter, 2017, 29, 155401.	0.7	20
341	Ab initio calculations of uranium and thorium storage in CaSiO₃-perovskite in the Earthâ€™s lower mantle. American Mineralogist, 2017, 102, 321-326.	0.9	5
342	High-pressure optical spectroscopy study of natural siderite. Physics and Chemistry of Minerals, 2017, 44, 537-546.	0.3	8
343	Volume and pressure dependences of the electronic, vibrational, and crystal structures of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">s</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>CoC</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>: Identification of a pressure-induced piezochromic phase at high pressure. Physical Review B, 2017, 95, .	1.1	4
344	Electrical transport measurements of thin film samples under high hydrostatic pressure. Review of Scientific Instruments, 2017, 88, 033901.	0.6	6
345	Structure and bulk modulus of Ln-doped UO2 (LnÂ= La, Nd) at high pressure. Journal of Nuclear Materials, 2017, 490, 28-33.	1.3	11

#	Article	IF	Citations
346	Thermo-elastic behavior of grossular garnet at high pressures and temperatures. American Mineralogist, 2017, 102, 851-859.	0.9	38
347	Pressure-induced structural transition in chalcopyrite ZnSiP2. Applied Physics Letters, 2017, 110, 182106.	1.5	17
348	A study of tantalum pentoxide Ta2O5 structures up to 28â€‰GPa. Journal of Applied Physics, 2017, 121, 175901.	1.1	3
349	Combined high-pressure and high-temperature vibrational studies of dolomite: phase diagram and evidence of a new distorted modification. Physics and Chemistry of Minerals, 2017, 44, 465-476.	0.3	26
350	Highâ€pressure Raman study of nyerereite from Oldoinyo Lengai. Journal of Raman Spectroscopy, 2017, 48, 1438-1442.	1.2	13
351	Biaxial Strain Transfer in Supported Graphene. Nano Letters, 2017, 17, 21-27.	4.5	46
352	Delocalization in Cr3+ luminescence of clinochlore: A pressure-induced transition from single-ion emission to pair emission. Journal of Physics and Chemistry of Solids, 2017, 109, 89-99.	1.9	4
353	Intermolecular Interaction Energies in Hydroquinone Clathrates at High Pressure. Crystal Growth and Design, 2017, 17, 3834-3846.	1.4	21
354	Raman study of graphene nanoribbon analogs confined in singleâ€walled carbon nanotubes and their highâ€pressure transformations. Journal of Raman Spectroscopy, 2017, 48, 951-957.	1.2	4
355	Effect of temperature on the pressure-induced spin transition in siderite and iron-bearing magnesite: a Raman spectroscopy study. European Journal of Mineralogy, 2017, 29, 785-793.	0.4	15
356	High pressure x-ray diffraction studies of the nanostructured Ge34Sb66 solid solution produced by mechanical alloying. Journal of Alloys and Compounds, 2017, 722, 131-137.	2.8	6
357	Anomalous phase transition of Bi-doped Zn2GeO4 investigated by electrical conductivity and Raman spectroscopy under high pressure. Journal of Applied Physics, 2017, 121, 125901.	1.1	12
358	Stability of the fergusonite phase in GdNbO 4 by high pressure XRD and Raman experiments. Journal of Solid State Chemistry, 2017, 251, 14-18.	1.4	22
359	Experimental and theoretical high pressure study of calcium hydroxyaluminate phases. Cement and Concrete Research, 2017, 97, 1-10.	4.6	8
360	Relaxation processes of densified silica glass. Journal of Chemical Physics, 2017, 146, .	1.2	30
361	High-pressure behavior of A2B2O7 pyrochlore (A=Eu, Dy; B=Ti, Zr). Journal of Applied Physics, 2017, 121, .	1.1	42
362	Significant improvement in Mn2O3 transition metal oxide electrical conductivity via high pressure. Scientific Reports, 2017, 7, 44078.	1.6	31
363	Structural Behavior of ZnCr₂S₄ Spinel under Pressure. Journal of Physical Chemistry C, 2017, 121, 769-777.	1.5	13

#	Article	IF	Citations
364	ScVO₄under non-hydrostatic compression: a new metastable polymorph. Journal of Physics Condensed Matter, 2017, 29, 055401.	0.7	29
365	High-Pressure High-Temperature Structural Properties of Urea. Journal of Physical Chemistry C, 2017, 121, 2380-2387.	1.5	28
366	SrB₄O₇:Sm²⁺: an optical sensor reflecting non-hydrostatic pressure at high-temperature and/or high pressure in a diamond anvil cell. High Pressure Research, 2017, 37, 18-27.	0.4	15
367	Reversible pressure pre-amorphization of a piezochromic metalâ€“organic framework. Dalton Transactions, 2017, 46, 14795-14803.	1.6	30
368	Pressure-induced anomalous enhancement of insulating state and isosymmetric structural transition in quasi-one-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	12
369	J(Si,H) Coupling Constants of Activated Siâ€“H Bonds. Journal of Physical Chemistry A, 2017, 121, 7219-7235.	1.1	18
370	The highâ€pressure phase of lawsonite: A single crystal study of a key mantle hydrous phase. Journal of Geophysical Research: Solid Earth, 2017, 122, 6294-6305.	1.4	6
371	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> Physical Review B, 2017, 95, .	1.1	23
372	Highâ€pressure behavior of (Cs,K)Al₄Be₅B₁₁O₂₈ (londonite): A singleâ€crystal synchrotron diffraction study up to 26 GPa. Journal of the American Ceramic Society, 2017, 100, 4893-4901.	1.9	7
373	In situ surface enhanced Raman spectroscopy detection in high pressure solution. Applied Surface Science, 2017, 425, 833-837.	3.1	3
374	Single-crystal equations of state of magnesiowÃ¼stite at high pressures. American Mineralogist, 2017, 102, 1709-1717.	0.9	9
375	Neutron investigations of the magnetic properties of Fe x Mn1âˆ’x S under pressure up to 4.2 GPa. JETP Letters, 2017, 106, 498-502.	0.4	2
376	Quantum phase transition and destruction of Kondo effect in pressurized SmB6. Science Bulletin, 2017, 62, 1439-1444.	4.3	22
377	Pressure-induced irreversible amorphization and metallization with a structural phase transition in arsenic telluride. Journal of Materials Chemistry C, 2017, 5, 12157-12162.	2.7	35
378	Linear Tunability of the Band Gap and Two-Dimensional (2D) to Three-Dimensional (3D) Isostructural Transition in WSe₂ under High Pressure. Journal of Physical Chemistry C, 2017, 121, 26019-26026.	1.5	20
379	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO₃. Inorganic Chemistry, 2017, 56, 8363-8371.	1.9	18
380	Effects of Nonhydrostatic Stress on Structural and Optoelectronic Properties of Methylammonium Lead Bromide Perovskite. Journal of Physical Chemistry Letters, 2017, 8, 3457-3465.	2.1	53
381	Poroelastic Theory Applied to the Adsorption-Induced Deformation of Amorphous Silica. , 2017, , .		0

#	Article	IF	Citations
382	Site-specific spin crossover in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> post-spinel under high pressure up to nearly a megabar. Physical Review B, 2017, 96, .	1.1	8
383	Glass Transition Temperature and Density Scaling in Cumene at Very High Pressure. Physical Review Letters, 2017, 119, 025702.	2.9	21
384	Strain engineered pyrochlore at high pressure. Scientific Reports, 2017, 7, 2236.	1.6	19
385	Cryogenic loading of argon pressure medium in diamond anvil high pressure cells with in situ pressure determination. Review of Scientific Instruments, 2017, 88, 065115.	0.6	0
386	Ionic Liquid: A Good Pressure Transmitting Medium. Journal of Solution Chemistry, 2017, 46, 3-10.	0.6	2
387	Spinel and post-spinel phase assemblages in Zn2TiO4: an experimental and theoretical study. Physics and Chemistry of Minerals, 2017, 44, 109-123.	0.3	9
388	Raman spectroscopic study of MnAl2O4 galaxite at various pressures and temperatures. Physics and Chemistry of Minerals, 2017, 44, 163-170.	0.3	4
389	High-pressure lattice-dynamics of NdVO4. Journal of Physics and Chemistry of Solids, 2017, 100, 126-133.	1.9	24
390	High-pressure studies with x-rays using diamond anvil cells. Reports on Progress in Physics, 2017, 80, 016101.	8.1	118
391	Hydrostatic pressure dependence on the collapsing of heptamer clusters in the charge ordered spinel AlV2O4. Solid State Communications, 2017, 250, 23-27.	0.9	2
392	Pressure driven spin transition in siderite and magnesiosiderite single crystals. Scientific Reports, 2017, 7, 16526.	1.6	24
393	Equation of state of 1,3,5-triamino-2,4,6-trinitrobenzene up to 66 GPa. Journal of Applied Physics, 2017, 122, .	1.1	22
394	Material Studies at High Pressure. , 2017, , 1-47.		3
395	A new high-pressure polymorph of phosphoric acid. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 1068-1074.	0.5	3
396	Crystallographic properties of the Ce1â^'Lu O2â^'/2 system at pressures up to 7â€¯GPa. Solid State Ionics, 2018, 320, 152-158.	1.3	10
397	Experimental and Theoretical Study of Bi₂O₂Se Under Compression. Journal of Physical Chemistry C, 2018, 122, 8853-8867.	1.5	46
398	Interplay between structural and magnetic-electronic responses of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>FeA</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>4</mml:mn></mml:msub></mml:mrow></mml:math> to a megabar: Site inversion and spin crossover. Physical Review B, 2018, 97, .	1.1	5
399	Strain-induced modulations of electronic structure and electronâ€“phonon coupling in dense H₃S. Physical Chemistry Chemical Physics, 2018, 20, 5952-5957.	1.3	15

#	Article	IF	Citations
400	Structural, vibrational, and electrical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under hydrostatic pressure: Experiments and theory. Physical Review B, 2018, 97, .	1.1	63
401	Radiation-induced disorder in compressed lanthanide zirconates. Physical Chemistry Chemical Physics, 2018, 20, 6187-6197.	1.3	10
402	Pressure effect on impurity local vibrational mode and phase transitions in n-type iron-doped indium phosphide. Scientific Reports, 2018, 8, 1284.	1.6	11
403	High-pressure dissociation of selenium and tellurium. Physical Chemistry Chemical Physics, 2018, 20, 6116-6120.	1.3	8
404	How and Why Does Helium Permeate Nonporous Arsenolite Under High Pressure?. ChemPhysChem, 2018, 19, 857-864.	1.0	10
405	A₂TiO₅ (A = Dy, Gd, Er, Yb) at High Pressure. Inorganic Chemistry, 2018, 57, 2269-2277.	1.9	6
406	Quantum tricritical point in the temperature-pressure-magnetic field phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CeTiGe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2018, 97, .	1.1	21
407	In situ Raman spectroscopy of pressureâ€induced phase transformations in polycrystalline Tb<scp>PO</scp>₄, Dy<scp>PO</scp>₄, and Gd_xDy_(1â^'x)<scp>PO</scp>₄. Journal of the American Ceramic Society, 2018, 101, 2562-2570.	1.9	12
408	High pressure in-situ X-ray diffraction study on Zn-doped magnetite nanoparticles. Solid State Sciences, 2018, 77, 1-4.	1.5	3
409	High pressure experimental studies on Na3Fe(PO4)(CO3) and Na3Mn(PO4)(CO3): Extensive pressure behaviors of carbonophosphates family. Journal of Physics and Chemistry of Solids, 2018, 115, 248-253.	1.9	5
410	The effect of pressure on open-framework silicates: elastic behaviour and crystalâ€“fluid interaction. Physics and Chemistry of Minerals, 2018, 45, 115-138.	0.3	44
411	Probing the origin of the giant magnetic anisotropy in trigonal bipyramidal Ni(<scp>ii</scp>) under high pressure. Chemical Science, 2018, 9, 1551-1559.	3.7	52
412	High pressure stability of lithium metatitanate and metazirconate: Insight from experiments & ab-initio calculations. Journal of Nuclear Materials, 2018, 499, 334-343.	1.3	8
413	Evidence for a pressure-induced spin transition in olivine-type LiFePO4 triphylite. Physical Review B, 2018, 97, .	1.1	6
414	Pressure induced band inversion, electronic and structural phase transitions in InTe: A combined experimental and theoretical study. Physical Review B, 2018, 97, .	1.1	31
415	The effect of type-B carbonate content on the elasticity of fluorapatite. Physics and Chemistry of Minerals, 2018, 45, 789-800.	0.3	6
416	Solids, liquids, and gases under high pressure. Reviews of Modern Physics, 2018, 90, .	16.4	337
417	Structural, vibrational, and electronic topological transitions of Bi1.5Sb0.5Te1.8Se1.2 under pressure. Journal of Applied Physics, 2018, 123, .	1.1	14

#	Article	IF	Citations
418	Pressure dependent Raman studies in the K2Mo2O7Â·H2O crystal. Vibrational Spectroscopy, 2018, 94, 89-94.	1.2	4
419	Anisotropic lattice compression of Î±- and Î²-CePdZn. Physica B: Condensed Matter, 2018, 536, 293-296.	1.3	1
420	Pressure-dependent Raman spectra of Ba5(PO4)3Cl alforsite. Physics and Chemistry of Minerals, 2018, 45, 353-359.	0.3	2
421	Pargasite at high pressure and temperature. Physics and Chemistry of Minerals, 2018, 45, 259-278.	0.3	7
422	Tuning the Swing Effect by Chemical Functionalization of Zeolitic Imidazolate Frameworks. Journal of the American Chemical Society, 2018, 140, 382-387.	6.6	55
423	Structural Behavior of Natural Silicateâ€“Carbonate Spurrite Mineral, Ca₅(SiO₄)₂(CO₃), under High-Pressure, High-Temperature Conditions. Inorganic Chemistry, 2018, 57, 98-105.	1.9	16
424	Raman scattering studies of graphene under high pressure. Journal of Raman Spectroscopy, 2018, 49, 121-129.	1.2	45
425	High-pressure study of dravite tourmaline: Insights into the accommodating nature of the tourmaline structure. American Mineralogist, 2018, 103, 1622-1633.	0.9	16
426	Equations of State and Anisotropy of Feâ€Niâ€Si Alloys. Journal of Geophysical Research: Solid Earth, 2018, 123, 4647-4675.	1.4	21
427	Experimental and theoretical study on the optical properties of LaVO₄ crystals under pressure. Physical Chemistry Chemical Physics, 2018, 20, 27314-27328.	1.3	26
428	Synthesis of a novel strontium-based wide-bandgap semiconductor via X-ray photochemistry under extreme conditions. Journal of Materials Chemistry C, 2018, 6, 12473-12478.	2.7	11
429	Equation of State of a Natural Chromian Spinel at Ambient Temperature. Minerals (Basel, Switzerland), 2018, 8, 591.	0.8	6
430	Temperature and pressure induced Raman studies of C60 oxide. Journal of Applied Physics, 2018, 124, .	1.1	2
431	Simple imaging for the diamond anvil cell: Applications to hard-to-reach places. Review of Scientific Instruments, 2018, 89, 103902.	0.6	7
432	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
433	Effects of non-hydrostaticity and grain size on the pressure-induced phase transition of the CoCrFeMnNi high-entropy alloy. Journal of Applied Physics, 2018, 124, .	1.1	19
434	Equation of State and Amorphization of Ca₉R(VO₄)₇ (R = La, Nd,) Tj ETQq0 0 0 rgBT /Overlock 1 2018, 57, 13115-13127.	1.9	5
435	High Pressure Behavior of Chromium and Yttrium Molybdate (Cr2Mo3O12, Y2Mo3O12). Frontiers in Chemistry, 2018, 6, 478.	1.8	3

#	Article	IF	Citations
436	Pressure effect investigations on spin-crossover coordination compounds. Comptes Rendus Chimie, 2018, 21, 1095-1120.	0.2	60
437	First-principles calculations and Raman scattering evidence for local symmetry lowering in rhombohedral ilmenite: temperature- and pressure-dependent studies. Journal of Physics Condensed Matter, 2018, 30, 485401.	0.7	13
438	High-Pressure High-Temperature Stability and Thermal Equation of State of Zircon-Type Erbium Vanadate. Inorganic Chemistry, 2018, 57, 14005-14012.	1.9	17
439	Perspective: High pressure transformations in nanomaterials and opportunities in material design. Journal of Applied Physics, 2018, 124, .	1.1	37
440	Single-standard method for simultaneous pressure and temperature estimation using Sm2+:SrB4O7 fluorescence. Journal of Applied Physics, 2018, 124, .	1.1	16
441	Phase transition and compressibility study of UOs2 under pressure. Journal of Nuclear Materials, 2018, 511, 312-317.	1.3	1
442	Pressure-induced structural modulations in coesite. Physical Review B, 2018, 98, .	1.1	4
443	Pressure-induced phase transitions and superconductivity in a black phosphorus single crystal. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9935-9940.	3.3	47
444	First-order structural transition and pressure-induced lattice/phonon anomalies in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2018, 98, .	1.1	21
445	Pressure-induced reversible phase transition on Mo2Ga2C. Journal of Applied Physics, 2018, 124, .	1.1	7
446	Equation of state of boron subarsenide B₁₂As2 to 47 GPa. High Pressure Research, 2018, 38, 224-231.	0.4	9
447	Phase Transition and vibration properties of MnCO3 at high pressure and high-temperature by Raman spectroscopy. High Pressure Research, 2018, 38, 212-223.	0.4	19
448	Peptide metalâ€“organic frameworks under pressure: flexible linkers for cooperative compression. Dalton Transactions, 2018, 47, 10654-10659.	1.6	45
449	Structural anomalies in exfoliated WS2: High pressure investigations on monolayer and nanocrystalline tungsten disulfide. Journal of Applied Physics, 2018, 123, .	1.1	15
450	Universal link of magnetic exchange and structural behavior under pressure in chromium spinels. Physical Review B, 2018, 97, .	1.1	24
451	Crystal structure of CaSiO3 perovskite at 28â€“62 GPa and 300 K under quasi-hydrostatic stress conditions. American Mineralogist, 2018, 103, 462-468.	0.9	13
452	Experimental and Theoretical Studies on Î±-In₂Se₃ at High Pressure. Inorganic Chemistry, 2018, 57, 8241-8252.	1.9	46
453	Crystal structure determination under high pressure in the iron-based ladder superconductor BaFe2S3. Superconductor Science and Technology, 2018, 31, 105002.	1.8	7

#	Article	IF	Citations
454	Toward a Robust Elastic Geobarometry of Kyanite Inclusions in Eclogitic Diamonds. Journal of Geophysical Research: Solid Earth, 2018, 123, 6411-6423.	1.4	19
455	Pressure-induced disruption of the local environment of Fe-Fe dimers in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeGa</mml:mi><mml:mn>3</mml:mn></ by metallization. Physical Review B, 2018, 98, .	1.1	3
456	Superconducting and magnetic phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>RbEuFe</mml:mi><mml:mn>4</mml:mn></ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CsEuFe</mml:mi><mml:mn>4</mml:mn></ at high pressure. Physical Review B, 2018, 98, .	1.1	31
457	High pressure and temperature effects on the molecular crystal 2â€aminoâ€5â€methylâ€1,3,4â€thiadiazole. Journal of Raman Spectroscopy, 2018, 49, 1713-1721.	1.2	3
458	High-pressure phase behavior and equations of state of ThO2 polymorphs. American Mineralogist, 2018, 103, 749-756.	0.9	8
459	Bond compressibility and bond GrÃ¼neisen parameters of CdTe. Journal of Physics Condensed Matter, 2018, 30, 245402.	0.7	9
460	Smart composite films of nanometric thickness based on copperâ€“iodine coordination polymers. Toward sensors. Chemical Science, 2018, 9, 8000-8010.	3.7	44
461	1.5ÂGPa compact double-wall clamp cell for SANS and NSE studies at low temperatures and high magnetic fields. Journal of Neutron Research, 2018, 20, 25-33.	0.4	11
462	X-Ray Diffraction under Extreme Conditions at the Advanced Light Source. Quantum Beam Science, 2018, 2, 4.	0.6	18
463	Pressure-mediated structural transitions in bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuTiO</mml:mi><mml:mn>3</mml:mn></ Physical Review B, 2018, 98, .	1.1	6
464	Studies on Im-3-type KSbO3 using high pressure X-ray diffraction and Raman spectroscopy. High Pressure Research, 2018, 38, 232-242.	0.4	4
465	Pressure-induced stacking disorder in boehmite. Physical Chemistry Chemical Physics, 2018, 20, 16650-16656.	1.3	4
466	Transformation pathways and isothermal compressibility of a MTN-type clathrasil using penetrating and non-penetrating fluids. Microporous and Mesoporous Materials, 2019, 273, 73-89.	2.2	1
467	Vibrational response of strontianite at high pressures and high temperatures and construction of Pâ€“T phase diagram. Physics and Chemistry of Minerals, 2019, 46, 27-35.	0.3	9
468	Study of the compression behavior and elastic properties of HfB2 ceramics using experimental method and first-principles calculations. Journal of Alloys and Compounds, 2019, 808, 151764.	2.8	8
469	Pressure-induced structural dimerization in the hyperhoneycomb iridate<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mtext>â€™</mml:mtext><mml:mi>Li</mml:mi><m /><mml:mn>2</mml:mn></mml:msub><mml:mi>IrO</mml:mi><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>at low temperatures. Physical Review B, 2019, 100, .	1.1	14
470	High-pressure isothermal equation of state of composite materials: A case study of LX-17 polymer bonded explosive. Applied Physics Letters, 2019, 115, 051902.	1.5	4
471	Spontaneous proton transfer in a series of amphoteric molecules under hydrostatic pressure. Physical Chemistry Chemical Physics, 2019, 21, 17696-17702.	1.3	10

#	Article	IF	Citations
472	The effect of pressure on hydrogen solubility in Zircaloy-4. Journal of Nuclear Materials, 2019, 524, 256-262.	1.3	3
473	Optically Robust and Biocompatible Mechanosensitive Upconverting Nanoparticles. ACS Central Science, 2019, 5, 1211-1222.	5.3	30
474	Effect of high pressure on the typical 2D hydrogen-bonded crystal azodicarbonamide. Journal of Physics and Chemistry of Solids, 2019, 135, 109096.	1.9	1
475	Insights into Polymorphism of Lithium Manganese Oxide, Li_{0.95}Mn_{2.05}O₄: A Comprehensive Survey of the High-Pressure Properties. Journal of Physical Chemistry C, 2019, 123, 19288-19297.	1.5	3
476	High-Pressure Softening of the Out-of-Plane A_{2u}(Transverse-Optic) Mode of Hexagonal Boron Nitride Induced by Dynamical Buckling. Journal of Physical Chemistry C, 2019, 123, 17491-17497.	1.5	19
477	Stability and Compressibility of Cation-Doped High-Entropy Oxide MgCoNiCuZnO₅. Journal of Physical Chemistry C, 2019, 123, 17735-17744.	1.5	50
478	High-pressure synthesis of ultraincompressible hard rhenium nitride pernitride Re2(N2)(N)2 stable at ambient conditions. Nature Communications, 2019, 10, 2994.	5.8	65
479	High-pressure Raman and Nd3+ luminescence spectroscopy of bastnÃsite-(REE)CO3F. American Mineralogist, 2019, 104, 1389-1401.	0.9	7
480	Argon-neon binary diagram and ArNe2 Laves phase. Journal of Chemical Physics, 2019, 151, 124708.	1.2	6
481	Low-pressure ferroelastic phase transition in rutile-type AX2 minerals: cassiterite (SnO2), pyrolusite (MnO2) and sellaite (MgF2). Physics and Chemistry of Minerals, 2019, 46, 987-1002.	0.3	4
482	Optical spectroscopy on the photo-response in multiferroic BiFeO3 at high pressure. Journal of Applied Physics, 2019, 126, 164103.	1.1	1
483	Metalâ€“organic frameworks under pressure. Journal of Applied Physics, 2019, 126, .	1.1	54
484	Equations of State of Simple Solids (Including Pb, NaCl and LiF) Compressed in Helium or Neon in the Mbar Range. Minerals (Basel, Switzerland), 2019, 9, 684.	0.8	14
485	Sound velocity of neon at high pressures and temperatures by Brillouin scattering. American Mineralogist, 2019, 104, 1650-1655.	0.9	3
486	High-Pressure Phase Diagrams of Na2CO3 and K2CO3. Minerals (Basel, Switzerland), 2019, 9, 599.	0.8	11
487	Stability, composition, and crystal structure of Fe-bearing Phase E in the transition zone. American Mineralogist, 2019, 104, 1620-1624.	0.9	8
488	Pressure-induced formation of rhodium zigzag chains in the honeycomb rhodate Li2RhO3. Physical Review B, 2019, 100, .	1.1	11
489	High pressure studies on Î±-cristobalite form of Al_{0.5}Ga_{0.5}PO₄: hydrostatic versus non-hydrostatic conditions. High Pressure Research, 2019, 39, 81-91.	0.4	2

#	Article	IF	Citations
490	Unusual pressure-induced metallic state in the correlated narrow band-gap semiconductor FeSi. Physical Review B, 2019, 100, .	1.1	8
491	Study of the high pressure phase evolution of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	3
492	Pressure-induced isosymmetric phase transition in biurea. CrystEngComm, 2019, 21, 5872-5881.	1.3	3
493	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and ab initio calculations. Physical Review B, 2019, 100, .	1.1	22
494	Anomalous Conductivity in the Rutile Structure Driven by Local Disorder. Journal of Physical Chemistry Letters, 2019, 10, 5351-5356.	2.1	4
495	Pressure-induced orderâ€“disorder transition in Gd _{1.5} Ce _{0.5} Ti ₂ O ₇ pyrochlore. Royal Society Open Science, 2019, 6, 190842.	1.1	3
496	Hydrostaticity of pressure-transmitting media for high pressure infrared spectroscopy. High Pressure Research, 2019, 39, 608-618.	0.4	44
497	Exploring the high-pressure behaviour of polymorphs of AMO4 ternary oxides: crystal structure and physical properties. Journal of Chemical Sciences, 2019, 131, 1.	0.7	7
498	Pressure induced lattice effects in pure and near optimally doped La2â^'Sr CuO4. Physica C: Superconductivity and Its Applications, 2019, 565, 1353516.	0.6	1
499	Recent advances in organic pressure-responsive luminescent materials. Chinese Chemical Letters, 2019, 30, 1883-1894.	4.8	44
500	Pressure-driven band gap engineering in ion-conducting semiconductor silver orthophosphate. Journal of Materials Chemistry A, 2019, 7, 4451-4458.	5.2	5
501	Effects of pressure on the structure and lattice dynamics of Î±-glycine: a combined experimental and theoretical study. CrystEngComm, 2019, 21, 4457-4464.	1.3	16
502	High-pressure in-situ X-ray diffraction and Raman spectroscopy of Ca₂AlFeO₅ brownmillerite. High Pressure Research, 2019, 39, 92-105.	0.4	4
503	Equations of state of Co2TiO4-Sp, Co2TiO4-CM, and Co2TiO4-CT, and their phase transitions: an experimental and theoretical study. Physics and Chemistry of Minerals, 2019, 46, 571-582.	0.3	4
504	Pressure induced topological and structural phase transitions in 1T-TiSe₂: a Raman study. Journal of Physics Condensed Matter, 2019, 31, 165401.	0.7	9
505	Redistribution of native defects and photoconductivity in ZnO under pressure. RSC Advances, 2019, 9, 4303-4313.	1.7	15
506	High Pressure Crystal Structure and Electrical Properties of a Single Component Molecular Crystal [Ni(dddt)2] (dddt = 5,6-dihydro-1,4-dithiin-2,3-dithiolate). Molecules, 2019, 24, 1843.	1.7	5
507	Rich Polymorphism of a Metalâ€“Organic Framework in Pressureâ€“Temperature Space. Journal of the American Chemical Society, 2019, 141, 9330-9337.	6.6	68

#	Article	IF	Citations
508	Probing disorder in high-pressure cubic tin (IV) oxide: a combined X-ray diffraction and absorption study. Journal of Synchrotron Radiation, 2019, 26, 1245-1252.	1.0	8
509	Transformation mechanism of the pressure-induced C2/c-to-P<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo>Â¯</mml:mo></mml:mover></mml:mrow></mml:math>transition in ferrous sulfate monohydrate single crystals. Journal of Solid State Chemistry, 2019, 277, 240-252.	1.4	15
510	Metal halide perovskites under compression. Journal of Materials Chemistry A, 2019, 7, 16089-16108.	5.2	42
511	The pressure-induced phase transition(s) of $$hbox {ZrSiO}_4$$: revised. Physics and Chemistry of Minerals, 2019, 46, 807-814.	0.3	16
512	Structural stability and vibrational characteristics of CaB₆ under high pressure*. Chinese Physics B, 2019, 28, 068101.	0.7	3
513	New dynamic diamond anvil cells for tera-pascal per second fast compression x-ray diffraction experiments. Review of Scientific Instruments, 2019, 90, 065114.	0.6	30
514	Allanite at high pressure: effect of REE on the elastic behaviour of epidote-group minerals. Physics and Chemistry of Minerals, 2019, 46, 783-793.	0.3	4
515	Post-tilleyite, a dense calcium silicate-carbonate phase. Scientific Reports, 2019, 9, 7898.	1.6	18
516	The Effect of Pressure on Halogen Bonding in 4-Iodobenzonitrile. Molecules, 2019, 24, 2018.	1.7	11
517	Phonon signatures of multiple topological quantum phase transitions in compressed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TlBi</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> : A combined experimental and theoretical study. Physical Review B, 2019, 99, .	1.1	10
518	High pressure structural investigations on K2Zr(PO4)2. Journal of Solid State Chemistry, 2019, 276, 251-260.	1.4	4
519	Pressure-induced phase transition in 1,3,5-triamino-2,4,6-trinitrobenzene (TATB). Applied Physics Letters, 2019, 114, .	1.5	34
520	Packing Rearrangements in 4-Hydroxycyanobenzene Under Pressure. Molecules, 2019, 24, 1759.	1.7	8
521	Pressure Effects on the Optical Properties of NdVO4. Crystals, 2019, 9, 237.	1.0	12
522	High-pressure study of a nanostructured SnSe1âˆ’xSx (xâ€¯=â€¯0.5) solid solution by in-situ X-ray diffraction and ab-initio calculations. Journal of Alloys and Compounds, 2019, 792, 536-542.	2.8	7
523	Origin of the piezochromism in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cs</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> : Electron-phonon and crystal-structure correlations. Physical Review B, 2019, 99, .	1.1	5
524	Anomalous behavior of nonequilibrium excitations in UO2. Physical Review B, 2019, 99, .	1.1	0
525	A Metastable Fo-III Wedge in Cold Slabs Subducted to the Lower Part of the Mantle Transition Zone: A Hypothesis Based on First-Principles Simulations. Minerals (Basel, Switzerland), 2019, 9, 186.	0.8	2

#	Article	IF	Citations
526	Equation of state of LiCoO ₂ under 30 GPa pressure. Chinese Physics B, 2019, 28, 016402.	0.7	6
527	Orthorhombic distortion in Au nanoparticles induced by high pressure. CrystEngComm, 2019, 21, 3451-3459.	1.3	7
528	High-Pressure Single-Crystal X-ray Diffraction of Lead Chromate: Structural Determination and Reinterpretation of Electronic and Vibrational Properties. Inorganic Chemistry, 2019, 58, 5966-5979.	1.9	13
529	Vibrational properties of CdGa2S4 at high pressure. Journal of Applied Physics, 2019, 125, .	1.1	7
530	Pressureâ€Induced Polymerization and Electrical Conductivity of a Polyiodide. Angewandte Chemie - International Edition, 2019, 58, 6625-6629.	7.2	24
531	Measuring structural inhomogeneity of a helical conjugated polymer at high pressure and temperature. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 392-396.	2.4	1
532	An infrared and Raman spectroscopic study of PbSO4-anglesite at high pressures. Physics and Chemistry of Minerals, 2019, 46, 623-637.	0.3	7
533	Pressure induced phase transformations in diisopropylammonium bromide. Journal of Solid State Chemistry, 2019, 274, 182-187.	1.4	7
534	High-pressure polymorphism of BaFe2Se3. Journal of Physics Condensed Matter, 2019, 31, 085401.	0.7	12
535	Anisotropic compressional behavior of ettringite. Cement and Concrete Research, 2019, 120, 46-51.	4.6	16
536	High-pressure phase transformations in NdVO₄ under hydrostatic, conditions: a structural powder x-ray diffraction study. Journal of Physics Condensed Matter, 2019, 31, 235401.	0.7	14
537	Pressureâ€Induced Polymerization and Electrical Conductivity of a Polyiodide. Angewandte Chemie, 2019, 131, 6697-6701.	1.6	3
538	Pressure-Induced Hexagonal to Monoclinic Phase Transition of Partially Hydrated CePO₄. Inorganic Chemistry, 2019, 58, 4480-4490.	1.9	11
539	Bilayer phosphorene under high pressure: in situ Raman spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 7298-7304.	1.3	19
540	Hybrid Ni Al layered double hydroxide: Characterization and in situ synchrotron XRD and vibrational spectroscopic studies under high-pressure. Applied Clay Science, 2019, 174, 152-158.	2.6	5
541	Pressure-Induced Phase Transitions of Natural Brookite. ACS Earth and Space Chemistry, 2019, 3, 844-853.	1.2	5
542	An in situ Raman study on katoite Ca₃Al₂(O₄H₄)₃ at high pressure. Journal of Mineralogical and Petrological Sciences, 2019, 114, 18-25.	0.4	2
543	High-pressure characterization of the optical and electronic properties of InVO4, InNbO4, and InTaO4. SN Applied Sciences, 2019, 1, 1.	1.5	42

#	Article	IF	Citations
544	Permanent densification of silica glass for pressure calibration between 9 and 20â€...GPa at ambient temperature. High Pressure Research, 2019, 39, 117-130.	0.4	4
545	Dense Post-Barite-type Polymorph of PbSO₄ Anglesite at High Pressures. Inorganic Chemistry, 2019, 58, 2708-2716.	1.9	6
546	Stability of lauric acid at high pressure studied by Raman spectroscopy and picosecond acoustics. European Physical Journal B, 2019, 92, 1.	0.6	2
547	Monoclinic-tetragonal-monoclinic phase transitions in Eu_{0.1}Bi_{0.9}VO₄ under pressure. Journal of Physics Condensed Matter, 2019, 31, 485401.	0.7	7
548	The High-Pressure Structural Evolution of Olivine along the Forsteriteâ€“Fayalite Join. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	12
549	Experimental evidence of crystal symmetry protection for the topological nodal line semimetal state in ZrSiS. Physical Review B, 2019, 100, .	1.1	19
550	Intrinsic and Extrinsic Responses of ZIF-8 under High Pressure: A Combined Raman and X-ray Diffraction Investigation. Journal of Physical Chemistry C, 2019, 123, 29693-29707.	1.5	24
551	Phonon variations in nano-crystalline lutetium sesquioxide under the influence of varying temperature and pressure. Journal of Applied Physics, 2019, 126, .	1.1	9
552	Characterization of Flux-Grown Sm_xNd_{1â€“x}VO₄ Compounds and High-Pressure Behavior for x = 0.5. Journal of Physical Chemistry C, 2019, 123, 30732-30745.	1.5	6
553	Pressure-driven valence increase and metallization in the Kondo insulator Ce3Bi4Pt3. Physical Review B, 2019, 100, .	1.1	7
554	A Cr3+ luminescence study of natural topaz Al2SiO4(F,OH)2 up to 60 GPa. American Mineralogist, 2019, 104, 1656-1662.	0.9	10
555	Parallel background subtraction in diamond anvil cells for high pressure X-ray data analysis. High Pressure Research, 2019, 39, 628-639.	0.4	2
556	Pressure-induced large enhancement of NÃ©el temperature and electric polarization in the hexagonal multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">c</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Fe</mml:mi><mml:msu	1.1	15
557	Imaging stress and magnetism at high pressures using a nanoscale quantum sensor. Science, 2019, 366, 1349-1354.	6.0	129
558	Spectroscopic and ab initio studies of the pressure-induced Fe2+ high-spin-to-low-spin electronic transition in natural triphyliteâ€“lithiophilite. Physics and Chemistry of Minerals, 2019, 46, 245-258.	0.3	0
559	Pressure induced transformation and subsequent amorphization of monoclinic Nb₂O₅ and its effect on optical properties. Journal of Physics Condensed Matter, 2019, 31, 105401.	0.7	7
560	Pressure-induced structural and electronic transitions of thiospinel Fe3S4. Journal of Physics Condensed Matter, 2019, 31, 095401.	0.7	2
561	Effects of Hydrostatic Pressure on the Surface Plasmon Resonance of Gold Nanocrystals. ACS Nano, 2019, 13, 498-504.	7.3	22

#	Article	IF	Citations
562	Effects of hydrostaticity on the structural stability of carbonates at lower mantle pressures: the case study of dolomite. High Pressure Research, 2019, 39, 36-49.	0.4	9
563	High pressure structural investigations on hexagonal YInO₃. High Pressure Research, 2019, 39, 17-35.	0.4	6
564	High Pressure Structural and Optical Properties of Two-Dimensional Hybrid Halide Perovskite (CH₃NH₃)₃Bi₂Br₉. Inorganic Chemistry, 2019, 58, 1621-1626.	1.9	46
565	Structural, elastic and vibrational properties of celestite, SrSO₄, from synchrotron x-ray diffraction, thermal diffuse scattering and Raman scattering. Journal of Physics Condensed Matter, 2019, 31, 055703.	0.7	7
566	High-pressure neutron diffraction study of Pd3Fe. Journal of Applied Physics, 2019, 125, .	1.1	3
567	Thermal expansion, compressibility and bulk modulus of ilmenite-type CoTiO3: X-ray diffraction at high pressures and temperatures. Solid State Sciences, 2019, 88, 1-5.	1.5	5
568	Compressional behavior of natural eclogitic zoisite by synchrotron X-ray single-crystal diffraction to 34 GPa. Physics and Chemistry of Minerals, 2019, 46, 333-341.	0.3	3
569	Polymorphism of Mg-monohydrate sulfate kieserite under pressure and its occurrence on giant icy jovian satellites. Icarus, 2020, 336, 113459.	1.1	11
570	The effect of pressure and temperature on the structure and electrical transport properties of MoO2. Journal of Alloys and Compounds, 2020, 814, 152336.	2.8	9
571	Orpiment under compression: metavalent bonding at high pressure. Physical Chemistry Chemical Physics, 2020, 22, 3352-3369.	1.3	20
572	Cunning defects: emission control by structural point defects on Cu(<scp>i</scp>)I double chain coordination polymers. Journal of Materials Chemistry C, 2020, 8, 1448-1458.	2.7	11
573	Crystal Structure and Stability of Ammonium Azide Under High Pressure. Journal of Physical Chemistry C, 2020, 124, 135-142.	1.5	4
574	An Isosymmetric High-Pressure Phase Transition in Î±-Glycylglycine: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry B, 2020, 124, 1-10.	1.2	14
575	Exploiting optical properties of nanopolycrystalline diamond in high pressure experiments. High Pressure Research, 2020, 40, 107-118.	0.4	1
576	Pressure and Temperature Effects on Low-Density Mg₃Ca(CO₃)₄ Huntite Carbonate. Journal of Physical Chemistry C, 2020, 124, 1077-1087.	1.5	11
577	Topaz, a Potential Volatile-Carrier in Cold Subduction Zone: Constraint from Synchrotron X-ray Diffraction and Raman Spectroscopy at High Temperature and High Pressure. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.8	5
578	Pressure-Induced Polymerization of Polycyclic Areneâ€“Perfluoroarene Cocrystals: Single Crystal X-ray Diffraction Studies, Reaction Kinetics, and Design of Columnar Hydrofluorocarbons. Journal of the American Chemical Society, 2020, 142, 18907-18923.	6.6	47
579	Lattice distortion and stability of (Co0.2Cu0.2Mg0.2Ni0.2Zn0.2)O high-entropy oxide under high pressure. Materials Today Advances, 2020, 8, 100102.	2.5	15

#	Article	IF	Citations
580	Effect of High Pressure on the Dielectric Properties of SrMoO₄. Journal of Physical Chemistry C, 2020, 124, 17932-17938.	1.5	8
581	High-pressure structural behavior and elastic properties of U3Si5: A combined synchrotron XRD and DFT study. Journal of Nuclear Materials, 2020, 540, 152373.	1.3	4
582	CaCu₃Ti₄O₁₂: Pressure dependence of electronic and vibrational structures. Journal of Physics: Conference Series, 2020, 1609, 012005.	0.3	3
583	Pressure-induced phase separation of miscible liquids: 1â€‰:â€‰1 n-pentane/iso-pentane. CrystEngComm, 2020, 22, 8251-8255.	1.3	2
584	Mesoporous Metalâ€“Organic Framework MIL-101 at High Pressure. Journal of the American Chemical Society, 2020, 142, 15012-15019.	6.6	37
585	Controlling the thermoelectric power of siliconâ€“germanium alloys in different crystalline phases by applying high pressure. CrystEngComm, 2020, 22, 5416-5435.	1.3	17
586	Suppression of magnetic ordering in Fe-deficient <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>3</mml:mn> mathvariant="normal">Te</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> from application of pressure. Physical Review B, 2020, 102, .	1.1	9
587	Structural characteristics of HfO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1977" altimg="si89.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> under extreme conditions. Materials Chemistry and Physics, 2020, 255, 123633.	2.0	12
588	Pressure-Induced Collapse of Magnetic Order in Jarosite. Physical Review Letters, 2020, 125, 077202.	2.9	3
589	Pressure media for high pressure experiments, Daphne Oil 7000 series. High Pressure Research, 2020, 40, 525-536.	0.4	22
590	High-pressure behaviour and phase stability of Ca2B6O6(OH)10Â·2(H2O) (meyerhofferite). Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	6
591	Spin Transitions and Compressibility of Îµâ€Fe 7 N 3 and Î³â€²â€Fe 4 N: Implications for Iron Alloys in Terrestrial Planet Cores. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020660.	1.4	4
592	Pressure dependence of the interlayer and intralayer E2g Raman-active modes of hexagonal BN up to the wurtzite phase transition. Physical Review B, 2020, 102, .	1.1	12
593	Phase stability of the layered oxide, Ca2Mn3O8; probing interlayer shearing at high pressure. Materials Advances, 2020, 1, 1841-1848.	2.6	0
594	Pressure induced lattice expansion and phonon softening in layered ReS2. Journal of Applied Physics, 2020, 128, 085904.	1.1	15
595	Microstructural effects and mechanism of bcc-hcp-bcc transformations in polycrystalline iron. Physical Review B, 2020, 102, .	1.1	23
596	Thermal Pressure in the Laserâ€Heated Diamond Anvil Cell: A Quantitative Study and Implications for the Density Versus Mineralogy Correlation of the Mantle. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020006.	1.4	6
597	Highâ€pressure behavior and phase stability of Na 2 B 4 O 6 (OH) 2 Â·3H 2 O (kernite). Journal of the American Ceramic Society, 2020, 103, 5291-5301.	1.9	11

#	Article	IF	Citations
598	Comparative Compressibility of Smectite Group under Anhydrous and Hydrous Environments. Materials, 2020, 13, 3784.	1.3	3
599	Phase Stability of Natural Ni_{0.75}Mg_{0.22}Ca_{0.03}CO₃ Gaspeite Mineral at High Pressure and Temperature. Journal of Physical Chemistry C, 2020, 124, 19781-19792.	1.5	9
600	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
601	Pressure-induced crystallization of an amorphous martensite alloy. Journal of Applied Physics, 2020, 128, 085901.	1.1	0
602	Raman Fingerprint of Pressure-Induced Phase Transitions in TiS₃ Nanoribbons: Implications for Thermal Measurements under Extreme Stress Conditions. ACS Applied Nano Materials, 2020, 3, 8794-8802.	2.4	15
603	Structural regulation and optical behavior of three-dimensional metal halide perovskites under pressure. Journal of Materials Chemistry C, 2020, 8, 12755-12767.	2.7	20
604	Phonon-based partition of (ZnSe-like) semiconductor mixed crystals on approach to their pressure-induced structural transition. Scientific Reports, 2020, 10, 19803.	1.6	3
605	Structural analysis of high-pressure phase for skyrmion-hosting multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2020, 102, .	1.1	0
606	Phase Stability and Vibrational Properties of Iron-Bearing Carbonates at High Pressure. Minerals (Basel, Switzerland), 2020, 10, 1142.	0.8	11
607	Structural Study of Î´-AlOOH Up to 29 GPa. Minerals (Basel, Switzerland), 2020, 10, 1055.	0.8	8
608	Low-temperature and high-pressure Raman spectroscopy of 2-hydroxy-3,4,6-trimethoxyacetophenone isolated from the Croton anisodontus MÃ¼ll.Arg.. Vibrational Spectroscopy, 2020, 110, 103143.	1.2	2
609	Compression of sodium-filled and empty open-framework<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Si</mml:mi><mml:mn>24</mml:mn></mml:msub></m quasihydrostatic and nonhydrostatic conditions. Physical Review B, 2020, 102, .	1.1	3
610	Coupled magnetic and structural phase transitions in the antiferromagnetic polar metal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Pb</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math> under pressure. Physical Review B, 2020, 102, .	1.1	5
611	High-Pressure Structural Behavior and Equation of State of Kagome Staircase Compound, Ni3V2O8. Crystals, 2020, 10, 910.	1.0	11
612	Effect of High Pressure on the Crystal Structures of Polymorphs of <scp>l</scp>-Histidine. Crystal Growth and Design, 2020, 20, 7788-7804.	1.4	15
613	Pressure induced phase transitions in BaZr(PO4)2 studied using x-ray diffraction, Raman spectroscopy, and first principles calculations. Journal of Applied Physics, 2020, 127, .	1.1	2
614	Alloxan under pressureâ€“squeezing an extremely dense molecular crystal structure. Chemical Communications, 2020, 56, 6428-6431.	2.2	3
615	Potential Interaction of Noble Gas Atoms and Anionic Electrons in Ca₂N. Journal of Physical Chemistry C, 2020, 124, 12213-12219.	1.5	3

#	Article	IF	Citations
616	Strain and Piezo-Doping Mismatch between Graphene Layers. Journal of Physical Chemistry C, 2020, 124, 11193-11199.	1.5	15
617	Comparative study of the high-pressure behavior of ZnV2O6, Zn2V2O7, and Zn3V2O8. Journal of Alloys and Compounds, 2020, 837, 155505.	2.8	28
618	Structural Variety of Alkali Hydrogen Maleates at High Pressure. Crystal Growth and Design, 2020, 20, 4375-4386.	1.4	4
619	Tantalum doping in HfO₂: orthorhombic phase formation at ambient conditions and change in path of pressure-induced structural evolution. High Pressure Research, 2020, 40, 434-443.	0.4	3
620	High-pressure characterization of multifunctional CrVO₄. Journal of Physics Condensed Matter, 2020, 32, 385403.	0.7	12
621	Raman spectroscopic constraints on compression and metastability of the amphibole tremolite at high pressures and temperatures. Physics and Chemistry of Minerals, 2020, 47, 1.	0.3	5
622	Crystal Structure, Lattice Dynamics, and Thermodynamic Properties of a Thermoelectric Orthorhombic BaCu₂Se₂ Compound. Journal of Physical Chemistry C, 2020, 124, 13627-13638.	1.5	6
623	Pressure-induced amorphization of the Y3Ga5O12 garnet studied to 1ÂMbar. Journal of Alloys and Compounds, 2020, 830, 154678.	2.8	0
624	A Practical Review of the Laser-Heated Diamond Anvil Cell for University Laboratories and Synchrotron Applications. Crystals, 2020, 10, 459.	1.0	46
625	Structural stability of Sc₃CrO₆: A Raman spectroscopic study. Journal of Raman Spectroscopy, 2020, 51, 1362-1371.	1.2	2
626	Phase Behavior of TmVO₄ under Hydrostatic Compression: An Experimental and Theoretical Study. Inorganic Chemistry, 2020, 59, 4882-4894.	1.9	10
627	Effect of Extra-Framework Cations on Negative Linear Compressibility and High-Pressure Phase Transitions: A Study of KCd[Ag(CN)₂]₃. Journal of Physical Chemistry C, 2020, 124, 6896-6906.	1.5	5
628	Plasmonic Sensing of Refractive Index and Density in Methanolâ€“Ethanol Mixtures at High Pressure. Journal of Physical Chemistry C, 2020, 124, 8978-8983.	1.5	12
629	Axial Compressibility and Thermal Equation of State of Hcp Feâ€“5wt% Niâ€“5wt% Si. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /O	0.8	8
630	Picosecond Acoustics Technique to Measure the Sound Velocities of Fe-Si Alloys and Si Single-Crystals at High Pressure. Minerals (Basel, Switzerland), 2020, 10, 214.	0.8	3
631	Practical effects of pressure-transmitting media on neutron diffraction experiments using Parisâ€“Edinburgh presses. High Pressure Research, 2020, 40, 325-338.	0.4	4
632	Characterization and Decomposition of the Natural van der Waals SnSb₂Te₄ under Compression. Inorganic Chemistry, 2020, 59, 9900-9918.	1.9	31
633	In situ control of the helical and skyrmion phases in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">OSeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> using high-pressure helium gas up to 5 kbar. Physical Review B, 2020, 101, .	1.1	3

#	Article	IF	Citations
634	CdSe-Based Quantum Dots as In Situ Pressure and Temperature Non-intrusive Sensors in Elastohydrodynamic Contacts. Tribology Letters, 2020, 68, 1.	1.2	6
635	Pressure-Induced Superconductivity in the Wide-Band-Gap Semiconductor Cu2Br2Se6 with a Robust Framework. Chemistry of Materials, 2020, 32, 6237-6246.	3.2	6
636	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
637	Behaviour of polyhedra in Sr2NiMoO6 at high pressure and temperature. Journal of Solid State Chemistry, 2020, 290, 121474.	1.4	0
638	Deviatoric stress-induced quasi-reconstructive phase transition in ZnTe. Journal of Materials Chemistry C, 2020, 8, 3795-3799.	2.7	8
639	Elastic properties of single crystal Bi₁₂SiO₂₀ as a function of pressure and temperature and acoustic attenuation effects in Bi₁₂MO₂₀ (MÂ=ÂSi, Ge and Ti). Materials Research Express, 2020, 7, 025701.	0.8	7
640	A perspective on conventional high-temperature superconductors at high pressure: Methods and materials. Physics Reports, 2020, 856, 1-78.	10.3	304
641	Pressure-Induced Amorphization of Diisopropylammonium Perchlorate Studied by Raman Spectroscopy and X-ray Diffraction. Journal of Physical Chemistry A, 2020, 124, 1993-2000.	1.1	6
642	Anomalous lattice stiffening in tungsten tetraboride solid solutions with manganese under compression. Journal of Physics Condensed Matter, 2020, 32, 165702.	0.7	2
643	Experimental and simulation study of the high-pressure behavior of squalane and poly-Î±-olefins. Journal of Chemical Physics, 2020, 152, 074504.	1.2	22
644	Probing Local Pressure Environment in Anvil Cells with Nitrogen-Vacancy (N- <mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 352 Td (x Centers in Diamond. Physical Review Applied, 2020, 13, .	1.5	16
645	Highlighting the impact of shear strain on the SiO2 glass structure: From experiments to atomistic simulations. Journal of Non-Crystalline Solids, 2020, 533, 119898.	1.5	16
646	Selected Negative Linear Compressibilities in the Metalâ€“Organic Framework of [Cu(4,4â€²-bpy)₂(H₂O)₂]Â·SiF₆. Inorganic Chemistry, 2020, 59, 1715-1722.	1.9	19
647	A novel approach to the structural distortions of U/Th snub-disphenoids and their control on zirconâ€‰â€‰â†’â€‰â€‰reidite type phase transitions of U1âˆ’x Th x SiO4. Journal of Physics Condensed Matter, 2020, 32, 145401.	0.7	3
648	Pressure-modulated lattice structural evolution in multilayer ZrS3. Journal of Alloys and Compounds, 2020, 823, 153808.	2.8	4
649	Raman spectroscopy and Xâ€ray diffraction of pressureâ€induced reversible structure change in K 2 OsO 2 (OH) 4. Journal of Raman Spectroscopy, 2020, 51, 1240-1247.	1.2	4
650	Structure and Behavior of the Ni End-Member Schreibersite Ni3P under Compression to 50 GPa. Minerals (Basel, Switzerland), 2020, 10, 306.	0.8	2
651	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

#	Article	IF	Citations
652	Single-Crystal High-Pressure X-ray Diffraction Study of Host Structure Compression in Clathrates of Dianinâ€™s Compound. Crystal Growth and Design, 2020, 20, 4092-4099.	1.4	5
653	The role of elastic anisotropy in determining the depth of formation for diamonds and their inclusions. Rendiconti Lincei, 2020, 31, 285-293.	1.0	3
654	Pressure-Induced Dimerization of C60 at Room Temperature as Revealed by an In Situ Spectroscopy Study Using an Infrared Laser. Crystals, 2020, 10, 182.	1.0	4
655	Influence of varying thermodynamic parameters on the structural behavior of nano-crystalline europium sesquioxide. Journal of Alloys and Compounds, 2021, 856, 158129.	2.8	5
656	Suppression of isotopic polymorphism. CrystEngComm, 2021, 23, 769-776.	1.3	4
657	Crystal Structure and Nonâ€Hydrostatic Stressâ€Induced Phase Transition of Urotropine Under High Pressure. Chemistry - A European Journal, 2021, 27, 1094-1102.	1.7	7
658	Spectroscopic evidence for the Fe 3+ spin transition in iron bearing Î´-AlOOH at high pressure. American Mineralogist, 2021, , .	0.9	5
659	High-temperature and high-pressure Raman spectra of Fo89Fa11 and Fo58Fa42 olivines: Iron effect on thermodynamic properties. American Mineralogist, 2021, 106, 1668-1678.	0.9	3
660	Comprehensive determination of the high-pressure structural behaviour of BaTiO₃. Materials Advances, 2021, 2, 6094-6103.	2.6	5
661	An X-ray diffraction and Raman spectroscopic study of the high-pressure behavior of gaspÃ©ite (Ni0.73Mg0.27CO3). Physics and Chemistry of Minerals, 2021, 48, 1.	0.3	2
662	Wrinkle and near-resonance effects on the vibrational and electronic properties in compressed monolayer MoSe₂. Physical Chemistry Chemical Physics, 2021, 23, 11709-11716.	1.3	3
663	Structural, vibrational and electronic properties of Î±â€²-Ga₂S₃ under compression. Physical Chemistry Chemical Physics, 2021, 23, 6841-6862.	1.3	8
664	A combined synchrotron diffraction and first-principles investigation on structural properties of Co(OH)2under pressure up to 7 GPa. Europhysics Letters, 2021, 133, 16002.	0.7	1
665	Optical pressure and temperature sensing properties of Nd³⁺:YTaO₄. Physical Chemistry Chemical Physics, 2021, 23, 23380-23388.	1.3	4
666	Direct evidence for distinct colour origins in ROY polymorphs. Chemical Science, 2021, 12, 12711-12718.	3.7	13
667	Pressure-induced chemical decomposition of copper orthovanadate (Î±-Cu₃V₂O₈). Journal of Materials Chemistry C, 2021, 9, 13402-13409.	2.7	12
668	Determining the structure of zeolite frameworks at high pressures. CrystEngComm, 2021, 23, 5615-5623.	1.3	6
669	The distortion of two FePO4 polymorphs with high pressure. Materials Advances, 2021, 2, 5096-5104.	2.6	3

#	Article	IF	Citations
670	Formation of short-range magnetic order and avoided ferromagnetic quantum criticality in pressurized <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaCrGe</mml:mi><mml:mn>3</mml:mn></mml:msub></ Physical Review B, 2021, 103, .	1.1	21
671	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
672	Noble gas incorporation into silicate glasses: implications for planetary volatile storage. Geochemical Perspectives Letters, 0, 17, 1-5.	1.0	4
673	Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites Hg3Te2X2 (Xâ€‰=â€‰Cl, Br). Nature Communications, 2021, 12, 1509.	5.8	14
674	Anomalous Behavior in the Atomic Structure of Nb3Sn under High Pressure. Crystals, 2021, 11, 331.	1.0	3
675	Polymorphs of the Gadoliniteâ€Type Borates ZrB₂O₅ and HfB₂O₅ Under Extreme Pressure. Chemistry - A European Journal, 2021, 27, 6007-6014.	1.7	6
676	High-pressure vibrational spectra of humite-group minerals: Fluorine effect on thermodynamic properties and hydrogen bonds. Physics of the Earth and Planetary Interiors, 2021, 312, 106654.	0.7	6
677	From Semiconducting to Metallic: Jahnâ€“Teller-Induced Phase Transformation in Skyrmion Host GaV4S8. Journal of Physical Chemistry C, 2021, 125, 5771-5780.	1.5	7
678	Raman signatures of the distortion and stability of MgCO3 to 75 GPa. American Mineralogist, 2021, 106, 367-373.	0.9	8
679	Intercalation of Water in Kaolinite (Al₂Si₂O₅(OH)₄) at Subduction Zone Conditions: Insights from Raman Spectroscopy. ACS Earth and Space Chemistry, 2021, 5, 834-848.	1.2	11
680	Hydrostaticity in high pressure experiments: some general observations and guidelines for high pressure experimenters. High Pressure Research, 2021, 41, 155-174.	0.4	15
681	Equation of State for Natural Almandine, Spessartine, Pyrope Garnet: Implications for Quartz-In-Garnet Elastic Geobarometry. Minerals (Basel, Switzerland), 2021, 11, 458.	0.8	2
682	High-pressure and high-temperature vibrational properties and anharmonicity of carbonate minerals up to 6 GPa and 500 Â°C by Raman spectroscopy. American Mineralogist, 2021, 106, 581-598.	0.9	7
683	A Review of the Melting Curves of Transition Metals at High Pressures Using Static Compression Techniques. Crystals, 2021, 11, 416.	1.0	20
684	Optical properties of Nd3+ ions doped GdTaO4 for pressure and temperature sensing. Journal of Rare Earths, 2022, 40, 870-877.	2.5	15
685	High-pressure monoclinicâ€“monoclinic transition in fergusonite-type HoNbO₄. Journal of Physics Condensed Matter, 2021, 33, 195401.	0.7	9
686	Polymorphism of praseodymium orthovanadate under high pressure. Physical Review B, 2021, 103, .	1.1	7
687	Crystal Structure of BaCa(CO3)2 Alstonite Carbonate and Its Phase Stability upon Compression. ACS Earth and Space Chemistry, 2021, 5, 1130-1139.	1.2	11

#	Article	IF	Citations
688	Unveiling the Structural Behavior under Pressure of Filled M_{0.5}Co₄Sb₁₂ (M = K, Sr, La, Ce, and Yb) Thermoelectric Skutterudites. Inorganic Chemistry, 2021, 60, 7413-7421.	1.9	8
689	Local insight to the structural phase transition sequence of Bi₂Se₃ under quasi-hydrostatic and nonhydrostatic pressure. Journal of Physics Condensed Matter, 2021, 33, 215402.	0.7	3
690	Effect of cationic substitution on the pressure-induced phase transitions in calcium carbonate. American Mineralogist, 2021, 106, 549-558.	0.9	4
691	Persistent Negative Compressibility Coupled to Optical Modulation in Empty-Perovskite TiOF₂. Journal of Physical Chemistry C, 2021, 125, 8869-8875.	1.5	7
692	Structural transitions of 4:1 methanolâ€“ethanol mixture and silicone oil under high pressure. Matter and Radiation at Extremes, 2021, 6, .	1.5	24
693	Pressure- and temperature-dependent luminescence from Tm³⁺ ions doped in GdYTaO₄. Chinese Physics B, 2022, 31, 017101.	0.7	0
694	Shear strength measurements and hydrostatic compression of rhenium diboride under high pressures. Journal of Applied Physics, 2021, 129, 205901.	1.1	4
695	Squeezing Out the Catalysts: A Sustainable Approach to Disulfide Bond Exchange in Aryl Disulfides. ACS Sustainable Chemistry and Engineering, 2021, 9, 7171-7178.	3.2	6
696	In situ synchrotron diffraction of pressure-induced phase transition in DyPO4 under variable hydrostaticity. Physical Review B, 2021, 103, .	1.1	3
697	Pressure effects on vibrational properties and structure of nanocrystalline Cu2ZnSnS4. Journal of Alloys and Compounds, 2021, 867, 159041.	2.8	3
698	Internal resistive heating of non-metallic samples to 3000ÂK and >60ÂGPa in the diamond anvil cell. Review of Scientific Instruments, 2021, 92, 063904.	0.6	5
699	Compressibility and Phase Stability of Iron-Rich Ankerite. Minerals (Basel, Switzerland), 2021, 11, 607.	0.8	7
700	Semiconductor-to-metal transition in HfSe2 under high pressure. Journal of Alloys and Compounds, 2021, 867, 158923.	2.8	12
701	Crystal Structure Evolution of CaSiO3 Polymorphs at Earthâ€™s Mantle Pressures. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	11
702	Mechanical properties of graphene. Applied Physics Reviews, 2021, 8, .	5.5	37
703	High-pressure behavior of heteroepitaxial coreâ€“shell particles made of Prussian blue analogs. Journal of Applied Physics, 2021, 129, 235106.	1.1	2
704	Structural, Vibrational, and Electronic Properties of 1D-TlInTe₂ under High Pressure: A Combined Experimental and Theoretical Study. Inorganic Chemistry, 2021, 60, 9320-9331.	1.9	6
705	GdBO3 and YBO3 crystals under compression. Journal of Alloys and Compounds, 2021, 866, 158962.	2.8	3

#	Article	IF	Citations
706	Phase transition and high-pressure behavior of ulexite, a potential aggregate in radiation-shielding concretes. Construction and Building Materials, 2021, 291, 123188.	3.2	9
707	Compression effect on structure of the Li-stabilized high-temperature phase of Mn3(VO4)2 with composition Li0.2Mn2.9(VO4)2 - Raman spectroscopic and X-ray diffraction investigations. Journal of Alloys and Compounds, 2021, 870, 159418.	2.8	9
708	High-pressure behavior of disodered kesterite-type Cu2ZnSnS4. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
709	Equations of state of new boron-rich selenides B₆Se and B₁₂Se. High Pressure Research, 2021, 41, 267-274.	0.4	4
710	Structureâ€"Reactivity Relationship in the High-Pressure Formation of Double-Core Carbon Nanothreads from Azobenzene Crystal. Journal of Physical Chemistry C, 2021, 125, 17174-17182.	1.5	13
711	High pressure structural evolution of cubic solid solution YbInO3. Journal of Applied Physics, 2021, 130, .	1.1	3
712	High Pressure Brillouin Spectroscopy and X-ray Diffraction of Cerium Dioxide. Materials, 2021, 14, 3683.	1.3	1
713	Stability and equation of state of face-centered cubic and hexagonal close packed phases of argon under pressure. Scientific Reports, 2021, 11, 15192.	1.6	10
714	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO₃)₂. Journal of Physical Chemistry C, 2021, 125, 17448-17461.	1.5	14
715	Powder conductor for pressure calibration applied to large volume press under high pressure. Review of Scientific Instruments, 2021, 92, 073903.	0.6	0
716	Pressure-induced structural phase transition in corundum-related class Cu₃TeO₆. High Pressure Research, 2021, 41, 318-327.	0.4	2
717	High-pressure Raman study of osmium and rhenium up to 200 GPa and pressure dependent elastic shear modulus C 44. Chinese Physics B, 0, , .	0.7	0
718	X-ray spectroscopic and first-principles investigation of lead tungstate under pressure. Physical Review B, 2021, 104, .	1.1	3
719	Hydrate vs Anhydrate under a Pressure-(De)stabilizing Effect of the Presence of Water in Solid Forms of Sulfamethoxazole. Crystal Growth and Design, 2021, 21, 6879-6888.	1.4	5
720	Pressure dependent thermoreflectance spectroscopy induced by interband transitions in metallic nano-film. IScience, 2021, 24, 102990.	1.9	5
721	Pressure-induced atomic packing change in Pd37Ni37S26 metallic glass. Acta Materialia, 2021, 216, 117116.	3.8	3
722	Anomalous enhancement of atomic vibration induced by electronic transition in 2H-MoTe2 under compression. Journal of Physics Condensed Matter, 2021, 34, .	0.7	1
723	Phase transformations of zircon-type DyVO4 at high pressures up to 36.4ÂGPa: X-ray diffraction measurements. Journal of Alloys and Compounds, 2021, 875, 159926.	2.8	5

#	Article	IF	Citations
724	The role of intrinsic stacking fault in facilitating the pressure-induced phase transition in CoCrFeMnNi high entropy alloys. Materials Chemistry and Physics, 2022, 275, 125273.	2.0	2
725	Increasing Doping Solubility of RE³⁺ Ions in Fergusonite BiVO₄ via Pressure-Induced Phase Transition. Journal of Physical Chemistry C, 2021, 125, 22388-22395.	1.5	7
726	Strength, deformation, and equation of state of tungsten carbide to 66 GPa. Acta Materialia, 2021, 220, 117301.	3.8	2
727	A multi-faceted experimental study on the dynamic behavior of MgSiO3 glass in the Earthâ€™s deep interior. American Mineralogist, 2022, 107, 1313-1324.	0.9	2
728	High-pressure plastic deformation of lead metasilicate glass accessed by Raman spectroscopy: Insights into the Qn distribution. Journal of Non-Crystalline Solids, 2021, 567, 120930.	1.5	6
729	Mg-sursassite thermo-elastic parameters and its relevance as a water carrier in subducting slabs. American Mineralogist, 2021, , .	0.9	0
730	Behavior of copper under high pressure: Experimental and theoretical analyses. Current Applied Physics, 2021, 31, 93-98.	1.1	4
731	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa2S4 and HgGa2S4. Journal of Alloys and Compounds, 2021, 886, 161226.	2.8	6
732	High-pressures study by Raman spectroscopy and DFT calculations of L-tyrosine hydrobromide crystal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 263, 120142.	2.0	2
733	Compression tuned crystalline and amorphous phases of Gd2Si2O7: Raman spectroscopic and first-principles studies. Journal of Alloys and Compounds, 2022, 890, 161864.	2.8	0
734	Electronic properties and high-pressure behavior of wolframite-type CoWO₄. Materials Advances, 2021, 2, 5955-5966.	2.6	14
735	Laser-induced crystallization and phase transitions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> under high pressure. Physical Review B, 2021, 103, .	1.1	0
736	Evaluating the high-pressure structural response and crystal lattice interactions of the magnetically-bistable organic radical TTTA. CrystEngComm, 2021, 23, 4444-4450.	1.3	6
737	Unveiling the role of the lone electron pair in sesquioxides at high pressure: compressibility of Î²-Sb₂O₃. Dalton Transactions, 2021, 50, 5493-5505.	1.6	7
738	Synchrotron and FEL Studies of Matter at High Pressures. , 2020, , 1857-1896.		2
740	Pressure Probes. Springer Series in Solid-state Sciences, 2015, , 173-204.	0.3	6
741	PrVO₄ under High Pressure: Effects on Structural, Optical, and Electrical Properties. Inorganic Chemistry, 2020, 59, 18325-18337.	1.9	8
742	Understanding the Pressure Effect on the Elastic, Electronic, Vibrational, and Bonding Properties of the CeScO₃ Perovskite. Journal of Physical Chemistry C, 2021, 125, 107-119.	1.5	17

#	Article	IF	Citations
743	Piezochromic luminescence in all-inorganic coreâ€“shell InP/ZnS nanocrystals via pressure-modulated strain engineering. Nanoscale Horizons, 2020, 5, 1233-1239.	4.1	15
745	Inelastic x-ray scattering studies of phonon dispersions in superconductors at high pressures. Superconductor Science and Technology, 2020, 33, 124004.	1.8	3
746	Data preservation in pressure measurement. Journal of Physics: Conference Series, 2020, 1609, 012002.	0.3	2
747	Atomic-layered MoS2 on SiO2 under high pressure: Bimodal adhesion and biaxial strain effects. Physical Review Materials, 2017, 1, .	0.9	21
748	High-pressure behavior of CaMoO4. Physical Review Materials, 2017, 1, .	0.9	15
749	Pressure-induced multiband superconductivity in pyrite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PtB</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> with perfect electron-hole compensation. Physical Review Materials, 2018, 2, .	0.9	9
750	Understanding cracking behavior of glass from its response to hydrostatic compression. Physical Review Materials, 2020, 4, .	0.9	2
751	X-ray magnetic diffraction under high pressure. IUCrJ, 2019, 6, 507-520.	1.0	6
752	Raman modes of carbonate minerals as pressure and temperature gauges up to 6 GPa and 500Â°C. American Mineralogist, 2018, , .	0.9	7
753	Near-absolute equations of state of diamond, Ag, Al, Au, Cu, Mo, Nb, Pt, Ta, and W for quasi-hydrostatic conditions. Geodinamika I Tektonofizika, 2012, 3, 129-166.	0.3	46
754	Pressure-induced orderâ€“disorder transitions in Î²-In₂S₃: an experimental and theoretical study of structural and vibrational properties. Physical Chemistry Chemical Physics, 2021, 23, 23625-23642.	1.3	3
755	On the Stiffness of Gold at the Nanoscale. ACS Nano, 2021, 15, 19128-19137.	7.3	12
756	Strain induced electronic transition in 1Tâ€²â€‰MoTe₂: high pressure Raman, x-ray diffraction, resistivity measurements and first principles theoretical studies. Electronic Structure, 2021, 3, 045002.	1.0	3
757	Layer-Dependent Pressure Effect on the Electronic Structure of 2D Black Phosphorus. Physical Review Letters, 2021, 127, 186401.	2.9	17
758	Unusual suppression of tungsten 5d electron depletion in superhard tungsten tetraboride solid solution with chromium under compression. Journal of Physics Condensed Matter, 2022, 34, 035401.	0.7	1
759	Pressure Effects on Leadâ€Free Metal Halide Perovskites: a Route to Design Optimized Materials for Photovoltaics. Solar Rrl, 2021, 5, 2100550.	3.1	15
760	Development and Application of Piston-cylinder Type Clamp Cells for Neutron Diffraction. Hamon, 2010, 20, 151-157.	0.0	0
761	Introduction to High-Pressure Science. NATO Science for Peace and Security Series B: Physics and Biophysics, 2010, , 1-9.	0.2	0

#	Article	IF	Citations
762	The Phonon Percolation Scheme for Alloys: Extension to the Entire Lattice Dynamics and Pressure Dependence. Japanese Journal of Applied Physics, 2011, 50, 05FE02.	0.8	0
765	Raman spectra based pressure calibration of the non-gauge sapphire anvil cell at high temperature and high pressure. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 149101.	0.2	0
766	Synchrotron and FEL Studies of Matter at High Pressures. , 2019, , 1-40.		0
767	Structural correlations in Cs_2CuCl_4: Pressure dependence of electronic structures. Papers in Physics, 0, 11, 110004.	0.2	1
768	Multi-phase equation of state of ultrapure hafnium to 120 GPa. Journal of Physics Condensed Matter, 2022, 34, 055401.	0.7	2
769	Glycine: The Gift that Keeps on Giving. Israel Journal of Chemistry, 2021, 61, 828-850.	1.0	14
770	Raman spectroscopy at high pressure and temperature for the study of the Earthâ€™s mantle and planetary minerals. , 0, , 367-390.		4
771	Pressure-induced suppression of ferromagnetism in CePd2P2. Physical Review B, 2020, 102, .	1.1	2
772	Pressure-induced Pbâ€“Pb bonding and phase transition in Pb₂SnO₄. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2020, 76, 979-991.	0.5	8
773	Structural stability and anharmonicity of phonon modes of metastable Zn4V2O9: In-situ Raman spectroscopic investigation. Journal of Alloys and Compounds, 2022, 895, 162662.	2.8	5
774	Tuning the onset pressure of pressure-induced phase transition in indium phosphide by extrinsic doping. Journal of Physics and Chemistry of Solids, 2022, 161, 110487.	1.9	1
775	Grain size dependent high-pressure elastic properties of ultrafine micro/nanocrystalline grossular. Scientific Reports, 2021, 11, 22481.	1.6	0
776	Recovering local structure information from high-pressure total scattering experiments. Journal of Applied Crystallography, 2021, 54, 1546-1554.	1.9	5
777	Use of a miniature diamond-anvil cell in a joint X-ray and neutron high-pressure study on copper sulfate pentahydrate. IUCrJ, 2022, 9, 73-85.	1.0	2
778	Highâ€Pressure Elasticity of Îˆâ€(Al,Fe)OOH Single Crystals and Seismic Detectability of Hydrous MORB in the Shallow Lower Mantle. Geophysical Research Letters, 2021, 48, e2021GL094185.	1.5	7
779	Adapting a continuous flow cryostat and a plate DAC to do high pressure Raman experiments at low temperatures. Review of Scientific Instruments, 2021, 92, 123902.	0.6	0
780	Understanding the Efficiency of Mn⁴⁺ Phosphors: Study of the Spinel Mg₂Ti_{1â€“x}Mn_xO₄. Journal of Physical Chemistry C, 2021, 125, 27118-27129.	1.5	11
781	Role of the valence state and resistance in the anomalous compression of modulated scheelite tungstates <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>R</mml:mi><mml:mi>E</mml:mi></mml:mrow> (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 52 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow> Physical Review Materials, 2021, 5, .	0.9	3

#	Article	IF	Citations
783	Raman and first-principles study of the pressure-induced Mott-insulator to metal transition in bulk FePS3. Journal of Physics and Chemistry of Solids, 2022, 164, 110607.	1.9	9
784	Structural phase transitions in flexible DUT-8(Ni) under high hydrostatic pressure. Physical Chemistry Chemical Physics, 2022, 24, 3788-3798.	1.3	11
785	High-Pressure Investigation of 2,4,6-Trinitro-3-bromoanisole (TNBA): Structural Determination and Piezochromism. Journal of Physical Chemistry C, 2022, 126, 1176-1187.	1.5	5
786	Exceptional phonon point versus free phonon coupling in Zn1â^'xBexTe under pressure: an experimental and ab initio Raman study. Scientific Reports, 2022, 12, 753.	1.6	2
787	High pressure studies of 2D materials and heterostructures: A review. Materials and Design, 2022, 213, 110363.	3.3	35
788	Equation of state of a new calcium magnesium silicate compound with the composition Ca3MgSi2O8 at pressures up to 23 GPa and ambient T. Physics and Chemistry of Minerals, 2022, 49, 1.	0.3	0
789	High-pressure behaviour and atomic-scale deformation mechanisms in inyoite, CaB3O3(OH)5Â·4H2O. Physics and Chemistry of Minerals, 2022, 49, 1.	0.3	5
790	Pressure-Induced Structural Behavior of Orthorhombic Mn₃(VO₄)₂: Raman Spectroscopic and X-ray Diffraction Investigations. ACS Omega, 2022, 7, 3099-3108.	1.6	8
791	Effects of hydrostaticity and Mn-substitution on dolomite stability at high pressure. American Mineralogist, 2022, 107, 2234-2241.	0.9	6
792	Pressure-induced two-dimensional to three-dimensional structural phase transition in 2H-type layered lead iodide PbI2. Applied Physics Letters, 2022, 120, .	1.5	9
793	Monoclinicâ€“triclinic phase transition induced by pressure in fergusonite-type YbNbO₄. Journal of Physics Condensed Matter, 2022, 34, 174007.	0.7	7
794	Optical spectroscopy of the Sr₄Al₁₄O₂₅:Mn⁴⁺,Cr³⁺ phosphor: pressure and temperature dependences. Journal of Materials Chemistry C, 2022, 10, 6380-6391.	2.7	9
795	sp²-to-sp³ transitions in graphite during cold-compression. Physical Chemistry Chemical Physics, 2022, 24, 10561-10566.	1.3	2
796	Improvement of nano-polycrystalline diamond anvil cells with Zr-based bulk metallic glass cylinder for higher pressures: application to Laue-TOF diffractometer. High Pressure Research, 2022, 42, 121-135.	0.4	2
797	Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting Î²-Cu₂V₂O₇. Inorganic Chemistry, 2022, 61, 3697-3707.	1.9	7
798	High-Pressure Properties of Wolframite-Type ScNbO₄. Journal of Physical Chemistry C, 2022, 126, 4664-4676.	1.5	14
799	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. Physical Review B, 2022, 105, .	1.1	9
800	A first-order phase transition in Blatter's radical at high pressure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 107-116.	0.5	2

#	Article	IF	Citations
801	Trends in Bulk Compressibility of Mo_{2â€“x}W_xBC Solid Solutions. Chemistry of Materials, 2022, 34, 2569-2575.	3.2	0
802	XAS and XMCD Reveal a Cobalt(II) Imide Undergoes High-Pressure-Induced Spin Crossover. Journal of Physical Chemistry C, 2022, 126, 5784-5792.	1.5	4
803	Compressibility of structural modulation waves in the chain compounds BaCoX₂O₇ (X = As, P): a powder study. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 162-171.	0.5	0
804	Pressure-Induced Structural Phase Transition and Metallization of CrCl₃ under Different Hydrostatic Environments up to 50.0 GPa. Inorganic Chemistry, 2022, 61, 4852-4864.	1.9	14
805	In situ Raman vibrational spectra of siderite (FeCO3) and rhodochrosite (MnCO3) up to 47 GPa and 1100 K. American Mineralogist, 2022, , .	0.9	4
806	Thermal equation of state of the main minerals of eclogite: Constraining the density evolution of eclogite during the delamination process in Tibet. Solid Earth, 2022, 13, 745-759.	1.2	1
807	An Investigation of the Pressure-Induced Structural Phase Transition of Nanocrystalline Î±-CuMoO4. Crystals, 2022, 12, 365.	1.0	2
808	Effect of synchrotron X-ray radiation damage on phase transitions in coordination polymers at high pressure. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 100-106.	0.5	5
810	Reversible linear-compression behavior of free volume in a metallic glass. Physical Review B, 2022, 105, .	1.1	7
811	Vibrational spectroscopy and lattice dynamic calculation on the MnMoO4 system. Journal of Solid State Chemistry, 2022, 311, 123105.	1.4	2
812	Spatially resolved optical spectroscopy in extreme environment of low temperature, high magnetic fields and high pressure. Review of Scientific Instruments, 2021, 92, 123909.	0.6	2
813	Pressure-driven phase transformations and phase segregation in ferrielectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>CuIn</mml:mi><mml:msub><mml:mi mathvariant="normal">P</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>6</mml:mn></mml:msub><mml:mtext>â”</mml:mtext><mml:msub><mml:mi>In</mml:mi><mml:mi mathvariant="normal">P</mml:mi><mml:mi>. Physical Review B, 2021, 104, .	1.1	10
814	Phase stability of preâ€irradiated CeO ₂ with swift heavy ions under high pressure up to 45ÂGPa. Journal of the American Ceramic Society, 2022, 105, 2889-2902.	1.9	3
815	Crystal structures, and high-temperature and high-pressure vibrational spectra of synthetic fluorine-bearing brucites. American Mineralogist, 2021, , .	0.9	0
816	Pressure-induced polymerization and bandgap-adjustment of TPEPA. RSC Advances, 2022, 12, 11996-12001.	1.7	1
817	Pressure-stimulus-responsive behaviors of coreâ€“shell InP/ZnSe nanocrystals: remarkable piezochromic luminescence and structural assembly. Nanoscale, 2022, 14, 7530-7537.	2.8	2
818	Experimental and Computational Studies of Compression and Deformation Behavior of Hafnium Diboride to 208 GPa. Materials, 2022, 15, 2762.	1.3	2
819	Stability of Wadsley-type vanadium oxides V2O5 and V6O13 at high pressures. Journal of Alloys and Compounds, 2022, 911, 164966.	2.8	2

#	Article	IF	Citations
820	Progress and prospects for cuprate high temperature superconductors under pressure. High Pressure Research, 2022, 42, 137-199.	0.4	6
821	Normal to abnormal behavior of PbSiO3 glass: A vibrational spectroscopy investigation under high-pressure. Journal of Non-Crystalline Solids, 2022, 589, 121614.	1.5	1
822	Concurrent Pressure-Induced Spin-State Transitions and Jahnâ€“Teller Distortions in MnTe. Chemistry of Materials, 2022, 34, 3931-3940.	3.2	6
823	Phase Transitions of BiVO₄ under High Pressure and High Temperature. Journal of Physical Chemistry C, 2022, 126, 7755-7763.	1.5	8
824	Simultaneous imaging and diffraction in the dynamic diamond anvil cell. Review of Scientific Instruments, 2022, 93, 053903.	0.6	3
825	Control of deviatoric stress in the diamond anvil cell through thermal expansion mismatch stress in thin films. Physics and Chemistry of Minerals, 2022, 49, 1.	0.3	1
826	Oxide glasses under pressure: Recent insights from experiments and simulations. Journal of Applied Physics, 2022, 131, .	1.1	9
827	Phase stability and dense polymorph of the BaCa(CO3)2 barytocalcite carbonate. Scientific Reports, 2022, 12, 7413.	1.6	4
829	Pressure-induced metallization and robust superconductivity in pristine 1T-HfSe2. Materials Today Physics, 2022, 25, 100698.	2.9	11
830	Synthesis and characterization of amorphous-nanocrystalline Fe70Cr10Nb10B10 powders by mechanical alloying. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	11
831	Phase behaviour of ammonium-bromide-d₄ under high pressure and low temperature; an average and local structure study. Journal of Physics Condensed Matter, 0, , .	0.7	1
832	Pressurizing the van der Waals magnet FeOCl at low temperatures: Phase transitions and structural evolution. Physical Review B, 2022, 105, .	1.1	2
833	High-Pressure Polymorphism in Hydrogen-Bonded Crystals: A Concise Review. Crystals, 2022, 12, 739.	1.0	3
834	Dimensionality switching and superconductivity transition in dense <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^’</mml:mtext></mml:mrow></mml:math> Physical Review B, 2022, 105, .	1.1	2
835	Picosecond acoustics: a new way to access elastic properties of materials at pressure and temperature conditions of planetary interiors. Physics and Chemistry of Minerals, 2022, 49, .	0.3	2
836	Piezochromic luminescence of dicoronylene: Key for revealing hidden Raman modes at high pressure. Carbon, 2022, , .	5.4	1
837	Pressure-Dependent Structure of BaZrO3 Crystals as Determined by Raman Spectroscopy. Materials, 2022, 15, 4286.	1.3	3
838	3D stress mapping reveals the origin of lithium-deposition heterogeneity in solid-state lithium-metal batteries. Cell Reports Physical Science, 2022, 3, 100938.	2.8	17

#	Article	IF	Citations
839	High-Pressure Synthesis of Î²- and Î±-In₂Se₃-Like Structures in Ga₂S₃. Chemistry of Materials, 2022, 34, 6068-6086.	3.2	3
840	High-pressure and high-temperature structure and equation of state of Na₃Ca₂La(CO<sub>3</sub burbankite. European Journal of Mineralogy, 2022, 34, 351-358.	1.4	0
841	High-pressure structural phase transitions and metallization in layered HfS₂ under different hydrostatic environments up to 42.1 GPa. Journal of Materials Chemistry C, 0, , .	2.7	10
842	Pressure-induced local structural crossover in a high-entropy metallic glass. Physical Review B, 2022, 105, .	1.1	2
843	Physical Properties and Structural Stability of Cobalt Pyrovanadate Co₂V₂O₇ under High-Pressure Conditions. Journal of Physical Chemistry C, 2022, 126, 13416-13426.	1.5	5
844	Irreversible phase transitions of the multiferroic oxide Mn₃TeO₆ at high pressures. Applied Physics Letters, 2022, 121, 044102.	1.5	0
845	Highâ€pressure behavior and phase transition of jadarite, a promising B and Li mineral commodity. Journal of the American Ceramic Society, 2022, 105, 7011-7021.	1.9	3
846	High-pressure Cr3+ R-line luminescence of zoisite and kyanite: a probe of octahedral site distortion. Physics and Chemistry of Minerals, 2022, 49, .	0.3	1
847	Singleâ€Crystal Elasticity of Antigorite at High Pressures and Seismic Detection of Serpentinized Slabs. Geophysical Research Letters, 2022, 49, .	1.5	1
848	Morphology Tuned Pressure Induced Amorphization in VO2(B) Nanobelts. Inorganics, 2022, 10, 122.	1.2	1
849	Stability of the tetragonal phase of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaZrO</mml:mi><mml:mn>3</mml:mn> under high pressure. Physical Review B, 2022, 106, .	1.1	3
850	Abnormal Elastic Changes for Cubic-Tetragonal Transition of Single-crystal SrTiO₃. Chinese Physics Letters, 0, , .	1.3	2
851	Pressure-induced metallization in the absence of a structural transition in the layered ferromagnetic insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>2</mml:mn> Physical Review B, 2022, 106, .	1.1	3
852	High pressure deformation induced precipitation in Alâ€“Znâ€“Mgâ€“Cu alloy (Al7075). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 853, 143765.	2.6	5
854	Influence of high pressure on Ce3+ luminescence in LuAlO3 and YAlO3 single crystals and single crystalline layers. Journal of Luminescence, 2022, 252, 119276.	1.5	1
855	Pressure-induced phase transition in Î±- and Î²-BiNbO₄. Physical Chemistry Chemical Physics, 2022, 24, 20546-20552.	1.3	5
856	X-ray diffraction methods for high-pressure solid-state synthesis. , 2022, , .		0
857	Structural and electronic phase transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Zr</mml:mi><mml:mrow><mml:mn>1.03 at high pressure. Physical Review B, 2022, 106, .	1.1	2

#	Article	IF	Citations
858	Pressure Tuning Resonance Raman Scattering in Monolayer, Trilayer, and Many-Layer Molybdenum Disulfide. ACS Applied Nano Materials, 2022, 5, 14464-14469.	2.4	3
859	Thermal Conductivity of Helium and Argon at High Pressure and High Temperature. Materials, 2022, 15, 6681.	1.3	2
860	Prediction of Ground State Structures and Robust Weyl Fermionic States in MnRhP. Journal of Physical Chemistry C, 2022, 126, 17328-17337.	1.5	0
861	Second harmonic AC calorimetry technique within a diamond anvil cell. Review of Scientific Instruments, 2022, 93, 093901.	0.6	1
862	Strain-Modulated Interlayer Charge and Energy Transfers in MoS₂/WS₂ Heterobilayer. ACS Applied Materials & Interfaces, 2022, 14, 46841-46849.	4.0	4
863	Water-cooling diamond anvil cells: An approach to temperatureâ€“pressure relation in heated experiments. Review of Scientific Instruments, 2022, 93, 103904.	0.6	0
865	Reassigning the Pressure-Induced Phase Transitions of Methylammonium Lead Bromide Perovskite. Journal of the American Chemical Society, 2022, 144, 20099-20108.	6.6	22
866	The effects of pressure on the lattice of the rare-earth-based perovskite-type oxides SmAlO₃ and NdAlO₃. New Journal of Physics, 2022, 24, 113008.	1.2	1
867	Discovery of high-pressure post-perovskite phase in HoCrO3. Journal of Physics and Chemistry of Solids, 2023, 172, 111078.	1.9	4
868	High-Pressure, High-Temperature Studies of Phase Transitions in SrOsO₃â”€Discovery of a Post-Perovskite. Inorganic Chemistry, 2022, 61, 19088-19096.	1.9	1
869	Comparative study of the HPâ€HTbehavior of a layered silicate apophyllite in water and paraffin oil. Journal of Raman Spectroscopy, 2023, 54, 209-216.	1.2	2
870	High-pressure behavior of gasparite-(Ce) (nominally CeAsO4), a monazite-type arsenate. Physics and Chemistry of Minerals, 2022, 49, .	0.3	0
871	Equation of state of spinel (MgAl2O4): constraints on self-consistent thermodynamic parameters and implications for elastic geobarometry of peridotites and chromitites. Contributions To Mineralogy and Petrology, 2022, 177, .	1.2	1
872	Determination of Pâ€“V equation of state of a natural clinoptilolite using high-pressure powder synchrotron X-ray diffraction. Physics and Chemistry of Minerals, 2022, 49, .	0.3	1
874	Lattice dynamics of NiTiO3 under high pressure: Raman evidence under two pressure-transmitting mediums. Results in Physics, 2022, 43, 106114.	2.0	5
875	Pressure-induced phase transition and band-gap decrease in semiconducting Na3Bi(IO3)6. Results in Physics, 2023, 44, 106156.	2.0	4
876	Phase stability of stress-sensitive Ag2CO3 silver carbonate at high pressures and temperatures. Solid State Sciences, 2023, 135, 107068.	1.5	3
877	Modulations in Superconductors: Probes of Underlying Physics. Advanced Materials, 2023, 35, .	11.1	0

#	Article	IF	Citations
878	Coherent Control and Magnetic Detection of Divacancy Spins in Silicon Carbide at High Pressures. Nano Letters, 2022, 22, 9943-9950.	4.5	8
879	Pressure-induced band-gap energy increase in a metal iodate. Physical Review B, 2022, 106, .	1.1	4
880	Behavior of Au Nanoparticles under Pressure Observed by In Situ Small-Angle X-ray Scattering. ACS Nano, 0, , .	7.3	2
881	Tracking structural phase transitions via single crystal x-ray diffraction at extreme conditions: advantages of extremely brilliant source. Journal of Physics Condensed Matter, 2023, 35, 054001.	0.7	3
882	Probing the Evolution of the Electron Spin Wave Function of the Nitrogen-Vacancy Center in Diamond via Pressure Tuning. Physical Review Applied, 2022, 18, .	1.5	3
883	Hybrid perovskites under pressure: Present and future directions. Journal of Applied Physics, 2022, 132, .	1.1	4
884	Second Order Phase Transition and Stabilizing CHÂ·Â·Â·H and CHÂ·Â·Â·S Interactions in Naphthyl End-Capped Bithiophene at 3.5 GPa. Journal of Physical Chemistry C, 0, , .	1.5	0
885	Structural and Luminescence Properties of Cu(I)X-Quinoxaline under High Pressure (X = Br, I). Crystals, 2023, 13, 100.	1.0	0
886	Discerning subtle high-pressure phase transitions in glyphosate. CrystEngComm, 0, , .	1.3	0
887	Pressure-Induced Structural Transformations and Electronic Transitions in TeO₂ Glass by Raman Spectroscopy. Journal of Physical Chemistry Letters, 2023, 14, 387-394.	2.1	2
888	High-Pressure X-ray Diffraction and DFT Studies on Spinel FeV2O4. Crystals, 2023, 13, 53.	1.0	0
889	Pressure-Induced Phase Transition in Multilayered Vanadium Diselenide Nanosheets. Journal of Physical Chemistry C, 2023, 127, 368-380.	1.5	1
890	High-Pressure X-ray Diffraction Study of Orthorhombic Ca₂Zr₅Ti₂O₁₆. Journal of Physical Chemistry C, 2023, 127, 2069-2077.	1.5	0
891	Pressure-Induced Structural Phase Transitions in the Chromium Spinel LiInCr4O8 with Breathing Pyrochlore Lattice. Crystals, 2023, 13, 170.	1.0	1
892	The Effect of High Pressure on Polymorphs of a Derivative of Blatterâ€™s Radical: Identification of the Structural Signatures of Subtle Phase Transitions. Crystal Growth and Design, 0, , .	1.4	0
893	Elucidating l-tyrosine crystal phase transitions by Raman spectroscopy and ab initio calculations. Journal of Physics and Chemistry of Solids, 2023, 176, 111234.	1.9	1
894	Effect of Iron Content on Thermal Conductivity of Ferropericlase: Implications for Planetary Mantle Dynamics. Geophysical Research Letters, 2023, 50, .	1.5	1
895	EXAFS investigations on the pressure induced local structural changes of GeSe₂ glass under different hydrostatic conditions. Journal of Physics Condensed Matter, 2023, 35, 264001.	0.7	1

#	Article	IF	Citations
896	Phonon anharmonicity and equation of state parameters of orthovanadate Mg3(VO4)2: Raman Spectroscopy and X-ray diffraction investigation. Solid State Sciences, 2023, 139, 107186.	1.5	4
897	A review on the advancements in the characterization of the high-pressure properties of iodates. Progress in Materials Science, 2023, 136, 101092.	16.0	9
898	Elasticity of amorphous calcium carbonate at high pressure and its dependence on the H2O content: A Brillouin scattering study to 20ÂGPa. Physics of the Earth and Planetary Interiors, 2023, 336, 106984.	0.7	1
899	Phase Transformation Pathway of DyPO4 to 21.5 GPa. Crystals, 2023, 13, 249.	1.0	2
900	Interplay between H-bonding proton dynamics and Fe valence fluctuations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:r Physical Review B, 2023, 107, .	1.1	0
901	White Laue and powder diffraction studiesÂto reveal mechanisms of HCP-to-BCC phase transformation in single crystals of Mg under high pressure. Scientific Reports, 2023, 13, .	1.6	1
902	Effect of Hydrostatic Pressure on Lone Pair Activity and Phonon Transport in Bi₂O₂S. ACS Applied Energy Materials, 2023, 6, 2401-2411.	2.5	4
903	High-Pressure Structural and Thermodynamic Properties of Cerium Orthosilicates (CeSiO₄). Journal of Physical Chemistry C, 2023, 127, 4225-4238.	1.5	4
904	Equations of State and Crystal Structures of KCaPO₄, KSrPO₄, and K₂Ce(PO₄)₂ under High Pressure: Discovery of a New Polymorph of KCaPO₄. Crystal Growth and Design, 2023, 23, 2782-2794.	1.4	1
905	High-pressure studies of atomically thin van der Waals materials. Applied Physics Reviews, 2023, 10, .	5.5	9
906	Structural Behavior of Minrecordite Carbonate Mineral upon Compression: Effect of Mg â†' Zn Chemical Substitution in Dolomite-Type Compounds. ACS Omega, 2023, 8, 10403-10410.	1.6	0
907	Pressure-induced structural phase transitions in natural monazite. Physical Review B, 2023, 107, .	1.1	0
908	High-pressure Mechanical Behaviour Under Hydrostatic Compression. , 2023, , 205-266.		0
909	Comparison between mechanisms and microstructures of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Î³ , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>Îµ Physical Review B, 2023, 107, .	1.1	6
910	Pressure-induced superconductivity in the photoelectric semiconductor BiSeI. Physical Review B, 2023, 107, .	1.1	1
911	High-Pressure Coupling Reactions to Produce a Spherical Bulk Re_xN/Fe₃N Composite. Inorganic Chemistry, 2023, 62, 6263-6273.	1.9	1
912	Pressure evolution of electronic and crystal structure of noncentrosymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>EuCoGe</mml:mi><mml:mn>3</mml:mn></mml:msub>< Physical Review B, 2023, 107, .	1.1	0
913	Pressure-induced insulator-to-metal transition in the van der Waals compound <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CoPS</mml:mi><mml:mn>3</mml:mn></mml:msub>< Physical Review B, 2023, 107, .	1.1	5

#	Article	IF	Citations
914	Pressure-Induced Ferroelastic Transition Drives a Large Shape Change in a Ni(II) Complex Single Crystal. Journal of Physical Chemistry Letters, 0, , 3891-3897.	2.1	0
915	On the anomalous high-pressure phase transition of inderite, MgB3O3(OH)5Â·5H2O. Solid State Sciences, 2023, , 107187.	1.5	0
949	Exploring the structural dynamics of proteins by pressure perturbation using macromolecular crystallography. Methods in Enzymology, 2023, , .	0.4	0
1007	The Dynamic View: Multiscale Characterisation Techniques for Flexible Frameworks. , 2024, , 145-230.		0