Daniel Errandonea

List of Publications by Year
in descending order

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311 papers	11,607 citations	25423 59 h-index	60403 85 g-index
323 all docs	323 docs citations	323 times ranked	7203 citing authors

#	Article	IF	Citations
1	Lattice dynamics of zircon-type NdVO4 and scheelite-type PrVO4 under high-pressure. Journal of Physics Condensed Matter, 2022, 34, 025404.	0.7	2
2	Theoretical calculations of the effect of nitrogen substitution on the structural, vibrational, and electronic properties of wolframite-type ScTaO₄at ambient conditions. Dalton Transactions, 2022, 51, 3642-3651.	1.6	3
3	Monoclinicâ€“triclinic phase transition induced by pressure in fergusonite-type YbNbO₄. Journal of Physics Condensed Matter, 2022, 34, 174007.	0.7	7
4	Pressure-Induced Phase Transition and Band Gap Decrease in Semiconducting Î²-Cu₂V₂O₇. Inorganic Chemistry, 2022, 61, 3697-3707.	1.9	7
5	High-Pressure Properties of Wolframite-Type ScNbO₄. Journal of Physical Chemistry C, 2022, 126, 4664-4676.	1.5	14
6	Pressure-induced phase transition and increase of oxygen-iodine coordination in magnesium iodate. Physical Review B, 2022, 105, .	1.1	9
7	High-pressure tuning of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>d</mml:mi><mml:mo>â€“</mml:mo><mml:mi>d</mml:mi> crystal-field electronic transitions and electronic band gap in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo>	1.1	10
8	An Investigation of the Pressure-Induced Structural Phase Transition of Nanocrystalline Î±-CuMoO4. Crystals, 2022, 12, 365.	1.0	2
9	Characterization of the high-pressure and high-temperature phase diagram and equation of state of chromium. Scientific Reports, 2022, 12, 6727.	1.6	21
10	Phase Transitions of BiVO₄ under High Pressure and High Temperature. Journal of Physical Chemistry C, 2022, 126, 7755-7763.	1.5	8
11	Pressure-induced metallization and robust superconductivity in pristine 1T-HfSe2. Materials Today Physics, 2022, 25, 100698.	2.9	11
12	General relationship between the band-gap energy and iodine-oxygen bond distance in metal iodates. Physical Review Materials, 2022, 6, .	0.9	7
13	Pressure-induced phase transitions and electronic properties of Cd₂V₂O₇. RSC Advances, 2022, 12, 14827-14837.	1.7	3
14	Competing dynamical and lattice instabilities in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>R</mml:mi><mml:mj mathvariant="normal">VO</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> rare-earth vanadium oxides under high pressure. Physical Review Materials, 2022, 6, .	0.9	2
15	Understanding the thermodynamic, dynamic, bonding, and electrocatalytic properties of low-dimensional MgPSe₃. Dalton Transactions, 2022, 51, 9689-9698.	1.6	8
16	Unveiling the structural, dynamical, elastic, and electronic properties of cuboid silver tetrathiotungstate by means of ab initio calculations. Journal of Physics Condensed Matter, 2022, 34, 385701.	0.7	1
17	High-pressure structural, lattice dynamics, and electronic properties of beryllium aluminate studied from first-principles theory. Materials Today Communications, 2021, 26, 101801.	0.9	9
18	Experimental and theoretical study of dense YBO3 and the influence of non-hydrostaticity. Journal of Alloys and Compounds, 2021, 850, 156562.	2.8	5

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19	Pressure-dependent modifications in the optical and electronic properties of Fe(IO₃)₃: the role of Fe 3d and I 5p loneâ€“pair electrons. Inorganic Chemistry Frontiers, 2021, 8, 4780-4790.	3.0	13
20	Pressure-induced chemical decomposition of copper orthovanadate (Î±-Cu₃V₂O₈). Journal of Materials Chemistry C, 2021, 9, 13402-13409.	2.7	12
21	Density-functional study of pressure-induced phase transitions and electronic properties of Zn₂V₂O₇. RSC Advances, 2021, 11, 10401-10415.	1.7	8
22	The phase diagram of Ti-6Al-4V at high-pressures and high-temperatures. Journal of Physics Condensed Matter, 2021, 33, 154001.	0.7	12
23	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
24	Pâ€“Vâ€“T Equation of State of Iridium Up to 80 GPa and 3100 K. Crystals, 2021, 11, 452.	1.0	40
25	High-pressure monoclinicâ€“monoclinic transition in fergusonite-type HoNbO₄. Journal of Physics Condensed Matter, 2021, 33, 195401.	0.7	9
26	Polymorphism of praseodymium orthovanadate under high pressure. Physical Review B, 2021, 103, .	1.1	7
27	Ab Initio Phase Diagram of Copper. Crystals, 2021, 11, 537.	1.0	29
28	Colossal barocaloric effects in the complex hydride Li$$_{2}$$B$$_{12}$$H$$_{12}$$. Scientific Reports, 2021, 11, 11915.	1.6	12
29	GdBO3 and YBO3 crystals under compression. Journal of Alloys and Compounds, 2021, 866, 158962.	2.8	3
30	Melting line of calcium characterized by in situ LH-DAC XRD and first-principles calculations. Scientific Reports, 2021, 11, 15025.	1.6	2
31	Pressure-Driven Symmetry-Preserving Phase Transitions in Co(IO₃)₂. Journal of Physical Chemistry C, 2021, 125, 17448-17461.	1.5	14
32	Understanding the optical and bonding properties of hybrid metal-halide (C5H16NP) PbX4 (XÂ=ÂCl, Br, I) perovskite: A density-functional theory study. Inorganic Chemistry Communication, 2021, 130, 108721.	1.8	9
33	Ab initio phase diagram of silver. Journal of Physics Condensed Matter, 2021, 33, 485901.	0.7	12
34	Properties of Transition Metals and Their Compounds at Extreme Conditions. Crystals, 2021, 11, 1185.	1.0	0
35	Pressure-induced band anticrossing in two adamantine ordered-vacancy compounds: CdGa2S4 and HgGa2S4. Journal of Alloys and Compounds, 2021, 886, 161226.	2.8	6
36	Electronic properties and high-pressure behavior of wolframite-type CoWO₄. Materials Advances, 2021, 2, 5955-5966.	2.6	14

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37	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
38	Crystal structure and phase transition of TlReO₄: a combined experimental and theoretical study. Journal of Physics Condensed Matter, 2021, 33, 065403.	0.7	6
39	High-Pressure Spectroscopy Study of Zn(IO3)2 Using Far-Infrared Synchrotron Radiation. Crystals, 2021, 11, 34.	1.0	10
40	Evolution of Structural and Electronic Properties of TiSe₂ under High Pressure. Journal of Physical Chemistry Letters, 2021, 12, 9859-9867.	2.1	21
41	Synthesis and Characterization of Novel Nanoparticles of Lithium Aluminum Iodate LiAl(IO3)4, and DFT Calculations of the Crystal Structure and Physical Properties. Nanomaterials, 2021, 11, 3289.	1.9	3
42	Making Yb₂Hf₂O₇ Defect Fluorite Uncompressible by Particle Size Reduction. Journal of Physical Chemistry C, 2021, 125, 27354-27362.	1.5	12
43	Spray pyrolysis synthesis and characterization of Mg1-xSrxMoO4 heterostructure with white light emission. Journal of Alloys and Compounds, 2020, 813, 152235.	2.8	18
44	Experimental and Theoretical Study of SbPO4 under Compression. Inorganic Chemistry, 2020, 59, 287-307.	1.9	14
45	Simple New Method for the Preparation of La(IO3)3 Nanoparticles. Nanomaterials, 2020, 10, 2400.	1.9	5
46	High pressure crystal structures of orthovanadates and their properties. Journal of Applied Physics, 2020, 128, .	1.1	29
47	Pressure-Induced Phase Transformations. Crystals, 2020, 10, 595.	1.0	4
48	Experimental and theoretical confirmation of an orthorhombic phase transition in niobium at high pressure and temperature. Communications Materials, 2020, 1, .	2.9	46
49	High-Pressure Raman Study of Fe(IO₃)₃: Soft-Mode Behavior Driven by Coordination Changes of Iodine Atoms. Journal of Physical Chemistry C, 2020, 124, 21329-21337.	1.5	21
50	High-Pressure Structural Behavior and Equation of State of Kagome Staircase Compound, Ni3V2O8. Crystals, 2020, 10, 910.	1.0	11
51	Comparative study of the high-pressure behavior of ZnV2O6, Zn2V2O7, and Zn3V2O8. Journal of Alloys and Compounds, 2020, 837, 155505.	2.8	28
52	High-pressure characterization of multifunctional CrVO₄. Journal of Physics Condensed Matter, 2020, 32, 385403.	0.7	12
53	Pressure-induced instability of the fergusonite phase of EuNbO4 studied by in situ Raman spectroscopy, x-ray diffraction, and photoluminescence spectroscopy. Journal of Applied Physics, 2020, 127, .	1.1	14
54	First-principles study of elastic and thermal properties of scheelite-type molybdates and tungstates. Materials Today Communications, 2020, 24, 101089.	0.9	11

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55	Phase Behavior of TmVO₄ under Hydrostatic Compression: An Experimental and Theoretical Study. Inorganic Chemistry, 2020, 59, 4882-4894.	1.9	10
56	Structural, vibrational and electronic properties in the glass-crystal transition of thin films Sb70Te30 doped with Sn. Journal of Alloys and Compounds, 2020, 845, 156307.	2.8	11
57	Characterization and Decomposition of the Natural van der Waals SnSb₂Te₄ under Compression. Inorganic Chemistry, 2020, 59, 9900-9918.	1.9	31
58	Investigation on the Luminescence Properties of InMO₄ (M = V⁵⁺,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Earth Ions. ACS Omega, 2020, 5, 2148-2158.	1.6	24
59	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
60	Precise Characterization of the Rich Structural Landscape Induced by Pressure in Multifunctional FeVO₄. Inorganic Chemistry, 2020, 59, 6623-6630.	1.9	19
61	PrVO₄ under High Pressure: Effects on Structural, Optical, and Electrical Properties. Inorganic Chemistry, 2020, 59, 18325-18337.	1.9	8
62	The high-pressure, high-temperature phase diagram of cerium. Journal of Physics Condensed Matter, 2020, 32, 335401.	0.7	9
63	Putting the Squeeze on Lead Chromate Nanorods. Journal of Physical Chemistry Letters, 2019, 10, 4744-4751.	2.1	6
64	Tuning the Photoresponse of Nanoâ€Heterojunction: Pressureâ€Induced Inverse Photoconductance in Functionalized WO₃ Nanocuboids. Advanced Science, 2019, 6, 1901132.	5.6	28
65	Structural Characterization of Aurophilic Gold(I) Iodide under High Pressure. Inorganic Chemistry, 2019, 58, 10665-10670.	1.9	15
66	High pressure theoretical and experimental analysis of the bandgap of BaMoO4, PbMoO4, and CdMoO4. Applied Physics Letters, 2019, 115, .	1.5	24
67	Phase stability and electronic structure of iridium metal at the megabar range. Scientific Reports, 2019, 9, 8940.	1.6	17
68	Thermal equation of state of ruthenium characterized by resistively heated diamond anvil cell. Scientific Reports, 2019, 9, 14459.	1.6	8
69	Melting curve and phase diagram of vanadium under high-pressure and high-temperature conditions. Physical Review B, 2019, 100, .	1.1	42
70	High-pressure polymorphs of gadolinium orthovanadate: X-ray diffraction, Raman spectroscopy, and ab initio calculations. Physical Review B, 2019, 100, .	1.1	22
71	Synthesis, Characterization, and Crystal Structure Determination of a New Lithium Zinc Iodate Polymorph LiZn(IO3)3. Crystals, 2019, 9, 464.	1.0	12
72	In situ characterization of the high pressure â€“ high temperature melting curve of platinum. Scientific Reports, 2019, 9, 13034.	1.6	65

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73	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
74	Pressure Effects on the Optical Properties of NdVO4. Crystals, 2019, 9, 237.	1.0	12
75	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
76	Structural and MÃ¶ssbauer study of (Sb0.70Te0.30)100-x Snx alloys with xâ€¯=â€¯0, 2.5, 5.0 and 7.5. Journal of Alloys and Compounds, 2019, 795, 27-33.	2.8	5
77	Giant conductivity enhancement: Pressure-induced semiconductor-metal phase transition in Cd0.90Zn0.1Te. Physical Review B, 2019, 99, .	1.1	6
78	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
79	Pressure-Induced Hexagonal to Monoclinic Phase Transition of Partially Hydrated CePO₄. Inorganic Chemistry, 2019, 58, 4480-4490.	1.9	11
80	High-pressure characterization of the optical and electronic properties of InVO4, InNbO4, and InTaO4. SN Applied Sciences, 2019, 1, 1.	1.5	42
81	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
82	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
83	A High-Pressure Investigation of the Synthetic Analogue of Chalcomenite, CuSeO3â‹™2H2O. Crystals, 2019, 9, 643.	1.0	8
84	LiCrO2 Under Pressure: In-Situ Structural and Vibrational Studies. Crystals, 2019, 9, 2.	1.0	6
85	High-Pressure Phase Diagram and Superionicity of Alkaline Earth Metal Difluorides. Journal of Physical Chemistry C, 2018, 122, 1267-1279.	1.5	23
86	High pressure in-situ X-ray diffraction study on Zn-doped magnetite nanoparticles. Solid State Sciences, 2018, 77, 1-4.	1.5	3
87	High-pressure structural and vibrational properties of monazite-type BiPO₄, LaPO₄, CePO₄, and PrPO₄. Journal of Physics Condensed Matter, 2018, 30, 065401.	0.7	28
88	Recent progress on the characterization of the high-pressure behaviour of AVO4 orthovanadates. Progress in Materials Science, 2018, 97, 123-169.	16.0	105
89	Synthesis and characterization of Ti-doped ZrSiO4 at ambient and high-pressure conditions. Journal of Materials Science, 2018, 53, 8817-8825.	1.7	4
90	Experimental and theoretical study on the optical properties of LaVO₄ crystals under pressure. Physical Chemistry Chemical Physics, 2018, 20, 27314-27328.	1.3	26

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91	Comment on â€œHigh-pressure phases of group-II difluorides: Polymorphism and superionicityâ€• Physical Review B, 2018, 98, .	1.1	7
92	High-Pressure High-Temperature Stability and Thermal Equation of State of Zircon-Type Erbium Vanadate. Inorganic Chemistry, 2018, 57, 14005-14012.	1.9	17
93	Characterization of V-doped SnO₂ nanoparticles at ambient and high pressures. Materials Research Express, 2018, 5, 125005.	0.8	5
94	Peptide metalâ€“organic frameworks under pressure: flexible linkers for cooperative compression. Dalton Transactions, 2018, 47, 10654-10659.	1.6	45
95	Experimental and Theoretical Studies on Î±-In₂Se₃ at High Pressure. Inorganic Chemistry, 2018, 57, 8241-8252.	1.9	46
96	Effect of High Pressure on the Crystal Structure and Vibrational Properties of Olivine-Type LiNiPO₄. Inorganic Chemistry, 2018, 57, 10265-10276.	1.9	16
97	A Brief Review of the Effects of Pressure on Wolframite-Type Oxides. Crystals, 2018, 8, 71.	1.0	36
98	Pressure-induced structural and semiconductor-semiconductor transitions in <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">o</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">g</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi	1.1	20
99	High-pressure/high-temperature phase diagram of zinc. Journal of Physics Condensed Matter, 2018, 30, 295402.	0.7	20
100	Stability of FeVO₄ under Pressure: An X-ray Diffraction and First-Principles Study. Inorganic Chemistry, 2018, 57, 7860-7876.	1.9	27
101	High Pressure Raman, Optical Absorption, and Resistivity Study of SrCrO₄. Inorganic Chemistry, 2018, 57, 7550-7557.	1.9	17
102	Phase diagram of calcium at high pressure and high temperature. Physical Review Materials, 2018, 2, .	0.9	20
103	Compressibility and structural behavior of pure and Fe-doped SnO2 nanocrystals. Solid State Sciences, 2017, 64, 91-98.	1.5	14
104	High-pressure structural, elastic, and thermodynamic properties of zircon-type HoPO₄and TmPO₄. Journal of Physics Condensed Matter, 2017, 29, 095401.	0.7	43
105	On the high-pressure phase stability and elastic properties ofÎ²-titanium alloys. Journal of Physics Condensed Matter, 2017, 29, 155401.	0.7	20
106	First-Principles Study of InVO₄ under Pressure: Phase Transitions from CrVO₄- to AgMnO₄-Type Structure. Inorganic Chemistry, 2017, 56, 2697-2711.	1.9	25
107	Pressure-induced structural evaluation and insulator-metal transition in the mixed spinel ferrite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Z</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mrow><mml:mn>0.2</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi	1.1	21
108	Ab initio study of the mechanical and electronic properties of scheelite-type XWO₄ (X = Ca, Sr, Ba) compounds. International Journal of Modern Physics B, 2017, 31, 1750086.	1.0	22

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109	Highâ€pressure phase transitions and properties of MTO₄ compounds with the monaziteâ€type structure. Physica Status Solidi (B): Basic Research, 2017, 254, 1700016.	0.7	24
110	Structural and vibrational properties of corundum-type In2O3nanocrystals under compression. Nanotechnology, 2017, 28, 205701.	1.3	11
111	Pressure-Driven Isostructural Phase Transition in InNbO₄: In Situ Experimental and Theoretical Investigations. Inorganic Chemistry, 2017, 56, 5420-5430.	1.9	29
112	Structural Evolution of CO₂-Filled Pure Silica LTA Zeolite under High-Pressure High-Temperature Conditions. Chemistry of Materials, 2017, 29, 4502-4510.	3.2	20
113	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
114	New pressure-induced polymorphic transitions of anhydrous magnesium sulfate. Dalton Transactions, 2017, 46, 5058-5068.	1.6	23
115	ScVO₄under non-hydrostatic compression: a new metastable polymorph. Journal of Physics Condensed Matter, 2017, 29, 055401.	0.7	29
116	Mechanocaloric effects in superionic thin films from atomistic simulations. Nature Communications, 2017, 8, 963.	5.8	47
117	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
118	Giant barocaloric effects over a wide temperature range in superionic conductor AgI. Nature Communications, 2017, 8, 1851.	5.8	95
119	Pressure Impact on the Stability and Distortion of the Crystal Structure of CeScO₃. Inorganic Chemistry, 2017, 56, 8363-8371.	1.9	18
120	High-pressure lattice-dynamics of NdVO4. Journal of Physics and Chemistry of Solids, 2017, 100, 126-133.	1.9	24
121	Recent ab initio phase diagram studies: Iridium. Journal of Physics: Conference Series, 2017, 950, 042021.	0.3	1
122	High-pressure behavior of CaMoO4. Physical Review Materials, 2017, 1, .	0.9	15
123	Phase Stability of Lanthanum Orthovanadate at High Pressure. Journal of Physical Chemistry C, 2016, 120, 13749-13762.	1.5	42
124	Corundum type indium oxide nanostructures: ambient pressure synthesis from InOOH, and optical and photocatalytic properties. RSC Advances, 2016, 6, 108393-108403.	1.7	10
125	Giant Mechanocaloric Effects in Fluorite-Structured Superionic Materials. Nano Letters, 2016, 16, 3124-3129.	4.5	39
126	In-situ high-pressure x-ray diffraction study of zinc ferrite nanoparticles. Solid State Sciences, 2016, 56, 68-72.	1.5	21

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127	High-Pressure Crystal Structure, Lattice Vibrations, and Band Structure of BiSbO₄. Inorganic Chemistry, 2016, 55, 4958-4969.	1.9	60
128	Thallium under extreme compression. Journal of Physics Condensed Matter, 2016, 28, 445401.	0.7	30
129	Ab initiophase diagram of iridium. Physical Review B, 2016, 94, .	1.1	30
130	Polymorphism in Strontium Tungstate SrWO₄ under Quasi-Hydrostatic Compression. Inorganic Chemistry, 2016, 55, 10406-10414.	1.9	25
131	Pressure-induced phase transition and band-gap collapse in the wide-band-gap semiconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>InTa</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>.	1.1	39
132	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
133	In-situ high-pressure Raman scattering studies in PbWO4 up to 48ÂGPa. Journal of Alloys and Compounds, 2016, 667, 36-43.	2.8	6
134	Pressure-induced phase transformation in zircon-type orthovanadate SmVO₄from experiment and theory. Journal of Physics Condensed Matter, 2016, 28, 035402.	0.7	25
135	Pressure-induced amorphization of YVO₄:Eu³⁺nanoboxes. Nanotechnology, 2016, 27, 025701.	1.3	19
136	Comment on â€œMolybdenum sound velocity and shear modulus softening under shock compressionâ€. Physical Review B, 2015, 92, .	1.1	12
137	High pressure phase transitions in NdVO4. AIP Conference Proceedings, 2015, , .	0.3	9
138	HgGa₂Se₄ under high pressure: An optical absorption study. Physica Status Solidi (B): Basic Research, 2015, 252, 2043-2051.	0.7	13
139	Exploring the properties of MTO₄ compounds using highâ€pressure powder xâ€ray diffraction. Crystal Research and Technology, 2015, 50, 729-736.	0.6	45
140	Synthesis and High-Pressure Study of Corundum-Type In₂O₃. Journal of Physical Chemistry C, 2015, 119, 29076-29087.	1.5	23
141	Experimental and theoretical study ofÎ±â€“Eu₂(MoO₄)₃under compression. Journal of Physics Condensed Matter, 2015, 27, 465401.	0.7	5
142	Polymorphs of CaSeO₄ under Pressure: A First-Principles Study of Structural, Electronic, and Vibrational Properties. Inorganic Chemistry, 2015, 54, 1765-1777.	1.9	31
143	Theoretical and Experimental Study of the Crystal Structures, Lattice Vibrations, and Band Structures of Monazite-Type PbCrO₄, PbSeO₄, SrCrO₄, and SrSeO₄. Inorganic Chemistry, 2015, 54, 7524-7535.	1.9	90
144	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

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145	Crystal Structure of Sinhalite MgAlBO4 under High Pressure. Journal of Physical Chemistry C, 2015, 119, 6777-6784.	1.5	5
146	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
147	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
148	High-pressure powder x-ray diffraction study of EuVO4. Journal of Solid State Chemistry, 2015, 226, 147-153.	1.4	41
149	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
150	Cobalt ferrite nanoparticles under high pressure. Journal of Applied Physics, 2015, 118, .	1.1	44
151	High-pressure structural and elastic properties of Tl2O3. Journal of Applied Physics, 2014, 116, .	1.1	20
152	Superionicity and Polymorphism in Calcium Fluoride at High Pressure. Physical Review Letters, 2014, 113, 235902.	2.9	53
153	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
154	Equation of state and high-pressure/high-temperature phase diagram of magnesium. Physical Review B, 2014, 90, .	1.1	69
155	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
156	High-pressure structural behaviour of HoVO₄: combined XRD experiments andab initiocalculations. Journal of Physics Condensed Matter, 2014, 26, 265402.	0.7	58
157	Tuning the band gap of PbCrO4 through high-pressure: Evidence of wide-to-narrow semiconductor transitions. Journal of Alloys and Compounds, 2014, 587, 14-20.	2.8	60
158	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
159	Structural and elastic properties of defect chalcopyrite HgGa2S4 under high pressure. Journal of Alloys and Compounds, 2014, 583, 70-78.	2.8	32
160	Experimental evidence for pressure-driven isostructural and symmetry-breaking phase transitions on Bi14CrO24. Solid State Communications, 2014, 182, 50-54.	0.9	7
161	Compressibility and Structural Stability of Nanocrystalline TiO₂ Anatase Synthesized from Freeze-Dried Precursors. Inorganic Chemistry, 2014, 53, 11598-11603.	1.9	28
162	High-pressure structural transformations of PbCrO4 up to 51.2 GPa: An angle-dispersive synchrotron X-ray diffraction study. Materials Research Bulletin, 2014, 60, 206-211.	2.7	10

#	Article	IF	Citations
163	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
164	Pbca-Type In₂O₃: The High-Pressure Post-Corundum phase at Room Temperature.. Journal of Physical Chemistry C, 2014, 118, 20545-20552.	1.5	27
165	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
166	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
167	Lattice Dynamics Study of Nanocrystalline Yttrium Gallium Garnet at High Pressure. Journal of Physical Chemistry C, 2014, 118, 13177-13185.	1.5	33
168	AB$$_{2}$$O$$_{4}$$ Compounds at High Pressures. Springer Series in Materials Science, 2014, , 53-73.	0.4	11
169	Lattice Dynamics Study of HgGa₂Se₄ at High Pressures. Journal of Physical Chemistry C, 2013, 117, 15773-15781.	1.5	21
170	Experimental and theoretical investigations on the polymorphism and metastability of BiPO4. Dalton Transactions, 2013, 42, 14999.	1.6	70
171	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
172	Structural study of Î±-Bi₂O₃under pressure. Journal of Physics Condensed Matter, 2013, 25, 475402.	0.7	42
173	Crystal structure of HgGa2Se4 under compression. Materials Research Bulletin, 2013, 48, 2128-2133.	2.7	18
174	High-pressure polymorphs of TbVO4: A Raman and ab initio study. Journal of Alloys and Compounds, 2013, 577, 327-335.	2.8	45
175	High-pressure melting curves of the transition metals Cu, Ni, Pd, and Pt. Physical Review B, 2013, 87, .	1.1	105
176	Pressure-Induced Transformations in PrVO₄ and SmVO₄ and Isolation of High-Pressure Metastable Phases. Inorganic Chemistry, 2013, 52, 5464-5469.	1.9	60
177	High-Pressure, High-Temperature Phase Diagram of Calcium Fluoride from Classical Atomistic Simulations. Journal of Physical Chemistry C, 2013, 117, 11292-11301.	1.5	20
178	Phase Behavior of Ag₂CrO₄ under Compression: Structural, Vibrational, and Optical Properties. Journal of Physical Chemistry C, 2013, 117, 12239-12248.	1.5	23
179	New Polymorph of InVO₄: A High-Pressure Structure with Six-Coordinated Vanadium. Inorganic Chemistry, 2013, 52, 12790-12798.	1.9	63
180	Synthesis of a Novel Zeolite through a Pressureâ€Induced Reconstructive Phase Transition Process. Angewandte Chemie - International Edition, 2013, 52, 10458-10462.	7.2	45

#	Article	IF	Citations
181	Compression of scheelite-type SrMoO4 under quasi-hydrostatic conditions: Redefining the high-pressure structural sequence. Journal of Applied Physics, 2013, 113, .	1.1	66
182	High-pressure study of the structural and elastic properties of defect-chalcopyrite HgGa2Se4. Journal of Applied Physics, 2013, 113, .	1.1	28
183	New high-pressure phase and equation of state of Ce2Zr2O8. Journal of Applied Physics, 2012, 111, .	1.1	23
184	High-pressure lattice dynamical study of bulk and nanocrystalline In2O3. Journal of Applied Physics, 2012, 112, .	1.1	55
185	Compressibility and structural stability of ultra-incompressible bimetallic interstitial carbides and nitrides. Physical Review B, 2012, 85, .	1.1	17
186	Ab initioprediction of pressure-induced structural phase transitions of CrVO<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>-type orthophosphates. Physical Review B, 2012, 86, .	1.1	39
187	High-pressure transition to the post-barite phase in BaCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>hashemite. Physical Review B, 2012, 86, .	1.1	27
188	Raman scattering study of bulk and nanocrystalline PbMoO4 at high pressures. Journal of Applied Physics, 2012, 112, 103510.	1.1	22
189	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
199	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
200	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
201	The electronic structure of zircon-type orthovanadates: Effects of high-pressure and cation substitution. Journal of Applied Physics, 2011, 110, .	1.1	151
202	<i>In situ</i>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 50ÂGPa. Physical Review B, 2011, 84, .	1.1	62
203	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
204	Pressure-induced phase transitions in AgClO<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>. Physical Review B, 2011, 84, .	1.1	21
205	High-pressure x-ray diffraction study of CdMoO4 and EuMoO4. Journal of Applied Physics, 2011, 109, 043510-043510-5.	1.1	30
206	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<i>ab initio</i>calculations. Physical Review B, 2011, 83, .	1.1	54
207	High-pressure study of the behavior of mineral barite by x-ray diffraction. Physical Review B, 2011, 84, .	1.1	71
208	Lattice dynamics of ZnAl₂O₄ and ZnGa₂O₄ under high pressure. Annalen Der Physik, 2011, 523, 157-167.	0.9	47
209	Experimental and theoretical study of structural properties and phase transitions in YAsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>and YCrO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>4</mml:mn></mml:mro	1.1	43
210	First-principles calculations of electronic, vibrational, and structural properties of scheelite EuWO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>4</mml:mn></mml:msub></mml:math>under pressure. Physical Review B, 2011, 84, .	1.1	24
211	High-pressure theoretical and experimental study of HgWO4. High Pressure Research, 2011, 31, 58-63.	0.4	1
212	A combined high-pressure experimental and theoretical study of the electronic band-structure of scheelite-type AWO4 (Aâ€‰=â€‰Ca, Sr, Ba, Pb) compounds. Journal of Applied Physics, 2011, 110, .	1.1	81
213	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>4	1.1	123
214	Lattice dynamics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YVO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:ms high pressures. Physical Review B, 2010, 81, .	1.1	60
215	New high-pressure phase of HfTiO4 and ZrTiO4 ceramics. Materials Research Bulletin, 2010, 45, 1732-1735.	2.7	28
216	Nonlinear pressure dependence of the direct band gap in adamantine ordered-vacancy compounds. Physical Review B, 2010, 81, .	1.1	27

#	Article	IF	Citations
217	Experimental and theoretical investigation of the stability of the monoclinic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> phase at high pressure and high temperature. Physical Review B, 2010, 81, .	1.1	19
218	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:msub></mml:mrow></mml:math> Physical Review B, 2010, 81, .	1.1	67
219	High-pressure x-ray diffraction study of bulk and nanocrystalline PbMoO4. Journal of Applied Physics, 2010, 108, 073518.	1.1	29
220	Ab initiostudy of compressed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ar</mml:mtext><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow> Structural stability and anomalous melting. Physical Review B, 2010, 81, .	1.1	20
221	High-pressure structural and lattice dynamical study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>HgWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2010, 82, .	1.1	11
222	High-pressure phase transitions and compressibility of wolframite-type tungstates. Journal of Applied Physics, 2010, 107, .	1.1	66
223	Optical absorption and Raman spectroscopy of CuWO₄. Journal of Physics: Conference Series, 2010, 215, 012048.	0.3	17
224	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></mml:mrow></mml:math><mml:math 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:mn> Physical Review B, 2010, 82, .	1.1	91
225	Theoretical and experimental study of the structural stability of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TbPO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> high pressures. Physical Review B, 2010, 81, .	1.1	46
226	Microscopic evidence of a flat melting curve of tantalum. Physics of the Earth and Planetary Interiors, 2010, 181, 69-72.	0.7	23
227	The melting curve of ten metals up to 12 GPa and 1600 K. Journal of Applied Physics, 2010, 108, .	1.1	142
228	Lattice distortion of hcp solid helium under pressure. Physical Review B, 2009, 80, .	1.1	22
229	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:msub></mml:mrow></mml:math> high pressure. Physical Review B, 2009, 80, .	1.1	40
230	High-pressure and high-temperature X-ray diffraction studies of scheelite BaWO₄. High Pressure Research, 2009, 29, 76-82.	0.4	10
231	High-pressure phases, vibrational properties, and electronic structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ne</mml:mtext><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mo> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Ar</mml:mtext><mml:msub><mml:mrow><mml:mrow><mml:mm Physical Review B, 2009, 80, .	1.1	59
232	Negative pressures in CaWO4 nanocrystals. Journal of Applied Physics, 2009, 105, .	1.1	14
233	On the ferroelastic nature of the scheelite-to-fergusonite phase transition in orthotungstates and orthomolybdates. Materials Research Bulletin, 2009, 44, 807-811.	2.7	54
234	Comment on â€œMolten salt synthesis of barium molybdate and tungstate microcrystalsâ€. Materials Letters, 2009, 63, 160-161.	1.3	5

#	Article	IF	Citations
235	Observation of chemical reactions between alkaline-earth oxides and tungsten at high pressure and high temperature. Journal of Physics and Chemistry of Solids, 2009, 70, 1117-1120.	1.9	9
236	Pressureâ€induced structural phase transitions in materials and earth sciences. Physica Status Solidi (B): Basic Research, 2009, 246, 9-31.	0.7	83
237	Can metals be a liquid glass?. Nature Materials, 2009, 8, 170-171.	13.3	14
238	High-pressure structural investigation of several zircon-type orthovanadates. Physical Review B, 2009, 79, .	1.1	90
239	Characterization of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiSiO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:m and its pressure-induced phase transformations: Density functional theory study. Physical Review B, 2009, 80, .	1.1	44
240	Phase transitions in wolframite-type<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CdWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml: high pressure studied by Raman spectroscopy and density-functional theory. Physical Review B, 2009, 79, .	1.1	64
241	X-ray diffraction measurements of Mo melting to 119 GPa and the high pressure phase diagram. Journal of Chemical Physics, 2009, 130, 124509.	1.2	77
242	Post-spinel transformations and equation of state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZnGa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Determination at high pressure byin situx-ray diffraction. Physical Review B, 2009, 79, .	1.1	77
243	Hall-effect and resistivity measurements in CdTe and ZnTe at high pressure: Electronic structure of impurities in the zinc-blende phase and the semimetallic or metallic character of the high-pressure phases. Physical Review B, 2009, 79, .	1.1	54
244	Pressure effects on the structural and electronic properties of ABX4 scintillating crystals. Progress in Materials Science, 2008, 53, 711-773.	16.0	316
245	High-pressure X-ray diffraction study of SrMoO4 and pressure-induced structural changes. Journal of Solid State Chemistry, 2008, 181, 355-364.	1.4	94
246	Structural stability ofFe5Si3andNi2Sistudied by high-pressure x-ray diffraction andab initiototal-energy calculations. Physical Review B, 2008, 77, .	1.1	51
247	Growth, characterization, and high-pressure optical studies of CuWO₄. High Pressure Research, 2008, 28, 565-570.	0.4	67
248	Optical absorption of divalent metal tungstates: Correlation between the band-gap energy and the cation ionic radius. Europhysics Letters, 2008, 83, 37002.	0.7	275
249	High-pressure x-ray diffraction study on the structure and phase transitions of the defect-stannite ZnGa2Se4 and defect-chalcopyrite CdGa2S4. Journal of Applied Physics, 2008, 104, .	1.1	58
250	Combined Raman scattering andab initioinvestigation of pressure-induced structural phase transitions in the scintillator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>ZnWO</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:m Physical Review B, 2008, 78, .	1.1	83
251	Melting, density, and anisotropy of iron at core conditions: new x-ray measurements to 150 GPa. Journal of Physics: Conference Series, 2008, 121, 022018.	0.3	80
252	Effect of pressure on the luminescence properties of Nd3+ doped SrWO4 laser crystal. Journal of Alloys and Compounds, 2008, 451, 212-214.	2.8	21

#	Article	IF	Citations
253	Phase diagram studies on iron and nickel silicides: high-pressure experiments andab initiocalculations. Journal of Physics: Conference Series, 2008, 121, 022013.	0.3	2
254	High-pressure effects on the optical-absorption edge of CdIn2S4, MgIn2S4, and MnIn2S4 thiospinels. Journal of Applied Physics, 2008, 103, .	1.1	51
255	Lattice dynamics of wurtzite and rocksalt AlN under high pressure: Effect of compression on the crystal anisotropy of wurtzite-type semiconductors. Physical Review B, 2008, 77, .	1.1	61
256	Raman scattering in hcp rare gas solids under pressure. Physical Review B, 2008, 78, .	1.1	30
257	High-pressure electronic structure and phase transitions in monoclinic InSe: X-ray diffraction, Raman spectroscopy, and density functional theory. Physical Review B, 2008, 77, .	1.1	40
258	Landau theory applied to phase transitions in calcium orthotungstate and isostructural compounds. Europhysics Letters, 2007, 77, 56001.	0.7	66
259	Structural studies of gadolinium at high pressure and temperature. Physical Review B, 2007, 75, .	1.1	41
260	Melting of transition metals at high pressure and the influence of liquid frustration: The late metals Cu, Ni, and Fe. Physical Review B, 2007, 76, .	1.1	40
261	Melting of transition metals at high pressure and the influence of liquid frustration: The early metals Ta and Mo. Physical Review B, 2007, 76, .	1.1	43
262	Transport measurements under pressure in IIIâ€“IV layered semiconductors. Physica Status Solidi (B): Basic Research, 2007, 244, 162-168.	0.7	10
263	Effect of pressure on the Raman scattering of wurtzite AlN. Physica Status Solidi (B): Basic Research, 2007, 244, 42-47.	0.7	11
264	High pressure structure of Tb2Ti2O7 pyrochlore at cryogenic temperatures. Physica Status Solidi (B): Basic Research, 2007, 244, 266-269.	0.7	12
265	Crystal stability and pressure-induced phase transitions in scheelite AWO4 (A = Ca, Sr, Ba, Pb, Eu) binary oxides. I: A review of recentab initio calculations, ADXRD, XANES, and Raman studies. Physica Status Solidi (B): Basic Research, 2007, 244, 325-330.	0.7	31
266	Crystal stability and pressure-induced phase transitions in scheelite AWO4 (A = Ca, Sr, Ba, Pb, Eu) binary oxides. II: Towards a systematic understanding. Physica Status Solidi (B): Basic Research, 2007, 244, 295-302.	0.7	34
267	Determination of the high-pressure crystal structure ofBaWO4andPbWO4. Physical Review B, 2006, 73, .	1.1	95
268	Theoretical and experimental study of CaWO4 and SrWO4 under pressure. Journal of Physics and Chemistry of Solids, 2006, 67, 2164-2171.	1.9	24
269	Phase behavior of metals at very high Pâ€“T conditions: A review of recent experimental studies. Journal of Physics and Chemistry of Solids, 2006, 67, 2017-2026.	1.9	60
270	High-pressure electrical transport measurements on p-type GaSe and InSe. High Pressure Research, 2006, 26, 513-516.	0.4	33

#	Article	IF	Citations
271	Possible superlattice formation in high-temperature treated carbonaceous MgB2 at elevated pressure. Physica B: Condensed Matter, 2006, 371, 88-94.	1.3	10
272	Lattice dynamics study of scheelite tungstates under high pressure I.BaWO4. Physical Review B, 2006, 74, .	1.1	91
273	Effects of high pressure on the optical absorption spectrum of scintillating PbWO4 crystals. Applied Physics Letters, 2006, 89, 091913.	1.5	69
274	High conductivity of Ga-doped rock-salt ZnO under pressure: Hint on deep-ultraviolet-transparent conducting oxides. Applied Physics Letters, 2006, 88, 011910.	1.5	59
275	Structural transformation of compressed solid Ar: An x-ray diffraction study to114GPa. Physical Review B, 2006, 73, .	1.1	132
276	Lattice dynamics study of scheelite tungstates under high pressure II.PbWO4. Physical Review B, 2006, 74, .	1.1	50
277	High-pressure, high-temperature phase diagram of InSe: A comprehensive study of the electronic and structural properties of the monoclinic phase of InSe under high pressure. Physical Review B, 2006, 73, .	1.1	37
278	Improving the understanding of the melting behaviour of Mo, Ta, and W at extreme pressures. Physica B: Condensed Matter, 2005, 357, 356-364.	1.3	82
279	Pressure-induced transition in titanium metal: a systematic study of the effects of uniaxial stress. Physica B: Condensed Matter, 2005, 355, 116-125.	1.3	350
280	High-pressure X-ray diffraction study of EuWO4 to 12 GPa. Physica Status Solidi (B): Basic Research, 2005, 242, R125-R127.	0.7	48
281	High-pressure structural study of the scheelite tungstatesCaWO4andSrWO4. Physical Review B, 2005, 72, .	1.1	159
282	Crystal symmetry and pressure effects on the valence band structure ofÎ³-InSe andÎµ-GaSe: Transport measurements and electronic structure calculations. Physical Review B, 2005, 71, .	1.1	65
283	A synchrotron MÃ¶ssbauer spectroscopy study of (Mg,Fe)SiO3perovskite up to 120 GPa. American Mineralogist, 2005, 90, 199-205.	0.9	161
284	Reply to Comment on ÂStudy of the phase transformations and equation of state of magnesium by synchrotron x-ray diffractionÂ. Journal of Physics Condensed Matter, 2004, 16, 8795-8799.	0.7	3
285	Comment on ÂTheoretical solid and liquid state shock Hugoniots of Al, Ta, Mo and WÂ. Journal of Physics Condensed Matter, 2004, 16, 8801-8804.	0.7	13
286	Phonon Density of States and Elastic Properties of Fe-based Materials under Compression. Hyperfine Interactions, 2004, 153, 3-15.	0.2	7
287	Effects of pressure on the local atomic structure of CaWO4 and YLiF4: mechanism of the scheelite-to-wolframite and scheelite-to-fergusonite transitions. Journal of Solid State Chemistry, 2004, 177, 1087-1097.	1.4	84
288	Phase transitions and amorphization of CaWO4 at high pressure. Physica Status Solidi (B): Basic Research, 2003, 235, 162-169.	0.7	79

#	Article	IF	Citations
289	Specific features of the electronic structure of IIIâ€“VI layered semiconductors: recent results on structural and optical measurements under pressure and electronic structure calculations. Physica Status Solidi (B): Basic Research, 2003, 235, 267-276.	0.7	26
290	Melting of tantalum at high pressure determined by angle dispersive x-ray diffraction in a double-sided laser-heated diamond-anvil cell. Journal of Physics Condensed Matter, 2003, 15, 7635-7649.	0.7	111
291	Transport measurements in InSe under high pressure and high temperature: shallow-to-deep donor transformation of Sn related donor impurities. Semiconductor Science and Technology, 2003, 18, 241-246.	1.0	16
292	Study of the phase transformations and equation of state of magnesium by synchrotron x-ray diffraction. Journal of Physics Condensed Matter, 2003, 15, 1277-1289.	0.7	65
293	Phase behavior of krypton and xenon to 50 GPa. Physical Review B, 2002, 65, .	1.1	87
294	Precursor effects of the Rhombohedral-to-Cubic Phase Transition in Indium Selenide. High Pressure Research, 2002, 22, 261-266.	0.4	22
295	Melting Curve of Iron: The Never-Ending Story?. High Pressure Research, 2002, 22, 479-483.	0.4	12
296	Crystal Structure Transformations of Rare-Gas Solids Under Pressure. High Pressure Research, 2002, 22, 375-379.	0.4	7
297	CaWO4: A New High-Pressure and High-Temperature Phase. Physica Status Solidi (B): Basic Research, 2002, 231, R1-R3.	0.7	27
298	Experimental and theoretical study of band structure of InSe andIn1â^'xGaxSe(x<0.2)under high pressure:â€‚Direct to indirect crossovers. Physical Review B, 2001, 63, .	1.1	73
299	Systematics of transition-metal melting. Physical Review B, 2001, 63, .	1.1	257
300	Melting of the alkaline-earth metals to 80 GPa. Physical Review B, 2001, 65, .	1.1	77
301	Melting of the Rare Earth Metals andf-Electron Delocalization. Physical Review Letters, 2000, 85, 3444-3447.	2.9	64
302	Effects of pressure and temperature on the dielectric constant of GaS, GaSe, and InSe:â€ƒ Role of the electronic contribution. Physical Review B, 1999, 60, 15866-15874.	1.1	45
303	Pressure Dependence of the Low-Frequency Dielectric Constant in III-VI Semiconductors. Physica Status Solidi (B): Basic Research, 1999, 211, 201-206.	0.7	14
304	Direct to Indirect Crossover in III-VI Layered Compounds and Alloys under Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 33-38.	0.7	20
305	Tin-related double acceptors in gallium selenide single crystals. Journal of Applied Physics, 1998, 83, 4750-4755.	1.1	35
306	Investigation of acceptor levels and hole scattering mechanisms inp-gallium selenide by means of transport measurements under pressure. High Pressure Research, 1998, 16, 13-26.	0.4	12

#	Article	IF	Citations
307	Investigation of conduction-band structure, electron-scattering mechanisms, and phase transitions in indium selenide by means of transport measurements under pressure. Physical Review B, 1997, 55, 16217-16225.	1.1	58
308	Tight-binding study of the electronic and magnetic properties of an L10 ordered FeCu alloy. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 233, 139-142.	0.9	4
309	Pressure Dependence of the Low-Frequency Dielectric Constant of KNbO3. Physica Status Solidi (B): Basic Research, 1997, 203, R1-R2.	0.7	5
310	Effects of Conduction Band Structure and Dimensionality of the Electron Gas on Transport Properties of InSe under Pressure. Physica Status Solidi (B): Basic Research, 1996, 198, 129-134.	0.7	7
311	The indirect magnetic interaction of Fe films separated by Ag layers. Journal of Physics Condensed Matter, 1995, 7, 9439-9445.	0.7	2