

Dongzhou Zhang

List of Publications by Year in descending order

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147
papers

2,741
citations

249298

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252626

46
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150
all docs

150
docs citations

150
times ranked

3796
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of the Lamb-Mössbauer factor at simultaneous high-pressure-temperature conditions and estimates of the equilibrium isotopic fractionation of iron. <i>American Mineralogist</i> , 2022, 107, 421-431.	0.9	5
2	Self-consistent thermodynamic parameters of pyrope and almandine at high-temperature and high-pressure conditions: Implication on the adiabatic temperature gradient. <i>Physics of the Earth and Planetary Interiors</i> , 2022, 322, 106789.	0.7	5
3	The role of intrinsic stacking fault in facilitating the pressure-induced phase transition in CoCrFeMnNi high entropy alloys. <i>Materials Chemistry and Physics</i> , 2022, 275, 125273.	2.0	2
4	Thermal equation of state of F-bearing superhydrous phase B (Mg ₁₀ Si ₃ O ₁₄ (OH,F) ₄): Implications for the transportation of fluorine and water into the lower mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2022, 323, 106824.	0.7	1
5	Effect of Thermoelastic Properties of the Pyrope-Almandine Solid Solutions on the Entrapment Pressure of Garnet-Related Elastic Geobarometer. <i>Frontiers in Earth Science</i> , 2022, 9, .	0.8	0
6	High-Pressure Investigation of 2,4,6-Trinitro-3-bromoanisole (TNBA): Structural Determination and Piezochromism. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1176-1187.	1.5	5
7	Phase Transitions of Fe, Al and Ca Bearing Orthopyroxenes at High Pressure and High Temperature: Implications for Metastable Orthopyroxenes in Stagnant Slabs. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	2
8	Negative linear compressibility in Se at ultra-high pressure above 120 GPa. <i>IUCr</i> , 2022, 9, 253-260.	1.0	3
9	Mechanochemical Synthesis of Nanocrystalline Olivine-Type Mg ₂ SiO ₄ and MgCoSiO ₄ . <i>Crystals</i> , 2022, 12, 369.	1.0	1
10	Thermal equation of state of the main minerals of eclogite: Constraining the density evolution of eclogite during the delamination process in Tibet. <i>Solid Earth</i> , 2022, 13, 745-759.	1.2	1
11	Partnership for eXtreme Xtallography (PX2) – A state-of-the-art experimental facility for extreme-conditions crystallography: A case study of pressure-induced phase transition in natural ilvaite. <i>Matter and Radiation at Extremes</i> , 2022, 7, .	1.5	4
12	Melting and phase relations of Fe-Ni-Si determined by a multi-technique approach. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117358.	1.8	4
13	Tracing electron density changes in langbeinite under pressure. <i>IUCr</i> , 2022, 9, 146-162.	1.0	4
14	Super-hydration and reduction of manganese oxide minerals at shallow terrestrial depths. <i>Nature Communications</i> , 2022, 13, 1942.	5.8	5
15	Drastic enhancement of magnetic critical temperature and amorphization in topological magnet EuSn ₂ P ₂ under pressure. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	9
16	Topological Ordering of Memory Glass on Extended Length Scales. <i>Journal of the American Chemical Society</i> , 2022, 144, 7414-7421.	6.6	8
17	Recent developments on high-pressure single-crystal X-ray diffraction at the Partnership for eXtreme Xtallography (PX2) program. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.3	3
18	Coexistence of vitreous and crystalline phases of H ₂ O at ambient temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	3

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19	Equation of state of elbaite at high pressure up to 21.1 GPa and room temperature. <i>Physics and Chemistry of Minerals</i> , 2022, 49, .	0.3	1
20	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. <i>National Science Review</i> , 2021, 8, nwaa288.	4.6	70
21	The effect of nitrogen on the compressibility and conductivity of iron at high pressure. <i>Geoscience Frontiers</i> , 2021, 12, 983-989.	4.3	14
22	Thermoelasticity and stability of natural epidote at high pressure and high temperature: Implications for water transport during cold slab subduction. <i>Geoscience Frontiers</i> , 2021, 12, 921-928.	4.3	7
23	Constraining the density evolution during destruction of the lithospheric mantle in the eastern North China Craton. <i>Gondwana Research</i> , 2021, 91, 18-30.	3.0	5
24	Enhanced Photocurrent of All-Inorganic Two-Dimensional Perovskite Cs ₂ Pb ₂ Cl ₂ via Pressure-Regulated Excitonic Features. <i>Journal of the American Chemical Society</i> , 2021, 143, 2545-2551.	6.6	79
25	Room temperature facile synthesis of olivine-Co ₂ SiO ₄ nanoparticles utilizing a mechanochemical method. <i>RSC Advances</i> , 2021, 11, 20687-20690.	1.7	5
26	Thermal equation of state of phase egg (AlSiO ₃ OH): implications for hydrous phases in the deep earth. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	2
27	Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites Hg ₃ Te ₂ X ₂ (X = Cl, Br). <i>Nature Communications</i> , 2021, 12, 1509.	5.8	14
28	Ultra-incompressible High-Entropy Diborides. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3106-3113.	2.1	17
29	From Semiconducting to Metallic: Jahn-Teller-Induced Phase Transformation in Skyrmion Host GaV ₄ S ₈ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 5771-5780.	1.5	7
30	Microscopic phase diagram of Eu(Fe _{1-x} Ni _x)As ₂ (x = 0,0.04) under pressure. <i>Physical Review B</i> , 2021, 103, .	1.1	5
31	Regulating Exciton-Phonon Coupling to Achieve a Near-Unity Photoluminescence Quantum Yield in One-Dimensional Hybrid Metal Halides. <i>Advanced Science</i> , 2021, 8, e2100786.	5.6	61
32	Effect of structural water on the elasticity of orthopyroxene. <i>American Mineralogist</i> , 2021, , .	0.9	1
33	High-Pressure Phase Stability and Thermoelastic Properties of Iron Carbonitrides and Nitrogen in the Deep Earth. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021934.	1.4	3
34	A large enhancement of ionic conductivity in SrCoO _{2.5} controlled by isostructural phase transition and negative linear compressibility. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	2
35	The Water-Fe-Pressure dependent single-crystal elastic properties of wadsleyite: Implications for the seismic anisotropy in the upper Mantle Transition Zone. <i>Earth and Planetary Science Letters</i> , 2021, 565, 116955.	1.8	10
36	Experimental calibration of the reduced partition function ratios of tetrahedrally coordinated silicon from the Debye-Waller factors. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	3

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37	High Pressure Behaviors and a Novel High-Pressure Phase of Cuprous Oxide Cu ₂ O. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	0
38	Structural and electronic phase transition in Bi ₂ Se _{2.1} Te _{0.9} under pressure. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 156, 110123.	1.9	1
39	Phase transition mechanism and bandgap engineering of Sb ₂ S ₃ at gigapascal pressures. <i>Communications Chemistry</i> , 2021, 4, .	2.0	16
40	Phase Transitions in Natural Vanadinite at High Pressures. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1217.	0.8	0
41	High-pressure crystal structure and equation of state of ferromagnesian jeffbenite: implications for stability in the transition zone and uppermost lower mantle. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	1
42	Self-Consistent Thermodynamic Parameters of Diopside at High Temperatures and High Pressures: Implications for the Adiabatic Geotherm of an Eclogitic Upper Mantle. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1322.	0.8	2
43	Grain size dependent high-pressure elastic properties of ultrafine micro/nanocrystalline grossular. <i>Scientific Reports</i> , 2021, 11, 22481.	1.6	0
44	Boron-Rich Molybdenum Boride with Unusual Short-Range Vacancy Ordering, Anisotropic Hardness, and Superconductivity. <i>Chemistry of Materials</i> , 2020, 32, 459-467.	3.2	35
45	An Isosymmetric High-Pressure Phase Transition in β -Glycylglycine: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1-10.	1.2	14
46	High-Pressure Phase Transitions in Densely Packed Nanocrystallites of TiO ₂ -II. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1197-1206.	1.5	4
47	Elastic and magnetic properties of Fe ₃ P up to core pressures: Phosphorus in the Earth's core. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115974.	1.8	14
48	Topaz, a Potential Volatile-Carrier in Cold Subduction Zone: Constraint from Synchrotron X-ray Diffraction and Raman Spectroscopy at High Temperature and High Pressure. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1322.	0.8	2
49	Pressure-Induced Phase Transition in Mn(Ta,Nb) ₂ O ₆ : An Experimental Investigation and First-Principle Study. <i>Inorganic Chemistry</i> , 2020, 59, 18122-18130.	1.9	6
50	A new hydrous iron oxide phase stable at mid-mantle pressures. <i>Earth and Planetary Science Letters</i> , 2020, 550, 116551.	1.8	5
51	Spin Transitions and Compressibility of μ -Fe ₇ N ₃ and β -Fe ₄ N: Implications for Iron Alloys in Terrestrial Planet Cores. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020660.	1.4	4
52	Pressure-Induced Selective Amorphization of CsPbBr ₃ for the Purification of Cs ₄ PbBr ₆ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 22291-22297.	1.5	9
53	Pressure-stabilized divalent ozonide CaO ₃ and its impact on Earth's oxygen cycles. <i>Nature Communications</i> , 2020, 11, 4702.	5.8	20
54	Potential Interaction of Noble Gas Atoms and Anionic Electrons in Ca ₂ N. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12213-12219.	1.5	3

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55	From Sodium ⁺ Oxygen to Sodium ⁺ Air Battery: Enabled by Sodium Peroxide Dihydrate. <i>Nano Letters</i> , 2020, 20, 4681-4686.	4.5	31
56	Phase Transition of Enstatite ⁺ Ferrosilite Solid Solutions at High Pressure and High Temperature: Constraints on Metastable Orthopyroxene in Cold Subduction. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087363.	1.5	12
57	The seismically fastest chemical heterogeneity in the Earth's deep upper mantle ⁺ implications from the single-crystal thermoelastic properties of jadeite. <i>Earth and Planetary Science Letters</i> , 2020, 543, 116345.	1.8	7
58	Pressure-driven chemical lock-in structure and optical properties in Sillen compounds PbBiO ₂ X (X = Cl, Br, and I). <i>Journal of Materials Chemistry A</i> , 2020, 8, 13610-13618.	5.2	12
59	An Externally-Heated Diamond Anvil Cell for Synthesis and Single-Crystal Elasticity Determination of Ice-VII at High Pressure-Temperature Conditions. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	12
60	Elasticity of single-crystal Fe-enriched diopside at high-pressure conditions: Implications for the origin of upper mantle low-velocity zones. <i>American Mineralogist</i> , 2020, 105, 363-374.	0.9	5
61	Coesite Formation at Low Pressure during Supersonic Microprojectile Impact of Opal. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1291-1297.	1.2	6
62	Pressure-Induced Superconductivity in the Wide-Band-Gap Semiconductor Cu ₂ Br ₂ Se ₆ with a Robust Framework. <i>Chemistry of Materials</i> , 2020, 32, 6237-6246.	3.2	6
63	Deviatoric stress-induced quasi-reconstructive phase transition in ZnTe. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3795-3799.	2.7	8
64	Structure and Behavior of the Ni End-Member Schreibersite Ni ₃ P under Compression to 50 GPa. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 306.	0.8	2
65	Raman and X-ray diffraction study of pressure-induced phase transition in synthetic Mg ₂ TiO ₄ . <i>Scientific Reports</i> , 2020, 10, 6278.	1.6	2
66	Investigation of the crystal structure of a low water content hydrous olivine to 29.9 GPa: A high-pressure single-crystal X-ray diffraction study. <i>American Mineralogist</i> , 2020, 105, 1857-1865.	0.9	7
67	Experimental Evidence for Partially Dehydrogenated μ -FeOOH. <i>Crystals</i> , 2019, 9, 356.	1.0	3
68	Elasticity of single-crystal low water content hydrous pyrope at high-pressure and high-temperature conditions. <i>American Mineralogist</i> , 2019, 104, 1022-1031.	0.9	9
69	Origin and consequences of non-stoichiometry in iron carbide Fe ₇ C ₃ . <i>American Mineralogist</i> , 2019, 104, 325-332.	0.9	2
70	<i>In Situ</i> Formed Ir ₃ Li Nanoparticles as Active Cathode Material in Li ⁺ Oxygen Batteries. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10047-10056.	1.1	11
71	Pressure-Induced Superconductivity and Flattened Se ₆ Rings in the Wide Band Gap Semiconductor Cu ₂ I ₂ Se ₆ . <i>Journal of the American Chemical Society</i> , 2019, 141, 15174-15182.	6.6	9
72	Structural Phase Transition, Optical and Electrical Property Evolutions of Thiospinel AgIn ₅ S ₈ under High Pressure. <i>Inorganic Chemistry</i> , 2019, 58, 12628-12634.	1.9	12

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73	Synthesis of Manganese Mononitride with Tetragonal Structure under Pressure. <i>Crystals</i> , 2019, 9, 511.	1.0	3
74	High-Pressure Single-Crystal Elasticity and Thermal Equation of State of Omphacite and Their Implications for the Seismic Properties of Eclogite in the Earth's Interior. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2368-2377.	1.4	13
75	Elasticity of single-crystal periclase at high pressure and temperature: The effect of iron on the elasticity and seismic parameters of ferropericlase in the lower mantle. <i>American Mineralogist</i> , 2019, 104, 262-275.	0.9	27
76	Green Emitting Single-Crystalline Bulk Assembly of Metal Halide Clusters with Near-Unity Photoluminescence Quantum Efficiency. <i>ACS Energy Letters</i> , 2019, 4, 1579-1583.	8.8	117
77	Tunable photoluminescence and an enhanced photoelectric response of Mn ²⁺ -doped CsPbCl ₃ perovskite nanocrystals via pressure-induced structure evolution. <i>Nanoscale</i> , 2019, 11, 11660-11670.	2.8	15
78	High-pressure behavior of liebenbergite: The most incompressible olivine-structured silicate. <i>American Mineralogist</i> , 2019, 104, 580-587.	0.9	4
79	Pressure-induced magnetovolume effect in CoCrFeAl high-entropy alloy. <i>Communications Physics</i> , 2019, 2, .	2.0	16
80	Pressure-induced polymorphism and piezochromism in Mn ₂ FeSbO ₆ . <i>Applied Physics Letters</i> , 2019, 114, 162903.	1.5	6
81	Pressure-induced fluorescence enhancement of FA _{1-x} PbBr _{2+1-x} composite perovskites. <i>Nanoscale</i> , 2019, 11, 5868-5873.	2.8	16
82	Pressure-Induced Phase Transitions of Natural Brookite. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 844-853.	1.2	5
83	Enhanced Néel temperature in EuSnP under pressure. <i>Dalton Transactions</i> , 2019, 48, 5327-5334.	1.6	3
84	Deviatoric deformation kinetics in high entropy alloy under hydrostatic compression. <i>Journal of Alloys and Compounds</i> , 2019, 792, 116-121.	2.8	13
85	Hydrogen Effect on the Sound Velocities of Upper Mantle Omphacite. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 690.	0.8	1
86	Compressibility of synthetic Mg-Al tourmalines to 60 GPa. <i>American Mineralogist</i> , 2019, 104, 1005-1015.	0.9	11
87	Crystal-Chemical Properties of Synthetic Almandine-Pyrope Solid Solution by X-Ray Single-Crystal Diffraction and Raman Spectroscopy. <i>Crystals</i> , 2019, 9, 541.	1.0	3
88	Nixonite, Na ₂ Ti ₆ O ₁₃ , a new mineral from a metasomatized mantle garnet pyroxenite from the western Rae Craton, Darby kimberlite field, Canada. <i>American Mineralogist</i> , 2019, 104, 1336-1344.	0.9	3
89	A New High-Pressure Phase Transition in Natural Gedrite. <i>Crystals</i> , 2019, 9, 521.	1.0	2
90	Single-crystal X-ray diffraction of grunerite up to 25.6 GPa: a new high-pressure clinoamphibole polymorph. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 215-227.	0.3	8

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91	Structure-Controlled Oxygen Concentration in Fe ₂ O ₃ and FeO ₂ . <i>Inorganic Chemistry</i> , 2019, 58, 5476-5482.	1.9	10
92	Pressure-induced dehydration of diopside: A single-crystal X-ray diffraction and Raman spectroscopy study. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 121-128.	0.4	0
93	Thermoelastic Properties of Eclogitic Garnets and Omphacites: Implications for Deep Subduction of Oceanic Crust and Density Anomalies in the Upper Mantle. <i>Geophysical Research Letters</i> , 2019, 46, 179-188.	1.5	24
94	Compressional behavior of natural eclogitic zoisite by synchrotron X-ray single-crystal diffraction to 34 GPa. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 333-341.	0.3	3
95	Fast identification of mineral inclusions in diamond at GSECARS using synchrotron X-ray microtomography, radiography and diffraction. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1763-1768.	1.0	9
96	Ice-VII inclusions in diamonds: Evidence for aqueous fluid in Earth's deep mantle. <i>Science</i> , 2018, 359, 1136-1139.	6.0	166
97	Pressure-induced photoluminescence of MgO. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 194002.	0.7	5
98	Phase Transitions in Orthoenstatite and Subduction Zone Dynamics: Effects of Water and Transition Metal Ions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2723-2737.	1.4	20
99	High-Pressure Geophysical Properties of fcc Phase FeH _x . <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 305-314.	1.0	37
100	High-Capacity Sodium Peroxide Based Na ₂ O Batteries with Low Charge Overpotential via a Nanostructured Catalytic Cathode. <i>ACS Energy Letters</i> , 2018, 3, 276-277.	8.8	15
101	Valence and spin states of iron are invisible in Earth's lower mantle. <i>Nature Communications</i> , 2018, 9, 1284.	5.8	35
102	Suppression of the magnetic order in CeFeAsO: Nonequivalence of hydrostatic and in-plane chemical pressure. <i>Physical Review B</i> , 2018, 98, .	1.1	4
103	Equations of State and Anisotropy of Fe-Ni-Si Alloys. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4647-4675.	1.4	21
104	Correlation between Structural Changes and Electrical Transport Properties of Spinel ZnFe ₂ O ₄ Nanoparticles under High Pressure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42856-42864.	4.0	16
105	The high-pressure anisotropic thermoelastic properties of a potential inner core carbon-bearing phase, Fe ₇ C ₃ , by single-crystal X-ray diffraction. <i>American Mineralogist</i> , 2018, 103, 1568-1574.	0.9	14
106	Metal-to-Semiconductor Transition and Electronic Dimensionality Reduction of Ca ₂ N Electride under Pressure. <i>Advanced Science</i> , 2018, 5, 1800666.	5.6	36
107	Red-emitting salicylaldehyde Schiff base with AIE behaviour and large Stokes shift. <i>Chinese Chemical Letters</i> , 2018, 29, 1493-1496.	4.8	35
108	Universal link of magnetic exchange and structural behavior under pressure in chromium spinels. <i>Physical Review B</i> , 2018, 97, .	1.1	24

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109	Pressure Impact on the Crystal Structure, Optical, and Transport Properties in Layered Oxychalcogenides BiCu ₂ Ch ₂ O (Ch = S, Se). Journal of Physical Chemistry C, 2018, 122, 15929-15936.	1.5	15
110	Superconducting and magnetic phase diagram of RbEuFe ₄ and CsEuFe ₄ at high pressure. Physical Review B, 2018, 98, .	1.1	31
111	Irreversible phase transformation in a CoCrFeMnNi high entropy alloy under hydrostatic compression. Materials Today Communications, 2018, 14, 10-14.	0.9	37
112	Dehydrogenation of goethite in Earth's deep lower mantle. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1498-1501.	3.3	83
113	Sound velocity and density of magnesiowüstite: Implications for ultralow-velocity zone topography. Geophysical Research Letters, 2017, 44, 2148-2158.	1.5	48
114	Effects of water on P-V-T equation of state of pyrope. Physics of the Earth and Planetary Interiors, 2017, 267, 9-18.	0.7	9
115	Pressure-Induced Bandgap Optimization in Lead-Based Perovskites with Prolonged Carrier Lifetime and Ambient Retainability. Advanced Functional Materials, 2017, 27, 1604208.	7.8	167
116	Sodium Peroxide Dihydrate or Sodium Superoxide: The Importance of the Cell Configuration for Sodium-Oxygen Batteries. Small Methods, 2017, 1, 1700102.	4.6	34
117	Making a fine-scale ruler for oxide inclusions. American Mineralogist, 2017, 102, 1969-1970.	0.9	0
118	High Pressure Single Crystal Diffraction at PX ² . Journal of Visualized Experiments, 2017, , .	0.2	35
119	Single-crystal equations of state of magnesiowüstite at high pressures. American Mineralogist, 2017, 102, 1709-1717.	0.9	9
120	High-Pressure CaMgSi ₂ O ₆ : Does Penta-Coordinated Silicon Exist in the Earth's Mantle?. Geophysical Research Letters, 2017, 44, 11,340.	1.5	18
121	Thermal Equation of State of Natural Ti-Bearing Clinohumite. Journal of Geophysical Research: Solid Earth, 2017, 122, 8943-8951.	1.4	12
122	Comparing the Pressure-Induced Structural Behavior of CuCr ₂ O ₄ and CuCr ₂ Se ₄ Spinels. Journal of Physical Chemistry C, 2017, 121, 16513-16520.	1.5	10
123	Experimental evidence for the survival of augite to transition zone depths, and implications for subduction zone dynamics. American Mineralogist, 2017, 102, 1516-1524.	0.9	11
124	Isosymmetric pressure-induced bonding increase changes compression behavior of clinopyroxenes across jadeite-aegirine solid solution in subduction zones. Journal of Geophysical Research: Solid Earth, 2017, 122, 142-157.	1.4	11
125	Thermoelastic properties of grossular-andradite solid solution at high pressures and temperatures. Physics and Chemistry of Minerals, 2017, 44, 137-147.	0.3	8
126	High-pressure compressibility and vibrational properties of (Ca,Mn)CO ₃ . American Mineralogist, 2016, 101, 2723-2730.	0.9	29

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127	Compressional behavior of omphacite to 47 GPa. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 707-715.	0.3	9
128	High-pressure behavior of natural single-crystal epidote and clinozoisite up to 40 GPa. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 649-659.	0.3	16
129	Simultaneous band-gap narrowing and carrier-lifetime prolongation of organic-inorganic trihalide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8910-8915.	3.3	269
130	Temperature of Earth's core constrained from melting of Fe and Fe _{0.9} Ni _{0.1} at high pressures. <i>Earth and Planetary Science Letters</i> , 2016, 447, 72-83.	1.8	55
131	Thermal equation of state of natural tourmaline at high pressure and temperature. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 315-326.	0.3	18
132	Fault Slip Distribution of the 1999 Mw 7.1 Hector Mine Earthquake, California, Estimated from Postearthquake Airborne LiDAR Data. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 776-790.	1.1	19
133	Fast temperature spectrometer for samples under extreme conditions. <i>Review of Scientific Instruments</i> , 2015, 86, 013105.	0.6	12
134	P-V-T equation of state of Ca ₃ Cr ₂ Si ₃ O ₁₂ uvarovite garnet by using a diamond-anvil cell and in-situ synchrotron X-ray diffraction. <i>American Mineralogist</i> , 2015, 100, 588-597.	0.9	10
135	Compressibility and equation of state of beryl (Be ₃ Al ₂ Si ₆ O ₁₈) by using a diamond anvil cell and in situ synchrotron X-ray diffraction. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 529-539.	0.3	18
136	P-V-T equation of state of spessartine-almandine solid solution measured using a diamond anvil cell and in situ synchrotron X-ray diffraction. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 63-72.	0.3	9
137	Hidden carbon in Earth's inner core revealed by shear softening in dense Fe ₇ C ₃ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17755-17758.	3.3	96
138	Silylation of mechanically ground kaolinite. <i>Clay Minerals</i> , 2014, 49, 559-568.	0.2	14
139	Elasticity and lattice dynamics of enstatite at high pressure. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4071-4082.	1.4	29
140	High Pressure Elastic Behavior of Synthetic Mg ₃ Y ₂ (Si ₄) ₃ Garnet up to 9 GPa. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-6.	1.0	8
141	Compressibility of mimetite and pyromorphite at high pressure. <i>High Pressure Research</i> , 2013, 33, 27-34.	0.4	5
142	Spin crossover equation of state and sound velocities of (Mg _{0.65} Fe _{0.35})O ferropericlase to 140 GPa. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
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