Dongzhou Zhang

List of Publications by Year
in descending order

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147	2,741	218677	223800
papers	citations	26 h-index	46 g-index

150	150	150	3325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simultaneous band-gap narrowing and carrier-lifetime prolongation of organicâ€“inorganic trihalide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8910-8915.	7.1	269
2	Pressureâ€Induced Bandgap Optimization in Leadâ€Based Perovskites with Prolonged Carrier Lifetime and Ambient Retainability. Advanced Functional Materials, 2017, 27, 1604208.	14.9	167
3	Ice-VII inclusions in diamonds: Evidence for aqueous fluid in Earthâ€™s deep mantle. Science, 2018, 359, 1136-1139.	12.6	166
4	Green Emitting Single-Crystalline Bulk Assembly of Metal Halide Clusters with Near-Unity Photoluminescence Quantum Efficiency. ACS Energy Letters, 2019, 4, 1579-1583.	17.4	117
5	Hidden carbon in Earthâ€™s inner core revealed by shear softening in dense Fe ₇ C ₃. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17755-17758.	7.1	96
6	Patterning Mammalian Cells for Modeling Three Types of Naturally Occurring Cellâ€“Cell Interactions. Angewandte Chemie - International Edition, 2009, 48, 8303-8305.	13.8	90
7	Dehydrogenation of goethite in Earthâ€™s deep lower mantle. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1498-1501.	7.1	83
8	Enhanced Photocurrent of All-Inorganic Two-Dimensional Perovskite Cs₂PbI₂Cl₂ via Pressure-Regulated Excitonic Features. Journal of the American Chemical Society, 2021, 143, 2545-2551.	13.7	79
9	Regulating off-centering distortion maximizes photoluminescence in halide perovskites. National Science Review, 2021, 8, nwaa288.	9.5	70
10	Regulating Excitonâ€“Phonon Coupling to Achieve a Nearâ€Unity Photoluminescence Quantum Yield in Oneâ€Dimensional Hybrid Metal Halides. Advanced Science, 2021, 8, e2100786.	11.2	61
11	Temperature of Earth's core constrained from melting of Fe and Fe0.9Ni0.1 at high pressures. Earth and Planetary Science Letters, 2016, 447, 72-83.	4.4	55
12	Sound velocity and density of magnesiowÃ¼stites: Implications for ultralowâ€velocity zone topography. Geophysical Research Letters, 2017, 44, 2148-2158.	4.0	48
13	Highâ€Pressure Geophysical Properties of Fcc Phase FeH_X. Geochemistry, Geophysics, Geosystems, 2018, 19, 305-314.	2.5	37
14	Irreversible phase transformation in a CoCrFeMnNi high entropy alloy under hydrostatic compression. Materials Today Communications, 2018, 14, 10-14.	1.9	37
15	Metalâ€toâ€Semiconductor Transition and Electronic Dimensionality Reduction of Ca₂N Electride under Pressure. Advanced Science, 2018, 5, 1800666.	11.2	36
16	High Pressure Single Crystal Diffraction at PX^2. Journal of Visualized Experiments, 2017, , .	0.3	35
17	Valence and spin states of iron are invisible in Earthâ€™s lower mantle. Nature Communications, 2018, 9, 1284.	12.8	35
18	Red-emitting salicylaldehyde Schiff base with AIE behaviour and large Stokes shift. Chinese Chemical Letters, 2018, 29, 1493-1496.	9.0	35

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19	Boron-Rich Molybdenum Boride with Unusual Short-Range Vacancy Ordering, Anisotropic Hardness, and Superconductivity. Chemistry of Materials, 2020, 32, 459-467.	6.7	35
20	Sodium Peroxide Dihydrate or Sodium Superoxide: The Importance of the Cell Configuration for Sodiumâ€“Oxygen Batteries. Small Methods, 2017, 1, 1700102.	8.6	34
21	Spin crossover equation of state and sound velocities of (Mg_{0.65}Fe_{0.35})O ferropericlase to 140 GPa. Journal of Geophysical Research, 2012, 117, .	3.3	32
22	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, .	3.2	31
23	From Sodiumâ€“Oxygen to Sodiumâ€“Air Battery: Enabled by Sodium Peroxide Dihydrate. Nano Letters, 2020, 20, 4681-4686.	9.1	31
24	Elasticity and lattice dynamics of enstatite at high pressure. Journal of Geophysical Research: Solid Earth, 2013, 118, 4071-4082.	3.4	29
25	High-pressure compressibility and vibrational properties of (Ca,Mn)CO₃. American Mineralogist, 2016, 101, 2723-2730.	1.9	29
26	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. American Mineralogist, 2019, 104, 262-275.	1.9	27
27	Universal link of magnetic exchange and structural behavior under pressure in chromium spinels. Physical Review B, 2018, 97, .	3.2	24
28	Thermoelastic Properties of Eclogitic Garnets and Omphacites: Implications for Deep Subduction of Oceanic Crust and Density Anomalies in the Upper Mantle. Geophysical Research Letters, 2019, 46, 179-188.	4.0	24
29	Equations of State and Anisotropy of Feâ€Niâ€Si Alloys. Journal of Geophysical Research: Solid Earth, 2018, 123, 4647-4675.	3.4	21
30	Control of the morphology of micro/nanostructures of polycarbonate via electrospinning. Science Bulletin, 2009, 54, 2911-2917.	1.7	20
31	Phase Transitions in Orthoenstatite and Subduction Zone Dynamics: Effects of Water and Transition Metal Ions. Journal of Geophysical Research: Solid Earth, 2018, 123, 2723-2737.	3.4	20
32	Pressure-stabilized divalent ozonide CaO3 and its impact on Earthâ€™s oxygen cycles. Nature Communications, 2020, 11, 4702.	12.8	20
33	Faultâ€Slip Distribution of the 1999MwÂ7.1 Hector Mine Earthquake, California, Estimated from Postearthquake Airborne LiDAR Data. Bulletin of the Seismological Society of America, 2015, 105, 776-790.	2.3	19
34	Compressibility and equation of state of beryl (Be3Al2Si6O18) by using a diamond anvil cell and in situ synchrotron X-ray diffraction. Physics and Chemistry of Minerals, 2015, 42, 529-539.	0.8	18
35	Thermal equation of state of natural tourmaline at high pressure and temperature. Physics and Chemistry of Minerals, 2016, 43, 315-326.	0.8	18
36	Highâ€Pressure Î³â€CaMgSi₂O₆: Does Pentaâ€Coordinated Silicon Exist in the Earth's Mantle?. Geophysical Research Letters, 2017, 44, 11,340.	4.0	18

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37	Ultra-incompressible High-Entropy Diborides. Journal of Physical Chemistry Letters, 2021, 12, 3106-3113.	4.6	17
38	Thermal equation of state of natural chromium spinel up to 26.8 GPa and 628 K. Journal of Materials Science, 2008, 43, 5546-5550.	3.7	16
39	High-pressure behavior of natural single-crystal epidote and clinozoisite up to 40 GPa. Physics and Chemistry of Minerals, 2016, 43, 649-659.	0.8	16
40	Correlation between Structural Changes and Electrical Transport Properties of Spinel ZnFe₂O₄ Nanoparticles under High Pressure. ACS Applied Materials & Interfaces, 2018, 10, 42856-42864.	8.0	16
41	Pressure-induced magnetovolume effect in CoCrFeAl high-entropy alloy. Communications Physics, 2019, 2, .	5.3	16
42	Pressure-induced fluorescence enhancement of FA_{Î±}PbBr_{2+Î±} composite perovskites. Nanoscale, 2019, 11, 5868-5873.	5.6	16
43	Phase transition mechanism and bandgap engineering of Sb2S3 at gigapascal pressures. Communications Chemistry, 2021, 4, .	4.5	16
44	High-Capacity Sodium Peroxide Based Naâ€“O₂ Batteries with Low Charge Overpotential via a Nanostructured Catalytic Cathode. ACS Energy Letters, 2018, 3, 276-277.	17.4	15
45	Pressure Impact on the Crystal Structure, Optical, and Transport Properties in Layered Oxychalcogenides BiCuChO (Ch = S, Se). Journal of Physical Chemistry C, 2018, 122, 15929-15936.	3.1	15
46	Tunable photoluminescence and an enhanced photoelectric response of Mn²⁺-doped CsPbCl₃ perovskite nanocrystals via pressure-induced structure evolution. Nanoscale, 2019, 11, 11660-11670.	5.6	15
47	Local structure variations observed in orthoenstatite at high pressures. American Mineralogist, 2011, 96, 1585-1592.	1.9	14
48	Silylation of mechanically ground kaolinite. Clay Minerals, 2014, 49, 559-568.	0.6	14
49	The high-pressure anisotropic thermoelastic properties of a potential inner core carbon-bearing phase, Fe7C3, by single-crystal X-ray diffraction. American Mineralogist, 2018, 103, 1568-1574.	1.9	14
50	An Isosymmetric High-Pressure Phase Transition in Î±-Glycylglycine: A Combined Experimental and Theoretical Study. Journal of Physical Chemistry B, 2020, 124, 1-10.	2.6	14
51	Elastic and magnetic properties of Fe3P up to core pressures: Phosphorus in the Earth's core. Earth and Planetary Science Letters, 2020, 531, 115974.	4.4	14
52	The effect of nitrogen on the compressibility and conductivity of iron at high pressure. Geoscience Frontiers, 2021, 12, 983-989.	8.4	14
53	Pressure-induced ferroelectric-like transition creates a polar metal in defect antiperovskites Hg3Te2X2 (Xâ€‰=â€‰Cl, Br). Nature Communications, 2021, 12, 1509.	12.8	14
54	Highâ€Pressure Singleâ€Crystal Elasticity and Thermal Equation of State of Omphacite and Their Implications for the Seismic Properties of Eclogite in the Earth's Interior. Journal of Geophysical Research: Solid Earth, 2019, 124, 2368-2377.	3.4	13

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55	Deviatoric deformation kinetics in high entropy alloy under hydrostatic compression. Journal of Alloys and Compounds, 2019, 792, 116-121.	5.5	13
56	Fast temperature spectrometer for samples under extreme conditions. Review of Scientific Instruments, 2015, 86, 013105.	1.3	12
57	Thermal Equation of State of Natural Tiâ€Bearing Clinohumite. Journal of Geophysical Research: Solid Earth, 2017, 122, 8943-8951.	3.4	12
58	Structural Phase Transition, Optical and Electrical Property Evolutions of Thiospinel AgIn₅S₈ under High Pressure. Inorganic Chemistry, 2019, 58, 12628-12634.	4.0	12
59	Phase Transition of Enstatiteâ€Ferrosilite Solid Solutions at High Pressure and High Temperature: Constraints on Metastable Orthopyroxene in Cold Subduction. Geophysical Research Letters, 2020, 47, e2020GL087363.	4.0	12
60	Pressure-driven chemical lock-in structure and optical properties in Sillen compounds PbBiO₂X (X = Cl, Br, and I). Journal of Materials Chemistry A, 2020, 8, 13610-13618.	10.3	12
61	An Externally-Heated Diamond Anvil Cell for Synthesis and Single-Crystal Elasticity Determination of Ice-VII at High Pressure-Temperature Conditions. Journal of Visualized Experiments, 2020, , .	0.3	12
62	Experimental evidence for the survival of augite to transition zone depths, and implications for subduction zone dynamics. American Mineralogist, 2017, 102, 1516-1524.	1.9	11
63	Isosymmetric pressureâ€induced bonding increase changes compression behavior of clinopyroxenes across jadeiteâ€aegirine solid solution in subduction zones. Journal of Geophysical Research: Solid Earth, 2017, 122, 142-157.	3.4	11
64	In Situ Formed Ir₃Li Nanoparticles as Active Cathode Material in Liâ€“Oxygen Batteries. Journal of Physical Chemistry A, 2019, 123, 10047-10056.	2.5	11
65	Compressibility of synthetic Mg-Al tourmalines to 60 GPa. American Mineralogist, 2019, 104, 1005-1015.	1.9	11
66	P-V-T equation of state of Ca3Cr2Si3O12 uvarovite garnet by using a diamond-anvil cell and in-situ synchrotron X-ray diffraction. American Mineralogist, 2015, 100, 588-597.	1.9	10
67	Comparing the Pressure-Induced Structural Behavior of CuCr₂O₄ and CuCr₂Se₄ Spinels. Journal of Physical Chemistry C, 2017, 121, 16513-16520.	3.1	10
68	Structure-Controlled Oxygen Concentration in Fe₂O₃ and FeO₂. Inorganic Chemistry, 2019, 58, 5476-5482.	4.0	10
69	The Water-Fe-Pressure dependent single-crystal elastic properties of wadsleyite: Implications for the seismic anisotropy in the upper Mantle Transition Zone. Earth and Planetary Science Letters, 2021, 565, 116955.	4.4	10
70	Pâ€“Vâ€“T equation of state of spessartineâ€“almandine solid solution measured using a diamond anvil cell and in situ synchrotron X-ray diffraction. Physics and Chemistry of Minerals, 2015, 42, 63-72.	0.8	9
71	Compressional behavior of omphacite to 47ÂGPa. Physics and Chemistry of Minerals, 2016, 43, 707-715.	0.8	9
72	Effects of water on P-V-T equation of state of pyrope. Physics of the Earth and Planetary Interiors, 2017, 267, 9-18.	1.9	9

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73	Single-crystal equations of state of magnesiowÃ¼stite at high pressures. American Mineralogist, 2017, 102, 1709-1717.	1.9	9
74	Elasticity of single-crystal low water content hydrous pyrope at high-pressure and high-temperature conditions. American Mineralogist, 2019, 104, 1022-1031.	1.9	9
75	Pressure-Induced Superconductivity and Flattened Se₆ Rings in the Wide Band Gap Semiconductor Cu₂I₂Se₆. Journal of the American Chemical Society, 2019, 141, 15174-15182.	13.7	9
76	Pressure-Induced Selective Amorphization of CsPbBr₃ for the Purification of Cs₄PbBr₆. Journal of Physical Chemistry C, 2020, 124, 22291-22297.	3.1	9
77	Fast identification of mineral inclusions in diamondÂat GSECARS using synchrotron X-ray microtomography, radiography and diffraction. Journal of Synchrotron Radiation, 2019, 26, 1763-1768.	2.4	9
78	Drastic enhancement of magnetic critical temperature and amorphization in topological magnet EuSn2P2 under pressure. Npj Quantum Materials, 2022, 7, .	5.2	9
79	High Pressure Elastic Behavior of Synthetic Mg₃Y₂(SiO₄)₃Garnet up to 9â€‰GPa. Advances in Materials Science and Engineering, 2013, 2013, 1-6.	1.8	8
80	Thermoelastic properties of grossularâ€“andradite solid solution at high pressures and temperatures. Physics and Chemistry of Minerals, 2017, 44, 137-147.	0.8	8
81	Single-crystal X-ray diffraction of grunerite up to 25.6ÂGPa: a new high-pressure clinoamphibole polymorph. Physics and Chemistry of Minerals, 2019, 46, 215-227.	0.8	8
82	Deviatoric stress-induced quasi-reconstructive phase transition in ZnTe. Journal of Materials Chemistry C, 2020, 8, 3795-3799.	5.5	8
83	Topological Ordering of Memory Glass on Extended Length Scales. Journal of the American Chemical Society, 2022, 144, 7414-7421.	13.7	8
84	The seismically fastest chemical heterogeneity in the Earth's deep upper mantleâ€”implications from the single-crystal thermoelastic properties of jadeite. Earth and Planetary Science Letters, 2020, 543, 116345.	4.4	7
85	Thermoelasticity and stability of natural epidote at high pressure and high temperature: Implications for water transport during cold slab subduction. Geoscience Frontiers, 2021, 12, 921-928.	8.4	7
86	From Semiconducting to Metallic: Jahnâ€“Teller-Induced Phase Transformation in Skyrmion Host GaV4S8. Journal of Physical Chemistry C, 2021, 125, 5771-5780.	3.1	7
87	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. American Mineralogist, 2020, 105, 1857-1865.	1.9	7
88	Pressure-induced polymorphism and piezochromism in Mn2FeSbO6. Applied Physics Letters, 2019, 114, 162903.	3.3	6
89	Pressure-Induced Phase Transition in Mn(Ta,Nb)₂O₆: An Experimental Investigation and First-Principle Study. Inorganic Chemistry, 2020, 59, 18122-18130.	4.0	6
90	Coesite Formation at Low Pressure during Supersonic Microprojectile Impact of Opal. ACS Earth and Space Chemistry, 2020, 4, 1291-1297.	2.7	6

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91	Pressure-Induced Superconductivity in the Wide-Band-Gap Semiconductor Cu2Br2Se6 with a Robust Framework. Chemistry of Materials, 2020, 32, 6237-6246.	6.7	6
92	Compressibility of mimetite and pyromorphite at high pressure. High Pressure Research, 2013, 33, 27-34.	1.2	5
93	Pressure-induced photoluminescence of MgO. Journal of Physics Condensed Matter, 2018, 30, 194002.	1.8	5
94	Pressure-Induced Phase Transitions of Natural Brookite. ACS Earth and Space Chemistry, 2019, 3, 844-853.	2.7	5
95	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	2.6	5
96	A new hydrous iron oxide phase stable at mid-mantle pressures. Earth and Planetary Science Letters, 2020, 550, 116551.	4.4	5
97	Elasticity of single-crystal Fe-enriched diopside at high-pressure conditions: Implications for the origin of upper mantle low-velocity zones. American Mineralogist, 2020, 105, 363-374.	1.9	5
98	Constraining the density evolution during destruction of the lithospheric mantle in the eastern North China Craton. Gondwana Research, 2021, 91, 18-30.	6.0	5
99	Room temperature facile synthesis of olivine-Co₂SiO₄ nanoparticles utilizing a mechanochemical method. RSC Advances, 2021, 11, 20687-20690.	3.6	5
100	Measurements of the Lamb-MÃ¶ssbauer factor at simultaneous high-pressure-temperature conditions and estimates of the equilibrium isotopic fractionation of iron. American Mineralogist, 2022, 107, 421-431.	1.9	5
101	Microscopic phase diagram of Eu(Fe1â^'xNix)As2 (x = 0,0.04) under pressure. Physical Review B, 2021, 103, .	3.2	5
102	Self-consistent thermodynamic parameters of pyrope and almandine at high-temperature and high-pressure conditions: Implication on the adiabatic temperature gradient. Physics of the Earth and Planetary Interiors, 2022, 322, 106789.	1.9	5
103	High-Pressure Investigation of 2,4,6-Trinitro-3-bromoanisole (TNBA): Structural Determination and Piezochromism. Journal of Physical Chemistry C, 2022, 126, 1176-1187.	3.1	5
104	Super-hydration and reduction of manganese oxide minerals at shallow terrestrial depths. Nature Communications, 2022, 13, 1942.	12.8	5
105	Suppression of the magnetic order in CeFeAsO: Nonequivalence of hydrostatic and in-plane chemical pressure. Physical Review B, 2018, 98, .	3.2	4
106	High-pressure behavior of liebenbergite: The most incompressible olivine-structured silicate. American Mineralogist, 2019, 104, 580-587.	1.9	4
107	High-Pressure Phase Transitions in Densely Packed Nanocrystallites of TiO₂-II. Journal of Physical Chemistry C, 2020, 124, 1197-1206.	3.1	4
108	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.	3.4	4

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109	Partnership for eXtreme Xtallography (PX2)â€"A state-of-the-art experimental facility for extreme-conditions crystallography: A case study of pressure-induced phase transition in natural ilvaite. Matter and Radiation at Extremes, 2022, 7, .	3.9	4
110	Melting and phase relations of Fe-Ni-Si determined by a multi-technique approach. Earth and Planetary Science Letters, 2022, 584, 117358.	4.4	4
111	Tracing electron density changes in langbeinite under pressure. IUCrJ, 2022, 9, 146-162.	2.2	4
112	Experimental Evidence for Partially Dehydrogenated Îµ-FeOOH. Crystals, 2019, 9, 356.	2.2	3
113	Synthesis of Manganese Mononitride with Tetragonal Structure under Pressure. Crystals, 2019, 9, 511.	2.2	3
114	Enhanced NÃ©el temperature in EuSnP under pressure. Dalton Transactions, 2019, 48, 5327-5334.	3.3	3
115	Crystal-Chemical Properties of Synthetic Almandine-Pyrope Solid Solution by X-Ray Single-Crystal Diffraction and Raman Spectroscopy. Crystals, 2019, 9, 541.	2.2	3
116	Nixonite, Na2Ti6O13, a new mineral from a metasomatized mantle garnet pyroxenite from the western Rae Craton, Darby kimberlite field, Canada. American Mineralogist, 2019, 104, 1336-1344.	1.9	3
117	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.	0.8	3
118	Potential Interaction of Noble Gas Atoms and Anionic Electrons in Ca₂N. Journal of Physical Chemistry C, 2020, 124, 12213-12219.	3.1	3
119	Highâ€Pressure Phase Stability and Thermoelastic Properties of Iron Carbonitrides and Nitrogen in the Deep Earth. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021934.	3.4	3
120	Experimental calibration of the reduced partition function ratios of tetrahedrally coordinated silicon from the Debyeâ€"Waller factors. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	3
121	Negative linear compressibility in Se at ultra-high pressure above 120 GPa. IUCrJ, 2022, 9, 253-260.	2.2	3
122	Recent developments on high-pressure single-crystal X-ray diffraction at the Partnership for eXtreme Xtallography (PX2) program. Physics and Chemistry of Minerals, 2022, 49, .	0.8	3
123	Coexistence of vitreous and crystalline phases of H ₂ O at ambient temperature. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	3
124	Origin and consequences of non-stoichiometry in iron carbide Fe7C3. American Mineralogist, 2019, 104, 325-332.	1.9	2
125	A New High-Pressure Phase Transition in Natural Gedrite. Crystals, 2019, 9, 521.	2.2	2
126	Structure and Behavior of the Ni End-Member Schreibersite Ni3P under Compression to 50 GPa. Minerals (Basel, Switzerland), 2020, 10, 306.	2.0	2

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127	Raman and X-ray diffraction study of pressure-induced phase transition in synthetic Mg2TiO4. Scientific Reports, 2020, 10, 6278.	3.3	2
128	Thermal equation of state of phase egg (AlSiO3OH): implications for hydrous phases in the deep earth. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	2
129	A large enhancement of ionic conductivity in SrCoO2.5 controlled by isostructural phase transition and negative linear compressibility. Applied Physics Letters, 2021, 119, .	3.3	2
130	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.	4.0	2
131	Self-Consistent Thermodynamic Parameters of Diopside at High Temperatures and High Pressures: Implications for the Adiabatic Geotherm of an Eclogitic Upper Mantle. Minerals (Basel, Switzerland), 2021, 11, 1322.	2.0	2
132	Phase Transitions of Feâ€‚Alâ€•and Caâ€Bearing Orthopyroxenes at High Pressure and High Temperature: Implications for Metastable Orthopyroxenes in Stagnant Slabs. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	2
133	Hydrogen Effect on the Sound Velocities of Upper Mantle Omphacite. Minerals (Basel, Switzerland), 2019, 9, 690.	2.0	1
134	Effect of structural water on the elasticity of orthopyroxene. American Mineralogist, 2021, , .	1.9	1
135	Structural and electronic phase transition in Bi2Se2.1Te0.9 under pressure. Journal of Physics and Chemistry of Solids, 2021, 156, 110123.	4.0	1
136	High-pressure crystal structure and equation of state of ferromagnesian jeffbenite: implications for stability in the transition zone and uppermost lower mantle. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	1
137	Thermal equation of state of F-bearing superhydrous phase B (Mg10Si3O14(OH,F)4): Implications for the transportation of fluorine and water into the lower mantle. Physics of the Earth and Planetary Interiors, 2022, 323, 106824.	1.9	1
138	Mechanochemical Synthesis of Nanocrystalline Olivine-Type Mg2SiO4 and MgCoSiO4. Crystals, 2022, 12, 369.	2.2	1
139	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.	2.8	1
140	Stability and Thermoelasticity of Diaspore by Synchrotron X-ray Diffraction and Raman Spectroscopy. Frontiers in Earth Science, 0, 9, .	1.8	1
141	Equation of state of elbaite at high pressure up to 21.1 GPa and room temperature. Physics and Chemistry of Minerals, 2022, 49, .	0.8	1
142	Making a fine-scale ruler for oxide inclusions. American Mineralogist, 2017, 102, 1969-1970.	1.9	0
143	Pressure-induced dehydration of dioptase: A single-crystal X-ray diffraction and Raman spectroscopy study. Comptes Rendus - Geoscience, 2019, 351, 121-128.	1.2	0
144	High Pressure Behaviors and a Novel High-Pressure Phase of Cuprous Oxide Cu2O. Frontiers in Earth Science, 2021, 9, .	1.8	0

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145	Phase Transitions in Natural Vanadinite at High Pressures. Minerals (Basel, Switzerland), 2021, 11, 1217.	2.0	0
146	Grain size dependent high-pressure elastic properties of ultrafine micro/nanocrystalline grossular. Scientific Reports, 2021, 11, 22481.	3.3	0
147	Effect of Thermoelastic Properties of the Pyrope-Almandine Solid Solutions on the Entrapment Pressure of Garnet-Related Elastic Geobarometer. Frontiers in Earth Science, 2022, 9, .	1.8	0