

Dawei Fan

List of Publications by Year in descending order

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papers

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687363

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#	ARTICLE	IF	CITATIONS
1	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.	1.9	5
2	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, .	1.8	0
3	Phase Transitions of Fe ²⁺ , Al ³⁺ and Ca ²⁺ -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, .	3.4	2
4	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.	2.8	1
5	Thermal equation of state of Cr-pyrope: implications for entrapment pressure of Cr-pyrope inclusion in diamond. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, .	3.1	0
6	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.	8.4	7
7	Constraining the density evolution during destruction of the lithospheric mantle in the eastern North China Craton. <i>Gondwana Research</i> , 2021, 91, 18-30.	6.0	5
8	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.	2.0	2
9	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, 1408.	1.0	1
10	Phase Transition of Enstatite ²⁺ -Ferrosilite Solid Solutions at High Pressure and High Temperature: Constraints on Metastable Orthopyroxene in Cold Subduction. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087363.	4.0	12
11	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.	1.9	5
12	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.	1.9	7
13	Elasticity of single-crystal low water content hydrous pyrope at high-pressure and high-temperature conditions. <i>American Mineralogist</i> , 2019, 104, 1022-1031.	1.9	9
14	Pressure-temperature phase diagram and thermoelastic behavior of manganese fluoride up to 13.1 GPa and 700 K. <i>Materials Research Express</i> , 2019, 6, 116115.	1.6	1
15	High-pressure in-situ X-ray diffraction and Raman spectroscopy of Ca ₂ AlFeO ₅ brownmillerite. <i>High Pressure Research</i> , 2019, 39, 92-105.	1.2	4
16	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.	1.9	27
17	Crystal size distribution of amphibole grown from hydrous basaltic melt at 0.6–2.6 GPa and 860–970 Å°C. <i>American Mineralogist</i> , 2019, 104, 525-535.	1.9	8
18	Phase transition and thermoelastic behavior of barite-group minerals at high-pressure and high-temperature conditions. <i>Physics and Chemistry of Minerals</i> , 2019, 46, 607-621.	0.8	6

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19	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.	4.0	24
20	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.	0.8	3
21	Thermodynamic properties of San Carlos olivine at high temperature and high pressure. <i>Acta Geochimica</i> , 2018, 37, 171-179.	1.7	11
22	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.	3.4	20
23	Compressibility and expansivity of anglesite (PbSO ₄) using in situ synchrotron X-ray diffraction at high-pressure and high-temperature conditions. <i>Physics and Chemistry of Minerals</i> , 2018, 45, 883-893.	0.8	7
24	FRactal ANALYSIS OF AMPHIBOLE AGGREGATION GROWTH FROM A BASALTIC MELT AND RESIDUAL MELT AT HIGH PRESSURE AND HIGH TEMPERATURE. <i>Fractals</i> , 2018, 26, 1850032.	3.7	0
25	Effects of water on P-V-T equation of state of pyrope. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 267, 9-18.	1.9	9
26	Experimental evidence for the survival of augite to transition zone depths, and implications for subduction zone dynamics. <i>American Mineralogist</i> , 2017, 102, 1516-1524.	1.9	11
27	Isosymmetric pressure-induced bonding increase changes compression behavior of clinopyroxenes across jadeite-aegirine solid solution in subduction zones. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 142-157.	3.4	11
28	Thermoelastic properties of grossular-andradite solid solution at high pressures and temperatures. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 137-147.	0.8	8
29	High-pressure compressibility and vibrational properties of (Ca,Mn)CO ₃ . <i>American Mineralogist</i> , 2016, 101, 2723-2730.	1.9	29
30	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.	0.8	16
31	Influence of Hydrogen on the Thermoelastic Properties of the Major Rock-Forming Minerals in the Upper Mantle. <i>Acta Geologica Sinica</i> , 2016, 90, 1933-1934.	1.4	7
32	Thermal equation of state of natural tourmaline at high pressure and temperature. <i>Physics and Chemistry of Minerals</i> , 2016, 43, 315-326.	0.8	18
33	Hierarchical densification and negative thermal expansion in Ce-based metallic glass under high pressure. <i>Nature Communications</i> , 2015, 6, 5703.	12.8	38
34	High-pressure study of azurite Cu ₃ (CO ₃) ₂ (OH) ₂ by synchrotron radiation X-ray diffraction and Raman spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 805-816.	0.8	11
35	Elasticity of single-crystal olivine at high pressures and temperatures. <i>Earth and Planetary Science Letters</i> , 2015, 426, 204-215.	4.4	61
36	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.	1.9	10

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37	Compressibility of carbonophosphate bradleyite $\text{Na}_3\text{Mg}(\text{CO}_3)(\text{PO}_4)$ by X-ray diffraction and Raman spectroscopy. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 191-201.	0.8	16
38	Compressibility and equation of state of beryl ($\text{Be}_3\text{Al}_2\text{Si}_6\text{O}_{18}$) by using a diamond anvil cell and in situ synchrotron X-ray diffraction. <i>Physics and Chemistry of Minerals</i> , 2015, 42, 529-539.	0.8	18
39	Determination of the full elastic tensor of single crystals using shear wave velocities by Brillouin spectroscopy. <i>American Mineralogist</i> , 2015, 100, 2590-2601.	1.9	10
40	P-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.	0.8	9
41	High-pressure elastic behavior of $\text{Ca}_4\text{La}_6(\text{SiO}_4)_6(\text{OH})_2$ a synthetic rare-earth silicate apatite: a powder X-ray diffraction study up to 9.33 GPa. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 85-90.	0.8	1
42	Equation of state of adamite up to 11 GPa: a synchrotron X-ray diffraction study. <i>Physics and Chemistry of Minerals</i> , 2014, 41, 547-554.	0.8	5
43	High Pressure Elastic Behavior of Synthetic $\text{Mg}_3\text{Y}_2(\text{SiO}_4)_3\text{Garnet}$ up to 9 GPa. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-6.	1.8	8
44	Measurements of wave velocity and electrical conductivity of an amphibolite from southwestern margin of the Tarim Basin at pressures to 1.0 GPa and temperatures to 700 °C: comparison with field observations. <i>Geophysical Journal International</i> , 2011, 187, 1393-1404.	2.4	18
45	A simple external resistance heating diamond anvil cell and its application for synchrotron radiation x-ray diffraction. <i>Review of Scientific Instruments</i> , 2010, 81, 053903.	1.3	29
46	Thermal equation of state of natural chromium spinel up to 26.8 GPa and 628 K. <i>Journal of Materials Science</i> , 2008, 43, 5546-5550.	3.7	16