Baosheng Li

List of Publications by Year in descending order

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331670 243625 1,947 53 21 44 h-index citations g-index papers 54 54 54 1240 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	In situ X-ray observations of the coesite-stishovite transition: reversed phase boundary and kinetics. Physics and Chemistry of Minerals, 1996, 23, 1.	0.8	283
2	Elasticity and rheology of iron above 220 GPa and the nature of the Earth's inner core. Nature, 1998, 396, 741-743.	27.8	253
3	Modern techniques in measuring elasticity of Earth materials at high pressure and high temperature using ultrasonic interferometry in conjunction with synchrotron X-radiation in multi-anvil apparatus. Physics of the Earth and Planetary Interiors, 2004, 143-144, 559-574.	1.9	133
4	In situ measurements of sound velocities and densities across the orthopyroxene → high-pressure clinopyroxene transition in MgSiO3 at high pressure. Physics of the Earth and Planetary Interiors, 2004, 147, 27-44.	1.9	106
5	Pressure and temperature dependence of elastic wave velocity of MgSiO3 perovskite and the composition of the lower mantle. Physics of the Earth and Planetary Interiors, 2005, 151, 143-154.	1.9	99
6	Elasticity of stishovite at high pressure. Physics of the Earth and Planetary Interiors, 1996, 96, 113-127.	1.9	89
7	Pressureâ€volumeâ€temperature relations in MgO: An ultrahigh pressureâ€temperature scale for planetary sciences applications. Journal of Geophysical Research, 2008, 113, .	3.3	84
8	Sound velocity measurement using transfer function method. Journal of Physics Condensed Matter, 2002, 14, 11337-11342.	1.8	83
9	Indoor seismology by probing the Earth's interior by using sound velocity measurements at high pressures and temperatures. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9145-9150.	7.1	68
10	Study of the Earth's interior using measurements of sound velocities in minerals by ultrasonic interferometry. Physics of the Earth and Planetary Interiors, 2014, 233, 135-153.	1.9	65
11	Compressional and shear wave velocities of ringwoodite γ-Mg ₂ SiO ₄ to 12 GPa. American Mineralogist, 2004, 88, 1312-1317.	1.9	60
12	Elasticity of MgO to 11 GPa with an independent absolute pressure scale: Implications for pressure calibration. Journal of Geophysical Research, 2006, 111 , $n/a-n/a$.	3.3	50
13	In-situ elasticity measurement for the unquenchable high-pressure clinopyroxene phase: Implication for the upper mantle. Geophysical Research Letters, 2005, 32, .	4.0	48
14	Sound velocities of wadsleyite f²-(Mg _{0.88} Fe _{0.12}) ₂ SiO ₄ to 10 GPa. American Mineralogist, 2000, 85, 292-295.	1.9	44
15	Anomalous elastic properties of coesite at high pressure and implications for the upper mantle X-discontinuity. Earth and Planetary Science Letters, 2015, 412, 42-51.	4.4	39
16	Simultaneous ultrasonic and synchrotron x-ray studies on pressure induced \hat{l} ±- \hat{l} % phase transition in zirconium. Journal of Applied Physics, 2008, 104, .	2.5	36
17	Elasticity of <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mi>ω</mml:mi></mml:math> -phase zirconium. Physical Review B, 2007, 76, .	3.2	34
18	Sound velocity measurements at mantle transition zone conditions of pressure and temperature using ultrasonic interferometry in a multianvil apparatus. Geophysical Monograph Series, 1998, , 41-61.	0.1	32

#	Article	IF	CITATIONS
19	<i>P-V-T</i> equation of state and high-pressure behavior of CaCO ₃ aragonite. American Mineralogist, 2015, 100, 2323-2329.	1.9	27
20	Structural mechanisms of solid solution and cation ordering in augite-jadeite pyroxenes; II, A microscopic perspective. American Mineralogist, 1998, 83, 434-443.	1.9	25
21	Acoustic travel time gauges for <i>ii-situ</i> determination of pressure and temperature in multi-anvil apparatus. Journal of Applied Physics, 2015, 118, .	2.5	25
22	Acoustic velocities and elastic properties of pyrite (FeS2) to 9.6 GPa. Journal of Earth Science (Wuhan,) Tj ETQq	0 0 0 rgBT	Overlock 10
23	Thermoelasticity of Â-FeSi to 8 GPa and 1273 K. American Mineralogist, 2009, 94, 1039-1044.	1.9	17
24	Experimental and theoretical studies on the elasticity of molybdenum to 12 GPa. Journal of Applied Physics, 2009, 106, .	2.5	16
25	Compression and structure of brucite to 31 GPa from synchrotron X-ray diffraction and infrared spectroscopy studies. American Mineralogist, 2013, 98, 33-40.	1.9	16
26	Tracking silica in Earth's upper mantle using new sound velocity data for coesite to 5.8ÂGPa and 1073ÂK. Geophysical Research Letters, 2017, 44, 7757-7765.	4.0	16
27	High-temperature elasticity of magnesioferrite spinel. Physics and Chemistry of Minerals, 2007, 34, 345-350.	0.8	13
28	Constraints from the dehydration of antigorite on high-conductivity anomalies in subduction zones. Scientific Reports, 2017, 7, 16893.	3.3	12
29	Lattice Dynamic Behavior of Orthoferrosilite (FeSiO ₃) toward Phase Transition under Compression. Journal of Physical Chemistry C, 2014, 118, 12410-12419.	3.1	11
30	Combined in situ synchrotron X-ray diffraction and ultrasonic interferometry study of Îμ-FeSi at high pressure. High Pressure Research, 2008, 28, 385-395.	1.2	10
31	Compressional and shear wave velocities of Fe2SiO4 spinel at high pressure and high temperature. High Pressure Research, 2008, 28, 405-413.	1.2	10
32	Elasticity of amorphous zirconium tungstate at high pressure. Applied Physics Letters, 2008, 93, 191904.	3.3	10
33	Elastic wave velocities of peridotite KLBâ€1 at mantle pressures and implications for mantle velocity modeling. Geophysical Research Letters, 2015, 42, 3289-3297.	4.0	10
34	Anomalous Sound Velocities of Antigorite at High Pressure and Implications for Detecting Serpentinization at Mantle Wedges. Geophysical Research Letters, 2019, 46, 5153-5160.	4.0	10
35	Thermal equation of state of CalrO3 post-perovskite. Physics and Chemistry of Minerals, 2011, 38, 407-417.	0.8	9
36	Thermal equation of state of CaGeO3 perovskite. American Mineralogist, 2008, 93, 745-750.	1.9	8

#	Article	lF	Citations
37	In situ ultrasonic velocity measurements across the olivine-spinel transformation in Fe2SiO4. American Mineralogist, 2010, 95, 1000-1005.	1.9	8
38	Synthesis and characterization of polycrystalline KAlSi3O8 hollandite [liebermannite]: Sound velocities vs. pressure to 13â€GPa at room temperature. Comptes Rendus - Geoscience, 2019, 351, 113-120.	1.2	8
39	Enhanced visibility of subduction slabs by the formation of dense hydrous phase A. Geophysical Research Letters, 2021, 48, e2021GL095487.	4.0	8
40	Thermal equation of state of a natural kyanite up to 8.55 GPa and 1273 K. Matter and Radiation at Extremes, 2016, 1, 269-276.	3.9	7
41	Elastic Anomaly and Polyamorphic Transition in (La, Ce)-based Bulk Metallic Glass under Pressure. Scientific Reports, 2017, 7, 724.	3.3	6
42	Ultrasound elasticity of diamond at gigapascal pressures. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
43	Compressibility of mimetite and pyromorphite at high pressure. High Pressure Research, 2013, 33, 27-34.	1.2	5
44	Elasticity and phase transformation at high pressure in coesite from experiments and first-principles calculations. American Mineralogist, 2016, 101, 1190-1196.	1.9	5
45	Microstrain in pyrope-grossular garnet solid solution at high pressure: a case study of Py90Gr10 and Py10Gr90 up to 15ÅGPa. Physics and Chemistry of Minerals, 2017, 44, 377-388.	0.8	5
46	Elastic anomalies across phase transitions of praseodymium to 12 GPa. Journal of Applied Physics, 2018, 124, .	2.5	4
47	Implications of Sound Velocities of Natural Topaz on the Seismic Lâ€Discontinuity. Geophysical Research Letters, 2022, 49, .	4.0	4
48	High-Pressure Research at the National Synchrotron Light Source. Synchrotron Radiation News, 2010, 23, 24-30.	0.8	3
49	The elasticity of natural hypersthene and the effect of Fe and Al substitution. High Pressure Research, 2016, 36, 63-72.	1.2	2
50	Microscopic strain in a grossular-pyrope solution anti-correlates with excess volume through local Mg-Ca cation arrangement, more strongly at high Ca/Mg ratio. American Mineralogist, 2017, 102, 2307-2316.	1.9	2
51	Insights into the Hydrothermal Metastability of Stishovite and Coesite. ACS Omega, 2018, 3, 14225-14228.	3.5	2
52	High-pressure elastic behavior of Ca4La6(SiO4)6(OH)2 a synthetic rare-earth silicate apatite: a powder X-ray diffraction study up to 9.33ÂGPa. Physics and Chemistry of Minerals, 2014, 41, 85-90.	0.8	1
53	Sound Velocities of Iron-Nickel (Fe90Ni10) Alloy up to 8 GPa and 773 K: The Effect of Nickel on the Elastic Properties of bcc-Iron at High P-T. American Mineralogist, 2021, , .	1.9	1