Baosheng Li

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Implications of Sound Velocities of Natural Topaz on the Seismic Lâ€Discontinuity. Geophysical Research Letters, 2022, 49, .	4.0	4
2	Enhanced visibility of subduction slabs by the formation of dense hydrous phase A. Geophysical Research Letters, 2021, 48, e2021GL095487.	4.0	8
3	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
4	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
5	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
6	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
7	Insights into the Hydrothermal Metastability of Stishovite and Coesite. ACS Omega, 2018, 3, 14225-14228.	3.5	2
8	Elastic anomalies across phase transitions of praseodymium to 12â€‰GPa. Journal of Applied Physics, 2018, 124, .	2.5	4
9	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
10	Elastic Anomaly and Polyamorphic Transition in (La, Ce)-based Bulk Metallic Glass under Pressure. Scientific Reports, 2017, 7, 724.	3.3	6
11	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
12	Constraints from the dehydration of antigorite on high-conductivity anomalies in subduction zones. Scientific Reports, 2017, 7, 16893.	3.3	12
13	Microstrain in pyrope-grossular garnet solid solution at high pressure: a case study of Py90Gr10 and Py10Gr90 up to 15ÂGPa. Physics and Chemistry of Minerals, 2017, 44, 377-388.	0.8	5
14	Elasticity and phase transformation at high pressure in coesite from experiments and first-principles calculations. American Mineralogist, 2016, 101, 1190-1196.	1.9	5
15	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
16	The elasticity of natural hypersthene and the effect of Fe and Al substitution. High Pressure Research, 2016, 36, 63-72.	1.2	2
17	Acoustic travel time gauges for in-situ determination of pressure and temperature in multi-anvil apparatus. Journal of Applied Physics, 2015, 118, .	2.5	25
18	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

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19	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
20	P-V-Tequation of state and high-pressure behavior of CaCO₃aragonite. American Mineralogist, 2015, 100, 2323-2329.	1.9	27
21	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
22	Lattice Dynamic Behavior of Orthoferrosilite (FeSiO₃) toward Phase Transition under Compression. Journal of Physical Chemistry C, 2014, 118, 12410-12419.	3.1	11
23	Study of the Earthâ€™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
24	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
25	Compressibility of mimetite and pyromorphite at high pressure. High Pressure Research, 2013, 33, 27-34.	1.2	5
26	Thermal equation of state of CaIrO3 post-perovskite. Physics and Chemistry of Minerals, 2011, 38, 407-417.	0.8	9
27	Acoustic velocities and elastic properties of pyrite (FeS2) to 9.6 GPa. Journal of Earth Science (Wuhan,) Tj ETQq1 1 0.784314 rgBT /Over	3.2	18
28	In situ ultrasonic velocity measurements across the olivine-spinel transformation in Fe2SiO4. American Mineralogist, 2010, 95, 1000-1005.	1.9	8
29	High-Pressure Research at the National Synchrotron Light Source. Synchrotron Radiation News, 2010, 23, 24-30.	0.8	3
30	Experimental and theoretical studies on the elasticity of molybdenum to 12 GPa. Journal of Applied Physics, 2009, 106, .	2.5	16
31	Thermoelasticity of Â-FeSi to 8 GPa and 1273 K. American Mineralogist, 2009, 94, 1039-1044.	1.9	17
32	Pressureâ€“volumeâ€“temperature relations in MgO: An ultrahigh pressureâ€“temperature scale for planetary sciences applications. Journal of Geophysical Research, 2008, 113, .	3.3	84
33	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
34	Thermal equation of state of CaGeO3 perovskite. American Mineralogist, 2008, 93, 745-750.	1.9	8
35	Compressional and shear wave velocities of Fe2SiO4 spinel at high pressure and high temperature. High Pressure Research, 2008, 28, 405-413.	1.2	10
36	Simultaneous ultrasonic and synchrotron x-ray studies on pressure induced Î±-Ï‰ phase transition in zirconium. Journal of Applied Physics, 2008, 104, .	2.5	36

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37	Elasticity of amorphous zirconium tungstate at high pressure. Applied Physics Letters, 2008, 93, 191904.	3.3	10
38	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
39	Elasticity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Ï‰</mml:mi></mml:math>-phase zirconium. Physical Review B, 2007, 76, .	3.2	34
40	High-temperature elasticity of magnesioferrite spinel. Physics and Chemistry of Minerals, 2007, 34, 345-350.	0.8	13
41	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
42	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
43	In-situ elasticity measurement for the unquenchable high-pressure clinopyroxene phase: Implication for the upper mantle. Geophysical Research Letters, 2005, 32, .	4.0	48
44	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
45	In situ measurements of sound velocities and densities across the orthopyroxene â†' high-pressure clinopyroxene transition in MgSiO3 at high pressure. Physics of the Earth and Planetary Interiors, 2004, 147, 27-44.	1.9	106
46	Compressional and shear wave velocities of ringwoodite Î³-Mg₂SiO₄to 12 GPa. American Mineralogist, 2004, 88, 1312-1317.	1.9	60
47	Sound velocity measurement using transfer function method. Journal of Physics Condensed Matter, 2002, 14, 11337-11342.	1.8	83
48	Sound velocities of wadsleyite Î²-(Mg_{0.88}Fe_{0.12})₂SiO₄to 10 GPa. American Mineralogist, 2000, 85, 292-295.	1.9	44
49	Elasticity and rheology of iron above 220â€‰GPa and the nature of the Earth's inner core. Nature, 1998, 396, 741-743.	27.8	253
50	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
51	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
52	Elasticity of stishovite at high pressure. Physics of the Earth and Planetary Interiors, 1996, 96, 113-127.	1.9	89
53	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