

# Wenli Bi

## List of Publications by Year in descending order

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65  
papers

2,044  
citations

393982

19  
h-index

243296

44  
g-index

68  
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68  
docs citations

68  
times ranked

3401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, redox and isotopic behaviors of iron in geological silicate glasses: A NRIXS study of Lamb-Mössbauer factors and force constants. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 321, 184-205.	1.6	11
2	Drastic enhancement of magnetic critical temperature and amorphization in topological magnet EuSn <sub>2</sub> P <sub>2</sub> under pressure. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	9
3	Iron force constants of bridgmanite at high pressure: Implications for iron isotope fractionation in the deep mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 215-231.	1.6	5
4	metallic phase and unconventional superconductivity in GaTa <sub>4</sub> Sn. <i>Physical Review B</i> , 2021, 103, .	1.1	4
5	Microscopic phase diagram of Eu(Fe <sub>1-x</sub> Ni <sub>x</sub> )As <sub>2</sub> ( x = 0,0.04) under pressure. <i>Physical Review B</i> , 2021, 103, .	1.1	5
6	Iron, magnesium, and titanium isotopic fractionations between garnet, ilmenite, fayalite, biotite, and tourmaline: Results from NRIXS, ab initio, and study of mineral separates from the Moosilauke metapelite. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 302, 18-45.	1.6	34
7	<sup>57</sup> Fe Mössbauer isomer shift of pure iron and iron oxides at high pressure—An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2021, 154, 214104.	1.2	4
8	Complex pressure-temperature structural phase diagram of the honeycomb iridate Cu <sub>2</sub> IrO <sub>3</sub> . <i>Physical Review B</i> , 2021, 104, .	1.1	12
9	Elastic and magnetic properties of Fe <sub>3</sub> P up to core pressures: Phosphorus in the Earth's core. <i>Earth and Planetary Science Letters</i> , 2020, 531, 115974.	1.8	14
10	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. <i>Nature Catalysis</i> , 2020, 3, 985-992.	16.1	390
11	Frontispiz: Untersuchung von Schwingungen in Bezug auf Spin-Phonon-Kopplung in Einzelmolekülmagneten mittels nuklearer inelastischer Streuung am <sup>161</sup> Dy-Kern. <i>Angewandte Chemie</i> , 2020, 132, .	1.6	0
12	Pressure-Induced Collapse of Magnetic Order in Jarosite. <i>Physical Review Letters</i> , 2020, 125, 077202.	2.9	3
13	A new hydrous iron oxide phase stable at mid-mantle pressures. <i>Earth and Planetary Science Letters</i> , 2020, 550, 116551.	1.8	5
14	Frontispiece: Exploring the Vibrational Side of Spin-Phonon Coupling in Single-Molecule Magnets via <sup>161</sup> Dy Nuclear Resonance Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, .	7.2	0
15	Synthesis, Elasticity, and Spin State of an Intermediate MgSiO <sub>3</sub> –FeAlO <sub>3</sub> Bridgmanite: Implications for Iron in Earth's Lower Mantle. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019964.	1.4	6
16	Exploring the Vibrational Side of Spin-Phonon Coupling in Single-Molecule Magnets via <sup>161</sup> Dy Nuclear Resonance Vibrational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8818-8822.	7.2	12
17	Untersuchung von Schwingungen in Bezug auf Spin-Phonon-Kopplung in Einzelmolekülmagneten mittels nuklearer inelastischer Streuung am <sup>161</sup> Dy-Kern. <i>Angewandte Chemie</i> , 2020, 132, 8902-8907.	1.6	4
18	Effects of composition and pressure on electronic states of iron in bridgmanite. <i>American Mineralogist</i> , 2020, 105, 1030-1039.	0.9	7

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19	Magnetic phase diagram of $\text{FeH}$ . Physical Review B, 2020, 101, .		
20	Pressure-induced suppression of ferromagnetism in CePd <sub>2</sub> P <sub>2</sub> . Physical Review B, 2020, 102, .	1.1	2
21	Distinct pressure evolution of coupled nematic and magnetic orders in FeSe. Physical Review B, 2019, 100, .	1.1	15
22	Bandwidth controlled insulator-metal transition in $\text{BaFe}_2\text{S}_3$ : A Mössbauer study under pressure. Physical Review B, 2019, 99, .	1.1	18
23	161 Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions (Angew. Chem. 11/2019). Angewandte Chemie, 2019, 131, 3690-3690.	1.6	0
24	161 Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. Angewandte Chemie, 2019, 131, 3482-3487.	1.6	4
25	Influence of ligand substitution on magnetic hyperfine interaction in Dy <sub>6</sub> -based single-molecule magnets/toroids. Hyperfine Interactions, 2019, 240, 1.	0.2	1
26	Iron isotopic fractionation in mineral phases from Earth's lower mantle: Did terrestrial magma ocean crystallization fractionate iron isotopes?. Earth and Planetary Science Letters, 2019, 506, 113-122.	1.8	17
27	Altered chemistry of oxygen and iron under deep Earth conditions. Nature Communications, 2019, 10, 153.	5.8	35
28	<sup>161</sup> Dy Time-Domain Synchrotron Mössbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions. Angewandte Chemie - International Edition, 2019, 58, 3444-3449.	7.2	18
29	High-Pressure Geophysical Properties of <i>Fcc</i> Phase $\text{Fe}_X$ . Geochemistry, Geophysics, Geosystems, 2018, 19, 305-314.	1.0	37
30	Aqueous Superparamagnetic Magnetite Dispersions with Ultrahigh Initial Magnetic Susceptibilities. Langmuir, 2018, 34, 622-629.	1.6	6
31	Valence and spin states of iron are invisible in Earth's lower mantle. Nature Communications, 2018, 9, 1284.	5.8	35
32	Suppression of the magnetic order in CeFeAsO: Nonequivalence of hydrostatic and in-plane chemical pressure. Physical Review B, 2018, 98, .	1.1	4
33	Microscopic phase diagram of LaFeAsO single crystals under pressure. Physical Review B, 2018, 98, .	1.1	2
34	Experimental constraints on the sound velocities of cementite Fe <sub>3</sub> C to core pressures. Earth and Planetary Science Letters, 2018, 494, 164-171.	1.8	29
35	Impact of Pressure on Magnetic Order in Jarosite. Journal of the American Chemical Society, 2018, 140, 12001-12009.	6.6	9
36	Superconducting and magnetic phase diagram of $\text{RbEuFe}_4$ and $\text{CsEuFe}_4$ at high pressure. Physical Review B, 2018, 98, .	1.1	31

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37	Pressure-Induced Superconductivity in Elemental Ytterbium Metal. <i>Physical Review Letters</i> , 2018, 121, 037004.	2.9	22
38	High-pressure investigations on the semi-Heusler compound CuMnSb. <i>Physical Review B</i> , 2018, 98, .	1.1	4
39	<i>SciPhon</i> : a data analysis software for nuclear resonant inelastic X-ray scattering with applications to Fe, Kr, Sn, Eu and Dy. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1581-1599.	1.0	29
40	Iron isotopic fractionation between silicate mantle and metallic core at high pressure. <i>Nature Communications</i> , 2017, 8, 14377.	5.8	34
41	Evidence for strong enhancement of the magnetic ordering temperature of trivalent Nd metal under extreme pressure. <i>Physical Review B</i> , 2017, 95, .	1.1	9
42	Resonant x-ray scattering reveals possible disappearance of magnetic order under hydrostatic pressure in the Kitaev candidate $\text{FeSb}_3$ . <i>Physical Review B</i> , 2017, 96, .	1.1	35
43	A compact membrane-driven diamond anvil cell and cryostat system for nuclear resonant scattering at high pressure and low temperature. <i>Review of Scientific Instruments</i> , 2017, 88, 125109.	0.6	16
44	Element-resolved magnetism across the temperature- and pressure-induced spin reorientation in MnBi. <i>Physical Review B</i> , 2016, 94, .	1.1	6
45	High-pressure synchrotron Mössbauer and X-ray diffraction studies: Exploring the structure-related valence fluctuation in EuNi <sub>2</sub> P <sub>2</sub> . <i>Physica B: Condensed Matter</i> , 2016, 501, 101-105.	1.3	4
46	Phonon density of states of single-crystal SrF <sub>2</sub> . <i>Physical Review B</i> , 2016, 94, .	1.1	7
47	Magnetism of europium under extreme pressures. <i>Physical Review B</i> , 2016, 93, .	1.1	17
48	Mechanisms for pressure-induced crystal-crystal transition, amorphization, and devitrification of SnI <sub>4</sub> . <i>Journal of Chemical Physics</i> , 2015, 143, 164508.	1.2	13
49	Nuclear resonant inelastic X-ray scattering at high pressure and low temperature. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 760-765.	1.0	14
50	Spinel-olivine-pyroxene equilibrium iron isotopic fractionation and applications to natural peridotites. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 184-199.	1.6	63
51	Operando Analysis of NiFe and Fe Oxyhydroxide Electrocatalysts for Water Oxidation: Detection of Fe <sup>4+</sup> by Mössbauer Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 15090-15093.	6.6	684
52	Synthesis and electrochemical properties of novel LiFeTiO <sub>4</sub> and Li <sub>2</sub> FeTiO <sub>4</sub> polymorphs with the CaFe <sub>2</sub> O <sub>4</sub> -type structures. <i>Journal of Power Sources</i> , 2015, 273, 396-403.	4.0	10
53	Hidden carbon in Earth's inner core revealed by shear softening in dense Fe <sub>7</sub> C <sub>3</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17755-17758.	3.3	96
54	Multistep synthesis of the SrFeO <sub>2</sub> F perovskite oxyfluoride via the SrFeO <sub>2</sub> infinite-layer intermediate. <i>Journal of Fluorine Chemistry</i> , 2014, 159, 8-14.	0.9	30

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55	Ï€-Conjugation in Gd <sub>13</sub> Fe <sub>10</sub> C <sub>13</sub> and Its Oxycarbide: Unexpected Connections between Complex Carbides and Simple Organic Molecules. Journal of the American Chemical Society, 2014, 136, 12073-12084.	6.6	9
56	Experimental determination of redox cooperativity and electronic structures in catalytically active Cuâ€Fe and Znâ€Fe heterobimetallic complexes. Dalton Transactions, 2014, 43, 13661.	1.6	41
57	Sound velocities of bcc-Fe and Fe <sub>0.85</sub> Si <sub>0.15</sub> alloy at high pressure and temperature. Physics of the Earth and Planetary Interiors, 2014, 233, 24-32.	0.7	21
58	Interplay between lattice dynamics and superconductivity in Nb <sub>3</sub> Sn thin films. Physical Review B, 2013, 88, .	1.1	7
59	Publisherâ€™s Note: Interplay between lattice dynamics and superconductivity in Nb <sub>3</sub> Sn thin films [Phys. Rev. B88, 045437 (2013)]. Physical Review B, 2013, 88, .	1.1	2
60	Synchrotron x-ray spectroscopy studies of valence and magnetic state in europium metal to extreme pressures. Physical Review B, 2012, 85, .	1.1	20
61	Pressure-induced structural transitions in europium to 92 GPa. Physical Review B, 2011, 83, .	1.1	33
62	Dependence of magnetic ordering temperature of doped and undoped EuFe <sub>2</sub> As <sub>2</sub> on hydrostatic pressure to 0.8GPa. Physica C: Superconductivity and Its Applications, 2011, 471, 476-479.	0.6	2
63	Pressure-induced superconductivity in europium metal. Journal of Physics: Conference Series, 2010, 215, 012034.	0.3	10
64	Anomalous He-gas high-pressure studies on superconducting LaO <sub>1-x</sub> FeAs. New Journal of Physics, 2010, 12, 023005.	1.2	5
65	Carbon isotopic signatures of super-deep diamonds mediated by iron redox chemistry. Geochemical Perspectives Letters, 0, , 51-55.	1.0	8