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 all docs	68 docs citations	68 times ranked	3401 citing authors

#	Article	IF	Citations
1	Operando Analysis of NiFe and Fe Oxyhydroxide Electrocatalysts for Water Oxidation: Detection of Fe⁴⁺ by MÃ¶ssbauer Spectroscopy. Journal of the American Chemical Society, 2015, 137, 15090-15093.	6.6	684
2	High-valence metals improve oxygen evolution reaction performance by modulating 3d metal oxidation cycle energetics. Nature Catalysis, 2020, 3, 985-992.	16.1	390
3	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.	3.3	96
4	Spinelâ€“olivineâ€“pyroxene equilibrium iron isotopic fractionation and applications to natural peridotites. Geochimica Et Cosmochimica Acta, 2015, 169, 184-199.	1.6	63
5	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
6	Highâ€Pressure Geophysical Properties of Fcc Phase FeH_X. Geochemistry, Geophysics, Geosystems, 2018, 19, 305-314.	1.0	37
7	Resonant x-ray scattering reveals possible disappearance of magnetic order under hydrostatic pressure in the Kitaev candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î³</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mi>Li</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Rh</mml:mi><mml:mn>1</mml:mn></mml:msub><mml:msub><mml:mi>O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	35
8	Valence and spin states of iron are invisible in Earthâ€™s lower mantle. Nature Communications, 2018, 9, 1284.	5.8	35
9	Altered chemistry of oxygen and iron under deep Earth conditions. Nature Communications, 2019, 10, 153.	5.8	35
10	Iron isotopic fractionation between silicate mantle and metallic core at high pressure. Nature Communications, 2017, 8, 14377.	5.8	34
11	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. Geochimica Et Cosmochimica Acta, 2021, 302, 18-45.	1.6	34
12	Pressure-induced structural transitions in europium to 92 GPa. Physical Review B, 2011, 83, .	1.1	33
13	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></mml:msub></mml:mrow></mml:math> 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></mml:msub></mml:mrow></mml:math> at high pressure. Physical Review B, 2018, 98, .	1.1	31
14	Multistep synthesis of the SrFeO2F perovskite oxyfluoride via the SrFeO2 infinite-layer intermediate. Journal of Fluorine Chemistry, 2014, 159, 8-14.	0.9	30
15	Experimental constraints on the sound velocities of cementite Fe3C to core pressures. Earth and Planetary Science Letters, 2018, 494, 164-171.	1.8	29
16	SciPhon: a data analysis software for nuclear resonant inelastic X-ray scattering with applications to Fe, Kr, Sn, Eu and Dy. Journal of Synchrotron Radiation, 2018, 25, 1581-1599.	1.0	29
17	Pressure-Induced Superconductivity in Elemental Ytterbium Metal. Physical Review Letters, 2018, 121, 037004.	2.9	22
18	Sound velocities of bcc-Fe and Fe0.85Si0.15 alloy at high pressure and temperature. Physics of the Earth and Planetary Interiors, 2014, 233, 24-32.	0.7	21

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19	Synchrotron x-ray spectroscopy studies of valence and magnetic state in europium metal to extreme pressures. Physical Review B, 2012, 85, .	1.1	20
20	Bandwidth controlled insulator-metal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mm mathvariant="normal">S</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> : A MÃ¶ssbauer study under pressure. Physical Review B, 2019, 99, .	1.1	18
21	¹⁶¹Dy Timeâ€Domain Synchrotron MÃ¶ssbauer Spectroscopy for Investigating Singleâ€Molecule Magnets Incorporating Dy Ions. Angewandte Chemie - International Edition, 2019, 58, 3444-3449.	7.2	18
22	Magnetism of europium under extreme pressures. Physical Review B, 2016, 93, .	1.1	17
23	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
24	A compact membrane-driven diamond anvil cell and cryostat system for nuclear resonant scattering at high pressure and low temperature. Review of Scientific Instruments, 2017, 88, 125109.	0.6	16
25	Distinct pressure evolution of coupled nematic and magnetic orders in FeSe. Physical Review B, 2019, 100, .	1.1	15
26	Nuclear resonant inelastic X-ray scattering at high pressure and low temperature. Journal of Synchrotron Radiation, 2015, 22, 760-765.	1.0	14
27	Elastic and magnetic properties of Fe3P up to core pressures: Phosphorus in the Earth's core. Earth and Planetary Science Letters, 2020, 531, 115974.	1.8	14
28	Mechanisms for pressure-induced crystal-crystal transition, amorphization, and devitrification of SnI4. Journal of Chemical Physics, 2015, 143, 164508.	1.2	13
29	Exploring the Vibrational Side of Spinâ€Phonon Coupling in Singleâ€Molecule Magnets via ¹⁶¹Dy Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, 8818-8822.	7.2	12
30	Complex pressure-temperature structural phase diagram of the honeycomb iridate Cu2IrO3. Physical Review B, 2021, 104, .	1.1	12
31	Structural, redox and isotopic behaviors of iron in geological silicate glasses: A NRIXS study of Lamb-MÃ¶ssbauer factors and force constants. Geochimica Et Cosmochimica Acta, 2022, 321, 184-205.	1.6	11
32	Pressure-induced superconductivity in europium metal. Journal of Physics: Conference Series, 2010, 215, 012034.	0.3	10
33	Synthesis and electrochemical properties of novel LiFeTiO4 and Li2FeTiO4 polymorphs with the CaFe2O4-type structures. Journal of Power Sources, 2015, 273, 396-403.	4.0	10
34	Ï€-Conjugation in Gd₁₃Fe₁₀C₁₃ 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
35	Evidence for strong enhancement of the magnetic ordering temperature of trivalent Nd metal under extreme pressure. Physical Review B, 2017, 95, .	1.1	9
36	Impact of Pressure on Magnetic Order in Jarosite. Journal of the American Chemical Society, 2018, 140, 12001-12009.	6.6	9

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37	Drastic enhancement of magnetic critical temperature and amorphization in topological magnet EuSn2P2 under pressure. Npj Quantum Materials, 2022, 7, .	1.8	9
38	Carbon isotopic signatures of super-deep diamonds mediated by iron redox chemistry. Geochemical Perspectives Letters, 0, , 51-55.	1.0	8
39	Interplay between lattice dynamics and superconductivity in Nb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Sn thin films. Physical Review B, 2013, 88, .	1.1	7
40	Phonon density of states of single-crystal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrF</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">A</mml:mi><mml:msub><mml:mi mathvariant="normal">s</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>across the collapsed phase transition at high pressure. Physical Review B, 2016, 94, .	1.1	7
41	Effects of composition and pressure on electronic states of iron in bridgmanite. American Mineralogist, 2020, 105, 1030-1039.	0.9	7
42	Element-resolved magnetism across the temperature- and pressure-induced spin reorientation in MnBi. Physical Review B, 2016, 94, .	1.1	6
43	Aqueous Superparamagnetic Magnetite Dispersions with Ultrahigh Initial Magnetic Susceptibilities. Langmuir, 2018, 34, 622-629.	1.6	6
44	Synthesis, Elasticity, and Spin State of an Intermediate MgSiO 3 â€FeAlO 3 Bridgmanite: Implications for Iron in Earth's Lower Mantle. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019964.	1.4	6
45	Anomalous He-gas high-pressure studies on superconducting LaO1â^'xFxFeAs. New Journal of Physics, 2010, 12, 023005.	1.2	5
46	A new hydrous iron oxide phase stable at mid-mantle pressures. Earth and Planetary Science Letters, 2020, 550, 116551.	1.8	5
47	Magnetic phase diagram of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>É</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>-FeH. Physical Review B, 2020, 101, .	1.1	5
48	Iron force constants of bridgmanite at high pressure: Implications for iron isotope fractionation in the deep mantle. Geochimica Et Cosmochimica Acta, 2021, 294, 215-231.	1.6	5
49	Microscopic phase diagram of Eu(Fe1â^'xNix)As2 (x = 0,0.04) under pressure. Physical Review B, 2021, 103, .	1.1	5
50	High-pressure synchrotron MÃ¶ssbauer and X-ray diffraction studies: Exploring the structure-related valence fluctuation in EuNi2P2. Physica B: Condensed Matter, 2016, 501, 101-105.	1.3	4
51	Suppression of the magnetic order in CeFeAsO: Nonequivalence of hydrostatic and in-plane chemical pressure. Physical Review B, 2018, 98, .	1.1	4
52	High-pressure investigations on the semi-Heusler compound CuMnSb. Physical Review B, 2018, 98, .	1.1	4
53	161 Dy Timeâ€Domain Synchrotron MÃ¶ssbauer Spectroscopy for Investigating Singleâ€Molecule Magnets Incorporating Dy Ions. Angewandte Chemie, 2019, 131, 3482-3487.	1.6	4
54	Untersuchung von Schwingungen in Bezug auf Spinâ€Phononâ€Kopplung in EinzelmolekÃ¼lmagneten mittels nuklearer inelastischer Streuung am 161 Dyâ€Kern. Angewandte Chemie, 2020, 132, 8902-8907.	1.6	4

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55	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>J</mml:mi><mml:mi>eff</mml:mi></mml:ms metallic phase and unconventional superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaTa</mml:mi><mml:mn>4</mml:mn></ Physical Review B, 2021, 103, .	1.1	4
56	57Fe MÃ¶ssbauer isomer shift of pure iron and iron oxides at high pressureâ€"An experimental and theoretical study. Journal of Chemical Physics, 2021, 154, 214104.	1.2	4
57	Pressure-Induced Collapse of Magnetic Order in Jarosite. Physical Review Letters, 2020, 125, 077202.	2.9	3
58	Dependence of magnetic ordering temperature of doped and undoped EuFe2As2 on hydrostatic pressure to 0.8GPa. Physica C: Superconductivity and Its Applications, 2011, 471, 476-479.	0.6	2
59	Publisherâ€™s Note: Interplay between lattice dynamics and superconductivity in Nb3Sn thin films [Phys. Rev. B88, 045437 (2013)]. Physical Review B, 2013, 88, .	1.1	2
60	Microscopic phase diagram of LaFeAsO single crystals under pressure. Physical Review B, 2018, 98, .	1.1	2
61	Pressure-induced suppression of ferromagnetism in CePd2P2. Physical Review B, 2020, 102, .	1.1	2
62	Influence of ligand substitution on magnetic hyperfine interaction in Dy6-based single-molecule magnets/toroics. Hyperfine Interactions, 2019, 240, 1.	0.2	1
63	RÃ¼cktitelbild: 161 Dy Time-Domain Synchrotron MÃ¶ssbauer Spectroscopy for Investigating Single-Molecule Magnets Incorporating Dy Ions (Angew. Chem. 11/2019). Angewandte Chemie, 2019, 131, 3690-3690.	1.6	0
64	Frontispiz: Untersuchung von Schwingungen in Bezug auf Spinâ€Phononâ€Kopplung in EinzelmolekÃ¼lmagneten mittels nuklearer inelastischer Streuung am ¹⁶¹Dyâ€Kern. Angewandte Chemie, 2020, 132, .	1.6	0
65	Frontispiece: Exploring the Vibrational Side of Spinâ€Phonon Coupling in Singleâ€Molecule Magnets via ¹⁶¹Dy Nuclear Resonance Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0