Li Lei

List of Publications by Year
in descending order

63	1,150	430874 18	414414 32
papers	citations	h-index	g-index

64	64	64	1206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Is Rhenium Diboride a Superhard Material?. Advanced Materials, 2008, 20, 4780-4783.	21.0	175
2	A comparative study of ZnAl2O4 nanoparticles synthesized from different aluminum salts for use as fluorescence materials. Scientific Reports, 2015, 5, 12849.	3.3	124
3	Insight into the optical, color, photoluminescence properties, and photocatalytic activity of the Nâ€“O and Câ€“O functional groups decorating spinel type magnesium aluminate. CrystEngComm, 2019, 21, 263-277.	2.6	74
4	Phase transitions of LiAlO2 at high pressure and high temperature. Journal of Solid State Chemistry, 2008, 181, 1810-1815.	2.9	52
5	Synthetic Route to Metal Nitrides: High-Pressure Solid-State Metathesis Reaction. Inorganic Chemistry, 2013, 52, 13356-13362.	4.0	44
6	Pressure calibration for the cubic press by differential thermal analysis and the high-pressure fusion curve of aluminum. High Pressure Research, 2009, 29, 806-814.	1.2	40
7	A new route for the preparation of CoAl2O4 nanoblue pigments with high uniformity and its optical properties. Journal of Sol-Gel Science and Technology, 2018, 86, 206-216.	2.4	40
8	Synthesis of GaN Crystals Through Solid-State Metathesis Reaction Under High Pressure. Crystal Growth and Design, 2009, 9, 1264-1266.	3.0	34
9	Synthesis and Characterization of BaAl₂O₄ Catalyst and its Photocatalytic Activity Towards Degradation of Methylene Blue Dye. Zeitschrift Fur Physikalische Chemie, 2019, 233, 1161-1181.	2.8	34
10	Li ion diffusion in LiAlO 2 investigated by Raman spectroscopy. Solid State Sciences, 2014, 37, 103-107.	3.2	29
11	Perovskiteâ€Type SrVO₃ as Highâ€Performance Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2022, 34, e2107262.	21.0	29
12	High-pressure and high-temperature sintering of nanostructured bulk NiAl materials. Journal of Materials Research, 2009, 24, 2089-2096.	2.6	25
13	Superstrong micro-grained polycrystalline diamond compact through work hardening under high pressure. Applied Physics Letters, 2018, 112, .	3.3	25
14	Recent advance in high-pressure solid-state metathesis reactions. Matter and Radiation at Extremes, 2018, 3, 95-103.	3.9	23
15	GaN crystals prepared through solid-state metathesis reaction from NaGaO2 and BN under high pressure and high temperature. Journal of Alloys and Compounds, 2011, 509, L124-L127.	5.5	22
16	Synthesis of Visible-Light-Driven SrAl2O4-Based Photocatalysts Using Surface Modification and Ion Doping. Russian Journal of Physical Chemistry A, 2020, 94, 1234-1247.	0.6	22
17	Unusual Compression Behavior of Nanocrystalline CeO2. Scientific Reports, 2014, 4, 4441.	3.3	21
18	High pressure synthesis and properties studies on spherical bulk Ïµ-Fe₃N. High Pressure Research, 2014, 34, 317-326.	1.2	19

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19	Preparation of superhard cubic boron nitride sintered from commercially available submicron powders. Journal of Applied Physics, 2017, 121, .	2.5	18
20	Evidence for a New Extended Solid of Nitrogen*. Chinese Physics Letters, 2020, 37, 068101.	3.3	18
21	Rapid synthesis of thermoelectric SnSe thin films by MPCVD. RSC Advances, 2020, 10, 11990-11993.	3.6	17
22	Cation orderâ€“disorder phase transitions in LiGaO2: Observation of the pathways of ternary wurtzite under high pressure. Journal of Applied Physics, 2010, 108, .	2.5	16
23	Disorder-activated Raman spectra of cubic rocksalt-type Li(1â^'x)/2Ga(1â^'x)/2MxO (Mâ€‰=â€‰Mg, Zn) alloys. Journal of Applied Physics, 2012, 112, .	2.5	16
24	High-pressure Raman spectroscopy study of LiGaO2. Solid State Communications, 2013, 164, 6-10.	1.9	15
25	Abnormal physical behaviors of hafnium diboride under high pressure. Applied Physics Letters, 2019, 115, .	3.3	15
26	High-pressure x-ray diffraction study of YBO3/Eu3+, GdBO3, and EuBO3: Pressure-induced amorphization in GdBO3. Journal of Applied Physics, 2014, 115, .	2.5	14
27	Neutron diffraction study of the structural and magnetic properties of Îµ-Fe3N1.098 and Îµ-Fe2.322Co0.678N0.888. Journal of Alloys and Compounds, 2018, 752, 99-105.	5.5	13
28	High-pressure Raman spectroscopy of Re 3 N crystals. Solid State Communications, 2015, 201, 107-110.	1.9	12
29	Pressure induced solid-solid reconstructive phase transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LiGa</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> dominated by elastic strain. Physical Review B, 2018, 97, .	3.2	10
30	Pressure-induced disordering of site occupation in ironâ€“nickel nitrides. Matter and Radiation at Extremes, 2021, 6, .	3.9	10
31	Strengthening effects of interstitial nitrogen on rhenium. Journal of Applied Physics, 2018, 123, .	2.5	9
32	Raman study of pressure-induced dissociative transitions in nitrogen. Solid State Communications, 2019, 298, 113645.	1.9	9
33	Micro-stress dominant displacive reconstructive transition in lithium aluminate. Applied Physics Letters, 2016, 109, .	3.3	8
34	Enhancing the pressure limitation in large-volume Bridgman-anvil cell used for in situ neutron diffraction. High Pressure Research, 2019, 39, 655-665.	1.2	8
35	Melting temperature of diamond and cubic boron nitride at 15 gigapascals. Physical Review Research, 2019, 1, .	3.6	8
36	Pressure transmitting medium-dependent structure stability of nanoanatase TiO₂under high pressure. High Pressure Research, 2014, 34, 259-265.	1.2	7

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37	Reciprocating Compression of ZnO Probed by X-ray Diffraction: The Size Effect on Structural Properties under High Pressure. Inorganic Chemistry, 2018, 57, 5380-5388.	4.0	7
38	Neutron powder diffraction and high-pressure synchrotron x-ray diffraction study of tantalum nitrides. Chinese Physics B, 2018, 27, 026201.	1.4	6
39	Temperature-dependent c-axis lattice-spacing reduction and novel structural recrystallization in carbon nano-onions filled with Fe3C/Î±-Fe nanocrystals. Nano Express, 2020, 1, 020016.	2.4	6
40	High-pressure synthesis and in-situ high pressure x-ray diffraction study of cadmium tetraphosphide. Journal of Applied Physics, 2013, 113, 053507.	2.5	5
41	Effects of substitution, pressure, and temperature on the phonon mode in layered-rocksalt-type Li(1â^'x)/2Ga(1â^'x)/2ZnxO (xâ€‰=â€‰0.036â€“0.515) alloys. Journal of Applied Physics, 2015, 118, 185903.	2.5	5
42	Anomalous compression behavior of â^¼12â€‰nm nanocrystalline TiO2. Journal of Applied Physics, 2017, 121, .	2.5	5
43	High-Pressure Synthesis of CeOCl Crystals and Investigation of Their Photoluminescence and Compressibility Properties. Crystal Growth and Design, 2018, 18, 1843-1847.	3.0	5
44	Highâ€pressure Raman spectroscopy of CeOCl: Observation of the isostructural phase transition. Journal of Raman Spectroscopy, 2019, 50, 1962-1968.	2.5	5
45	Ferromagnetic hysteresis and structural recrystallization in turbostratic graphite. Materials Research Express, 2019, 6, 105612.	1.6	5
46	Synthesis and characterization of spherical-like bulk Îµ-Fe3â^'Co N (xÂ=Â0.0, 0.25, 1.95). Materials Chemistry and Physics, 2017, 197, 94-99.	4.0	4
47	Pressure-Induced Structural Phase Transformation and Yield Strength of AlN. Journal of Physical Chemistry C, 2019, 123, 28437-28442.	3.1	4
48	Raman spectroscopy and phase stability of Î»-N2. Solid State Communications, 2020, 310, 113843.	1.9	4
49	Raman spectroscopy and Xâ€ray diffraction of pressureâ€induced reversible structure change in K 2 OsO 2 (OH) 4. Journal of Raman Spectroscopy, 2020, 51, 1240-1247.	2.5	4
50	The effect of interstitial-site nitrogen on structural, elastic, and magnetic properties of face-center cubic Co. Journal of Applied Physics, 2021, 129, .	2.5	4
51	Observation of specific optical phonon modes dominating Li ion diffusion in Î³-LiAlO2 ceramic. Ceramics International, 2021, 47, 17980-17985.	4.8	4
52	Evidence for a High-Pressure Isostructural Transition in Nitrogen. Chinese Physics Letters, 2022, 39, 026401.	3.3	4
53	Hysteresis effect in pressure-induced B4-B1 phase transition of ZnO. Materials Research Express, 2019, 6, 126502.	1.6	3
54	Ferromagnetic correlation in hydrogen doped highly oriented pyrolytic graphite. Diamond and Related Materials, 2020, 109, 108030.	3.9	3

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55	Equation of state for generalized pressure. Physical Review B, 2022, 105, .	3.2	3
56	Enhanced hardness of CVD diamond after high pressure and high-temperature treatments. High Pressure Research, 2015, 35, 363-371.	1.2	2
57	Raman study of nonhydrostatic pressureâ€induced phase transitions in monoclinic Lâ€aspartic acid crystals. Journal of Raman Spectroscopy, 2019, 50, 1205-1216.	2.5	2
58	Coupling behavior between lattice dynamics and Li self-diffusion in layered Î±-LiAlO2 ceramic. Ceramics International, 2021, 47, 14587-14593.	4.8	2
59	The solubility behavior of NaCl in water at high pressure studied by neutron diffraction and Raman scattering. High Pressure Research, 2021, 41, 39-51.	1.2	1
60	The coupling of lattice-strain and phonon induced order-disorder phase transition in layered LiGaO2. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 407, 127464.	2.1	1
61	High-pressure synthesis of TaN compacts with high hardness and thermal stability. Ceramics International, 2021, 47, 30039-30042.	4.8	1
62	High-pressure Raman study of osmium and rhenium up to 200 GPa and pressure dependent elastic shear modulus C 44. Chinese Physics B, 0, , .	1.4	0
63	Magnetic moment manipulation in hydrogen-peroxide-doped grafoil, pyrolytic graphite and Fe3C-filled multiwall carbon nanotubes. Nano Express, 2020, 1, 030027.	2.4	0