

Shanmin Wang

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84
papers

1,564
citations

21
h-index

37
g-index

93
ext. papers

2,175
ext. citations

5.7
avg. IF

4.79
L-index

#	Paper	IF	Citations
84	A new molybdenum nitride catalyst with rhombohedral MoS ₂ structure for hydrogenation applications. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4815-22	16.4	148
83	Synthesis, Crystal Structure, and Elastic Properties of Novel Tungsten Nitrides. <i>Chemistry of Materials</i> , 2012 , 24, 3023-3028	9.6	127
82	Experimental visualization of lithium conduction pathways in garnet-type Li ₇ La ₃ Zr ₂ O ₁₂ . <i>Chemical Communications</i> , 2012 , 48, 9840-2	5.8	79
81	Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101299	21.8	77
80	The Hardest Superconducting Metal Nitride. <i>Scientific Reports</i> , 2015 , 5, 13733	4.9	61
79	Vanadium-Based Oxide on Two-Dimensional Vanadium Carbide MXene (V ₂ O _x @V ₂ CT _x) as Cathode for Rechargeable Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4677-4689	6.1	61
78	Inhibition of Manganese Dissolution in Mn ₂ O ₃ Cathode with Controllable Ni ²⁺ Incorporation for High-Performance Zinc Ion Battery. <i>Advanced Functional Materials</i> , 2021 , 31, 2009412	15.6	54
77	Ultrastrong Boron Frameworks in ZrB : A Highway for Electron Conducting. <i>Advanced Materials</i> , 2017 , 29, 1604003	24	50
76	Effective Hamiltonian for nickelate oxides Nd _{1-x} Sr _x NiO ₂ . <i>Physical Review Research</i> , 2020 , 2,	3.9	49
75	Hardness, elastic, and electronic properties of chromium monoboride. <i>Applied Physics Letters</i> , 2015 , 106, 221902	3.4	46
74	Mechanochemical reactions of MnO ₂ and graphite nanosheets as a durable zinc ion battery cathode. <i>Applied Surface Science</i> , 2020 , 534, 147630	6.7	45
73	Nanosintering mechanism of MgAl ₂ O ₄ transparent ceramics under high pressure. <i>Materials Chemistry and Physics</i> , 2010 , 123, 529-533	4.4	44
72	Experimental invalidation of phase-transition-induced elastic softening in CrN. <i>Physical Review B</i> , 2012 , 86,	3.3	42
71	Pressure calibration for the cubic press by differential thermal analysis and the high-pressure fusion curve of aluminum. <i>High Pressure Research</i> , 2009 , 29, 806-814	1.6	40
70	Synthesis, Hardness, and Electronic Properties of Stoichiometric VN and CrN. <i>Crystal Growth and Design</i> , 2016 , 16, 351-358	3.5	38
69	Modulating Zn deposition via ceramic-cellulose separator with interfacial polarization effect for durable zinc anode. <i>Nano Energy</i> , 2021 , 89, 106322	17.1	38
68	Insights into the Li ⁺ storage mechanism of TiC@C-TiO ₂ core-shell nanostructures as high performance anodes. <i>Nano Energy</i> , 2018 , 50, 25-34	17.1	35

67	Synthesis of stoichiometric and bulk CrN through a solid-state ion-exchange reaction. <i>Chemistry - A European Journal</i> , 2012 , 18, 15459-63	4.8	32
66	Carbonization of Ethylenediamine Coimpregnated CoMo/Al ₂ O ₃ Catalysts Sulfided by Organic Sulfiding Agent. <i>ACS Catalysis</i> , 2014 , 4, 2556-2565	13.1	31
65	Ultrahigh-pressure densification of nanocrystalline WB ceramics. <i>Journal of Materials Research</i> , 2010 , 25, 637-640	2.5	26
64	Phase-transition induced elastic softening and band gap transition in semiconducting PbS at high pressure. <i>Inorganic Chemistry</i> , 2013 , 52, 8638-43	5.1	24
63	Synthesis of Onion-Like EMoN Catalyst for Selective Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19451-19460	3.8	21
62	NiMn-Layered Double Hydroxides Chemically Anchored on Ti ₃ C ₂ MXene for Superior Lithium Ion Storage. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11119-11130	6.1	21
61	GaN crystals prepared through solid-state metathesis reaction from NaGaO ₂ and BN under high pressure and high temperature. <i>Journal of Alloys and Compounds</i> , 2011 , 509, L124-L127	5.7	20
60	High-pressure and high-temperature sintering of nanostructured bulk NiAl materials. <i>Journal of Materials Research</i> , 2009 , 24, 2089-2096	2.5	19
59	Raman spectroscopy evidence for dimerization and Mott collapse in RuCl ₃ under pressures. <i>Physical Review Materials</i> , 2019 , 3,	3.2	19
58	Revisit of Pressure-Induced Phase Transition in PbSe: Crystal Structure, and Thermoelastic and Electrical Properties. <i>Inorganic Chemistry</i> , 2015 , 54, 4981-9	5.1	18
57	Sulfur-catalyzed phase transition in MoS ₂ under high pressure and temperature. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 100-104	3.9	18
56	High Pressure Phase-Transformation Induced Texture Evolution and Strengthening in Zirconium Metal: Experiment and Modeling. <i>Scientific Reports</i> , 2015 , 5, 12552	4.9	18
55	Pressure-induced coordination changes in LiBO ₂ . <i>Journal of Solid State Chemistry</i> , 2009 , 182, 3041-3048	3.3	18
54	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. <i>Physical Review B</i> , 2020 , 101,	3.3	14
53	Elastic, magnetic and electronic properties of iridium phosphide Ir ₂ P. <i>Scientific Reports</i> , 2016 , 6, 21787	4.9	14
52	Unusual Mott transition in multiferroic PbCrO ₃ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 15320-5	11.5	13
51	Wear resistance and thermal stability enhancement of PDC sintered with Ti-coated diamond and cBN. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020 , 92, 105278	4.1	13
50	Regulating solvation structure to stabilize zinc anode by fastening the free water molecules with an inorganic colloidal electrolyte. <i>Nano Energy</i> , 2022 , 93, 106839	17.1	13

49	Nanocrystalline MoS ₂ through directional growth along the (002) crystal plane under high pressure. <i>Materials Chemistry and Physics</i> , 2011 , 130, 170-174	4.4	12
48	Pressure induced phase transition of PbNiO ₃ from LiNbO ₃ -type to perovskite. <i>Solid State Communications</i> , 2014 , 196, 8-12	1.6	9
47	Pressure-Dependent Intermediate Magnetic Phase in Thin FeGeTe Flakes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7313-7319	6.4	9
46	Pressure-Induced Phase Transition and Band Gap Engineering in Propylammonium Lead Bromide Perovskite. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 15204-15208	3.8	8
45	Large-volume cubic press produces high temperatures above 4000 Kelvin for study of the refractory materials at pressures. <i>Review of Scientific Instruments</i> , 2020 , 91, 015118	1.7	8
44	Strain-Mediated High Conductivity in Ultrathin Antiferromagnetic Metallic Nitrides. <i>Advanced Materials</i> , 2021 , 33, e2005920	24	8
43	Pressure-Controlled Structural Symmetry Transition in Layered InSe. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900012	8.3	7
42	Anomalous pressure-induced phase transformation in nano-crystalline erbium sesquioxide (Er ₂ O ₃): partial amorphization under compression. <i>High Pressure Research</i> , 2014 , 34, 70-77	1.6	7
41	High-pressure x-ray diffraction study of YBO ₃ /Eu ³⁺ , GdBO ₃ , and EuBO ₃ : Pressure-induced amorphization in GdBO ₃ . <i>Journal of Applied Physics</i> , 2014 , 115, 043507	2.5	7
40	Nanoindentation behavior of nanostructured bulk (Fe,Cr)Al and (Fe,Cr)Al-Al ₂ O ₃ nanocomposites. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 348-356	5.7	6
39	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. <i>Applied Physics Letters</i> , 2020 , 116, 101901	3.4	6
38	Synthesis of low-density from high-density in the presence of melt under high pressure. <i>Solid State Communications</i> , 2010 , 150, 2106-2108	1.6	6
37	Structural twinning-induced insulating phase in CrN (111) films. <i>Physical Review Materials</i> , 2021 , 5,	3.2	6
36	Magnetic origin of phase stability in cubic $\bar{1}10$ MoN. <i>Applied Physics Letters</i> , 2018 , 113, 221901	3.4	6
35	Pressure-Enhanced Ferromagnetism in Layered CrSiTe Flakes. <i>Nano Letters</i> , 2021 , 21, 7946-7952	11.5	6
34	Pressure-induced anomalies and structural instability in compressed $\bar{1}10$ BbO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11430-11436	3.6	5
33	Enhanced thermal and mechanical performance of polycrystalline diamond compact by introducing polycrystalline cubic boron nitride at the grain boundaries. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 96, 105468	4.1	5
32	Enhanced Structural Stability of Sb ₂ Se ₃ via Pressure-Induced Alloying and Amorphization. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3421-3428	3.8	4

31	Synthesis of single-crystal perovskite PbCrO ₃ through a new reaction route at high pressure. <i>High Pressure Research</i> , 2018 , 38, 136-144	1.6	3
30	Phase Stability and Compressibility of 3R-MoN at High Pressure. <i>Scientific Reports</i> , 2019 , 9, 10524	4.9	3
29	Phase transition of NaGaO ₂ at high pressure and high temperature. <i>Solid State Communications</i> , 2012 , 152, 540-544	1.6	3
28	Room-Temperature Ferromagnetism at an Oxide-Nitride Interface.. <i>Physical Review Letters</i> , 2022 , 128, 017202	7.4	3
27	Ultra-incompressible High-Entropy Diborides. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3106-3113	6.4	3
26	Enhanced Hardness in Transition-Metal Monocarbides via Optimal Occupancy of Bonding Orbitals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14365-14376	9.5	3
25	Probing the continuum scattering and magnetic collapse in single-crystalline Bi ₂ IrO ₃ by Raman spectroscopy. <i>Physical Review B</i> , 2020 , 101,	3.3	2
24	Effects of graphene addition on mechanical properties of polycrystalline diamond compact. <i>Ceramics International</i> , 2020 , 46, 11255-11260	5.1	2
23	Growth of Millimeter Size B ₆ O Single Crystals in a B-H ₃ BO ₃ System at High Pressure and High Temperature. <i>Crystal Growth and Design</i> , 2020 , 20, 3732-3736	3.5	2
22	Thermally Induced Anomaly in the Shear Behavior of Magnetite at High Pressure. <i>Physical Review Applied</i> , 2018 , 10,	4.3	2
21	New exploration on phase transition and structure of PbS under high pressure and temperature. <i>Journal of Applied Physics</i> , 2013 , 113, 043509	2.5	2
20	Stoichiometric ENbN: The Most Incompressible Cubic Transition Metal Mononitride. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700063	1.3	2
19	Rational design of fly ash-based composites for sustainable lithium-ion battery anodes. <i>Electrochimica Acta</i> , 2022 , 410, 140035	6.7	2
18	Fragile Pressure-Induced Magnetism in FeSe Superconductors with a Thickness Reduction. <i>Nano Letters</i> , 2021 , 21, 9310-9317	11.5	2
17	Pressure-driven switching of magnetism in layered CrCl. <i>Nanoscale</i> , 2020 , 12, 22935-22944	7.7	2
16	Novel Nitride Materials Synthesized at High Pressure. <i>Crystals</i> , 2021 , 11, 614	2.3	2
15	Anisotropic electronic phase transition in CrN epitaxial thin films. <i>Applied Physics Letters</i> , 2022 , 120, 073103	3.4	2
14	Effect of Fe, Co and Ni promoters on MoS ₂ based catalysts for chemoselective hydrogenation of nitroarenes.. <i>RSC Advances</i> , 2020 , 10, 8055-8065	3.7	1

13	X-ray scattering of calcite thin films deposited by atomic layer deposition: Studies in air and in calcite saturated water solution. <i>Thin Solid Films</i> , 2014 , 565, 277-284	2.2	1
12	Isosymmetric phase transitions, ultrahigh ductility, and topological nodal lines in Ag_2S . <i>Physical Review B</i> , 2020 , 102,	3.3	1
11	Calibration of Manganin pressure gauge for diamond-anvil cells. <i>Review of Scientific Instruments</i> , 2021 , 92, 033905	1.7	1
10	Strain-driven structural selection and amorphization during first-order phase transitions in nanocrystalline Ho_2O_3 under pressure. <i>Physical Review B</i> , 2021 , 103,	3.3	1
9	Tuning of Optical Behavior in Monolayer and Bilayer Molybdenum Disulfide Using Hydrostatic Pressure.. <i>Journal of Physical Chemistry Letters</i> , 2021 , 161-167	6.4	1
8	Concurrent Pressure-Induced Spin-State Transitions and Jahn-Teller Distortions in MnTe . <i>Chemistry of Materials</i> , 2022 , 34, 3931-3940	9.6	1
7	Strengthening Superhard Materials by Nanostructure Engineering. <i>Journal of Superhard Materials</i> , 2021 , 43, 307-329	0.9	0
6	High-Pressure and High-Temperature Synthesis and In Situ High-Pressure Synchrotron X-ray Diffraction Study of HfSi . <i>Inorganic Chemistry</i> , 2021 , 60, 15215-15222	5.1	0
5	Operation of large-volume cubic press above 8 GPa and 2500°C with a centimeter-sized cell volume using an optimized hybrid assembly. <i>High Pressure Research</i> , 2021 , 41, 132-141	1.6	0
4	Giant Viscoelasticity near Mott Criticality in PbCrO_3 with Large Lattice Anomalies.. <i>Physical Review Letters</i> , 2022 , 128, 095702	7.4	0
3	Compressibility and thermoelasticity of CrN . <i>High Pressure Research</i> , 2020 , 40, 423-433	1.6	
2	Unravelling mechanisms for the formation of amorphous bands in B_6O under nonhydrostatic pressure. <i>Scripta Materialia</i> , 2022 , 209, 114376	5.6	
1	Pressure-induced polymerization and bandgap-adjustment of TPEPA.. <i>RSC Advances</i> , 2022 , 12, 11996-12001	9.7	