

Yan-Ning Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99 papers	3,094 citations	31 h-index	52 g-index
102 ext. papers	3,714 ext. citations	6.3 avg, IF	5.51 L-index

#	Paper	IF	Citations
99	Efficient Alkaline Water Oxidation with a Regenerable Nickel Pseudo-Complex. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48661-48668	9.5	1
98	Thermodynamic Regulation of Dendrite-Free Li Plating on LiBi for Stable Lithium Metal Batteries. <i>Nano Letters</i> , 2021 , 21, 8664-8670	11.5	3
97	Modulating Oxygen Vacancies of TiO ₂ Nanospheres by Mn-Doping to Boost Electrocatalytic N ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1512-1517	8.3	18
96	Nonvolatile electric field control of magnetism in bilayer CrI ₃ on monolayer In ₂ Se ₃ . <i>Physical Review B</i> , 2021 , 104,	3.3	4
95	Strain induced structural phase transition in TM ₆ X ₆ (TM = Mo, W; X = S, Se, Te) nanowires. <i>Journal of Solid State Chemistry</i> , 2021 , 300, 122194	3.3	1
94	Reversible dual anionic-redox chemistry in NaCrSSe with fast charging capability. <i>Journal of Power Sources</i> , 2021 , 502, 230022	8.9	2
93	Interfacial engineering of Ni/V ₂ O ₃ for hydrogen evolution reaction. <i>Nano Research</i> , 2020 , 13, 2407-2412	10	24
92	Identifying the Origin of Ti Activity toward Enhanced Electrocatalytic N Reduction over TiO Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020 , 32, e2000299	24	171
91	Promoting Formation of Oxygen Vacancies in Two-Dimensional Cobalt-Doped Ceria Nanosheets for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6461-6466	16.4	82
90	Theoretical Progress on the Relationship between the Structures and Properties of Perovskite Solar Cells. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000022	3.5	4
89	Magnetism modulation of Co ₃ S ₄ towards the efficient hydrogen evolution reaction. <i>Molecular Systems Design and Engineering</i> , 2020 , 5, 565-572	4.6	4
88	Environmentally friendly Mn-alloyed core/shell quantum dots for high-efficiency photoelectrochemical cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10736-10741	13	20
87	Greatly boosting electrochemical hydrogen evolution reaction over Ni ₃ S ₂ nanosheets rationally decorated by Ni ₃ Sn ₂ S ₂ quantum dots. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118675	21.8	38
86	Unusual electrochemical N reduction activity in an earth-abundant iron catalyst via phosphorous modulation. <i>Chemical Communications</i> , 2020 , 56, 731-734	5.8	19
85	Electronic structure modulation of bifunctional oxygen catalysts for rechargeable Zn air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1229-1237	13	11
84	P-Doped graphene toward enhanced electrocatalytic N reduction. <i>Chemical Communications</i> , 2020 , 56, 1831-1834	5.8	48
83	Effects of van der Waals Dispersion Interactions in Density Functional Studies of Adsorption, Catalysis, and Tribology on Metals. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16926-16942	3.8	11

82	Electrochemical Study of Poly(2,6-Anthraquinonyl Sulfide) as Cathode for Alkali-Metal-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2002780	21.8	28
81	First-principles view of the interaction between Li and BiGeO anodes. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26967-26971	3.6	0
80	Greatly Improving Electrochemical N Reduction over TiO Nanoparticles by Iron Doping. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18449-18453	16.4	250
79	Insights into defective TiO in electrocatalytic N reduction: combining theoretical and experimental studies. <i>Nanoscale</i> , 2019 , 11, 1555-1562	7.7	95
78	Monometallic nanoporous nickel with high catalytic performance towards hydrazine electro-conversion and its DFT calculations. <i>Electrochimica Acta</i> , 2019 , 317, 449-458	6.7	7
77	Boron Nanosheet: An Elemental Two-Dimensional (2D) Material for Ambient Electrocatalytic N ₂ -to-NH ₃ Fixation in Neutral Media. <i>ACS Catalysis</i> , 2019 , 9, 4609-4615	13.1	180
76	Theoretical and experimental design of Pt-Co(OH) ₂ electrocatalyst for efficient HER performance in alkaline solution. <i>Progress in Natural Science: Materials International</i> , 2019 , 29, 356-361	3.6	15
75	Hollow Bi ₂ MoO ₆ Sphere Effectively Catalyzes the Ambient Electroreduction of N ₂ to NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 12692-12696	8.3	31
74	Nanowire Quantum Dot Surface Engineering for High Temperature Single Photon Emission. <i>ACS Nano</i> , 2019 , 13, 13492-13500	16.7	13
73	Greatly Improving Electrochemical N ₂ Reduction over TiO ₂ Nanoparticles by Iron Doping. <i>Angewandte Chemie</i> , 2019 , 131, 18620-18624	3.6	31
72	Effect of structural disordering on magnetic and magneto-optical properties of Fe ₃ Si. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
71	Three-Dimensional Nanoporous Polyethylene-Reinforced PVDF-HFP Separator Enabled by Dual-Solvent Hierarchical Gas Liberation for Ultrahigh-Rate Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 921-927	6.1	17
70	How Vertical Compression Triggers Lateral Interlayer Slide for Metallic Molybdenum Disulfide?. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	8
69	Superlubricity Enabled by Pressure-Induced Friction Collapse. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2554-2559	6.4	48
68	Interfacial Engineered Polyaniline/Sulfur-Doped TiO Nanotube Arrays for Ultralong Cycle Lifetime Fiber-Shaped, Solid-State Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18390-18399	9.5	38
67	Defects and impurities induced structural and electronic changes in pyrite CoS: first principles studies. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11649-11655	3.6	3
66	Anchoring and space-confinement effects to form ultrafine Ru nanoclusters for efficient hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13859-13866	13	42
65	First-principles studies on the electronic and optical properties of Fe-doped potassium dihydrogen phosphate crystal. <i>Computational Materials Science</i> , 2018 , 143, 398-402	3.2	8

64	Magnetic and electronic properties of U_2N_3 and its role in preventing uranium from oxidation: First-principles studies. <i>Journal of Nuclear Materials</i> , 2018 , 512, 72-78	3.3	2
63	Bismuth germanate (BiGeO_3), a promising high-capacity lithium-ion battery anode. <i>Chemical Communications</i> , 2018 , 54, 11483-11486	5.8	11
62	The electrochemical properties of CoO as a lithium-ion battery electrode: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25016-25022	3.6	8
61	Influence of magnetic ordering and Jahn-Teller distortion on the lithiation process of LiMnO_2 . <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6481-6486	3.6	32
60	First-principle studies on the influence of anisotropic pressure on the physical properties of aluminum nitride. <i>Materials Research Express</i> , 2017 , 4, 016303	1.7	4
59	Mechanics of surface crosslinked poly(dimethyl siloxane) microstructure used for microcontact transfer printing. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45166	2.9	3
58	Attraction induced frictionless sliding of rare gas monolayer on metallic surfaces: an efficient strategy for superlubricity. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 11026-11031	3.6	13
57	First-Principles Studies on the Structural Stability of Spinel ZnCoO as an Electrode Material for Lithium-ion Batteries. <i>Scientific Reports</i> , 2016 , 6, 36717	4.9	10
56	Enhanced Absorption and Diffusion Properties of Lithium on B,N,V-decorated Graphene. <i>Scientific Reports</i> , 2016 , 6, 37911	4.9	11
55	Low-dimensional ScO_2 with tunable electronic and magnetic properties: first-principles studies. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 015004	1.8	1
54	Two-dimensional square-pyramidal VO_2 with tunable electronic properties. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3189-3197	7.1	16
53	Effect of surface composition on electronic properties of methylammonium lead iodide perovskite. <i>Journal of Materiomics</i> , 2015 , 1, 213-220	6.7	42
52	Two-dimensional hexagonal V_2O nanosheet and nanoribbons. <i>Applied Physics Express</i> , 2015 , 8, 035201	2.4	
51	Porous BN for hydrogen generation and storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9632-9637	13	65
50	Atomistic Modeling of Sulfur Vacancy Diffusion Near Iron Pyrite Surfaces. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 24859-24864	3.8	18
49	Modulating the phase transition between metallic and semiconducting single-layer MoS_2 and WS_2 through size effects. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1099-105	3.6	35
48	Effect of chemical order on the magnetic and electronic properties of epitaxial off-stoichiometry $\text{Fe}_x\text{Si}_{1-x}$ thin films. <i>Physical Review B</i> , 2015 , 91,	3.3	22
47	Communication: Surface stability and topological surface states of cleaved Bi_2Se_3 : First-principles studies. <i>Journal of Chemical Physics</i> , 2015 , 143, 151101	3.9	10

46	High carrier mobility of few-layer PbX (X = S, Se, Te). <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6284-6290.	7.1	29
45	The stability and electronic properties of novel three-dimensional graphene-MoS ₂ hybrid structure. <i>Scientific Reports</i> , 2014 , 4, 7007	4.9	37
44	New manifold two-dimensional single-layer structures of zinc-blende compounds. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17971-17978	13	92
43	Novel heterostructures by stacking layered molybdenum disulfides and nitrides for solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15389-15395	13	71
42	First-Principles Study of Lead Iodide Perovskite Tetragonal and Orthorhombic Phases for Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19565-19571	3.8	196
41	Influence of graphene coating on the adsorption and tribology of Xe on Au(1 1 1) substrate. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 445003	1.8	2
40	Using structural disorder to enhance the magnetism and spin-polarization in Fe _x Si _{1-x} thin films for spintronics. <i>Materials Research Express</i> , 2014 , 1, 026102	1.7	10
39	Intrinsically Conductive Organosilver Linear Chain Polymers [Ag-Biphenyl]n Assembled on Roughened Elemental Silver. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29287-29293	3.8	3
38	Determination of corrugation and friction of Cu(111) toward adsorption and motion of Ne and Xe. <i>Physical Review B</i> , 2014 , 89,	3.3	10
37	Understanding strong magnetostriction in Fe(100-x)Ga(x) alloys. <i>Scientific Reports</i> , 2013 , 3, 3521	4.9	57
36	Iron pyrite thin films synthesized from an Fe(acac) ₃ ink. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4412-24	16.4	119
35	Surface termination of cleaved Bi ₂ Se ₃ investigated by low energy ion scattering. <i>Physical Review Letters</i> , 2013 , 110, 156101	7.4	46
34	First-principles determination of the rhombohedral magnetostriction of Fe _{100-x} Al _x and Fe _{100-x} Ga _x alloys. <i>Physical Review B</i> , 2012 , 86,	3.3	20
33	Correlating electronic transport to atomic structures in self-assembled quantum wires. <i>Nano Letters</i> , 2012 , 12, 938-42	11.5	26
32	Effect of surface stoichiometry on the band gap of the pyrite FeS ₂ (100) surface. <i>Physical Review B</i> , 2012 , 85,	3.3	62
31	First-principles studies of the electronic properties of native and substitutional anionic defects in bulk iron pyrite. <i>Physical Review B</i> , 2012 , 85,	3.3	70
30	Increasing the band gap of iron pyrite by alloying with oxygen. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13216-9	16.4	83
29	Induced magnetism on silicon in Fe ₃ Si quasi-Heusler compound. <i>Physical Review B</i> , 2012 , 85,	3.3	13

28	Pseudodielectric function and critical-point energies of iron pyrite. <i>Physical Review B</i> , 2012 , 86,	3.3	31
27	Structural and chemical properties of gold rare earth disilicide core-shell nanowires. <i>ACS Nano</i> , 2011 , 5, 477-85	16.7	3
26	. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 4044-4049	2	21
25	Direct CO Oxidation by Lattice Oxygen on Zr-Doped Ceria Surfaces. <i>Catalysis Letters</i> , 2011 , 141, 78-82	2.8	31
24	Real-space imaging of Kondo screening in a two-dimensional O _h lattice. <i>Science</i> , 2011 , 333, 324-8	33.3	42
23	Magnetostriction, elasticity, and D0 ₃ phase stability in Fe _{1-x} Ga and Fe _{1-x} Al alloys. <i>Journal of Applied Physics</i> , 2011 , 109, 07A904	2.5	7
22	Why sliding friction of Ne and Kr monolayers is so different on the Pb(111) surface. <i>Physical Review Letters</i> , 2011 , 106, 236103	7.4	39
21	Ab initio studies of the effect of nanoclusters on magnetostriction of Fe _{1-x} Ga alloys. <i>Applied Physics Letters</i> , 2010 , 97, 262505	3.4	46
20	Rigid band model for prediction of magnetostriction of iron-gallium alloys. <i>Applied Physics Letters</i> , 2010 , 96, 062508	3.4	47
19	Understanding of large auxetic properties of iron-gallium and iron-aluminum alloys. <i>Journal of Applied Physics</i> , 2010 , 108, 023513	2.5	27
18	Large magnetostriction in Fe-based alloys predicted by density functional theory. <i>Physical Review B</i> , 2010 , 82,	3.3	14
17	Magnetocrystalline anisotropy of Fe-Si alloys on MgO(001). <i>Physical Review B</i> , 2010 , 81,	3.3	22
16	Large magnetostriction of Fe _{1-x} Ga and its electronic origin: Density functional study. <i>Physical Review B</i> , 2009 , 80,	3.3	27
15	Mechanical behavior and auxetic properties of galphenol 2009 ,		2
14	Relaxation, crystallization, and glass transition in supercooled liquid Ni. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 690-694	2.3	8
13	Viscous behavior of (Sn _{61.9} Pb _{38.1}) _{100-x} RE _x (x=0, 0.1, 0.3, 1 wt%) solder alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 3868-3873	2.3	1
12	Thermodynamic, dynamic and structural relaxation in supercooled liquid and glassy Ni below the critical temperature. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 196106	1.8	21
11	A critical transition state in liquid metals. <i>Materials Letters</i> , 2007 , 61, 2434-2438	3.3	17

10	Vitrification and crystallization of metallic liquid under pressures. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 7559-68	1.8	11
9	Relating nucleation to dynamical and structural heterogeneity in supercooled liquid metal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 350, 69-74	2.3	15
8	Medium-range structural order in liquid Ni ₂₀ Al ₈₀ alloy: Experimental and molecular dynamics studies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 350, 405-409	2.3	11
7	Medium-range order of liquid metal in the quenched state. <i>Physica B: Condensed Matter</i> , 2005 , 355, 140-146	1.8	9
6	Structure and dynamics of gold nanocluster under cooling conditions. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004 , 12, 373-379	2	9
5	The structure and transport property of liquid Al with different EAM model. <i>Physica B: Condensed Matter</i> , 2004 , 351, 208-212	2.8	5
4	Pressure effect on the structural transition of liquid Au. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 320, 452-458	2.3	18
3	Structural simulation of super-cooled liquid Au ₇₅ Cu ₂₅ , Au ₇₅ Ag ₂₅ alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 317, 489-494	2.3	12
2	The molecular dynamics simulation of structure and transport properties of sheared super-cooled liquid metal. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 518-522	2.3	1
1	Melting of Cu nanoclusters by molecular dynamics simulation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 310, 197-202	2.3	70