

Jihua 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.

62
papers

1,165
citations

18
h-index

32
g-index

70
ext. papers

1,802
ext. citations

6.9
avg, IF

4.97
L-index

#	Paper	IF	Citations
62	Highly sensitive non-enzymatic glucose sensor based on CuMn ₂ O ₄ shuttles supporting on Ni foam. <i>Ionics</i> , 2022 , 28, 2447	2.7	0
61	Phase-Selective Synthesis of Ruthenium Phosphide in Hybrid Structure Enables Efficient Hybrid Water Electrolysis Under pH-Universal Conditions.. <i>Small</i> , 2022 , e2200242	11	3
60	Dual Nanoislands on Ni/C Hybrid Nanosheet Activate Superior Hydrazine Oxidation-Assisted High-Efficiency H ₂ Production. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	6
59	Unusual Site-Selective Doping in Layered Cathode Strengthens Electrostatic Cohesion of Alkali-Metal Layer for Practicable Sodium-ion Full Cell. <i>Advanced Materials</i> , 2021 , e2103210	24	9
58	Thermodynamic stability and electronic structure properties of the Bi ₂ WO ₆ (0 0 1) surface: First principle calculation. <i>Applied Surface Science</i> , 2021 , 548, 149053	6.7	6
57	The Thermodynamic Stability, Electronic and Photocatalytic Properties of the ZnWO(100) Surface as Predicted by Screened Hybrid Density Functional Theory. <i>ACS Omega</i> , 2021 , 6, 15057-15067	3.9	2
56	Realizing the Synergy of Interface Engineering and Chemical Substitution for Ni ₃ N Enables its Bifunctionality Toward Hydrazine Oxidation Assisted Energy-Saving Hydrogen Production. <i>Advanced Functional Materials</i> , 2021 , 31, 2103673	15.6	21
55	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5984-5993	16.4	72
54	Artificial Heterointerfaces Achieve Delicate Reaction Kinetics towards Hydrogen Evolution and Hydrazine Oxidation Catalysis. <i>Angewandte Chemie</i> , 2021 , 133, 6049-6058	3.6	9
53	A trifecta of g-CN: enhanced visible-spectrum absorption, increased structural distortion and boosted electronic-transfer dynamics. <i>Chemical Communications</i> , 2021 , 57, 927-930	5.8	1
52	The n-type and p-type conductivity mechanisms of the bulk BiOCl photocatalyst from hybrid density functional theory calculations. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19841-19853	3.6	4
51	General surface grafting strategy-derived carbon-modified graphitic carbon nitride with largely enhanced visible light photocatalytic H ₂ evolution coupled with benzyl alcohol oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7143-7149	13	5
50	Vanadium Substitution Steering Reaction Kinetics Acceleration for NiN Nanosheets Endows Exceptionally Energy-Saving Hydrogen Evolution Coupled with Hydrazine Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3881-3890	9.5	11
49	Single tungsten atom steered band-gap engineering for graphitic carbon nitride ultrathin nanosheets boosts visible-light photocatalytic H ₂ evolution. <i>Chemical Engineering Journal</i> , 2021 , 424, 130004	14.7	9
48	Dual-doped carbon hollow nanospheres achieve boosted pseudocapacitive energy storage for aqueous zinc ion hybrid capacitors. <i>Energy Storage Materials</i> , 2021 , 42, 705-714	19.4	14
47	The stability and electronic and photocatalytic properties of the ZnWO (010) surface determined from first-principles and thermodynamic calculations.. <i>RSC Advances</i> , 2021 , 11, 23477-23490	3.7	1
46	Transition Metal and N Doping on ALP Monolayers for Bifunctional Oxygen Electrocatalysts: Density Functional Theory Study Assisted by Machine Learning Description.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5

45	Hybrid density functional studies for the effect of oxygen vacancy on the visible light photocatalytic activity in M (M=Li, Na, K, Rb, Cs)-doped Bi ₂ O ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 146, 109581	3.9	4
44	Hybrid density functional studies of native defects and H impurities in wurtzite CdSe. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7474-7482	3.6	2
43	Realizing synergistic effect of electronic modulation and nanostructure engineering over graphitic carbon nitride for highly efficient visible-light H ₂ production coupled with benzyl alcohol oxidation. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118772	21.8	32
42	Effects of native defects and cerium impurity on the monoclinic BiVO ₄ photocatalyst obtained via PBE+U calculations. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 25297-25305	3.6	5
41	Hybrid Density Functional Theory Study of Native Defects and Nonmetal (C, N, S, and P) Doping in a BiWO ₄ Photocatalyst. <i>ACS Omega</i> , 2020 , 5, 29081-29091	3.9	10
40	The first-principles study of nH-V complex: impurity effects on p-type SnO monolayer. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19275-19281	3.6	1
39	Partially exposed RuP surface in hybrid structure endows its bifunctionality for hydrazine oxidation and hydrogen evolution catalysis. <i>Science Advances</i> , 2020 , 6,	14.3	66
38	Robust, Reprocessable, and Reconfigurable Cellulose-Based Multiple Shape Memory Polymer Enabled by Dynamic Metal-Ligand Bonds. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25233-25242	9.5	18
37	Manipulating dehydrogenation kinetics through dual-doping CoN electrode enables highly efficient hydrazine oxidation assisting self-powered H ₂ production. <i>Nature Communications</i> , 2020 , 11, 1853	17.4	94
36	Tunable Type-II BiVO ₄ /g-C ₃ N ₄ Nanoheterostructures for Photocatalysis Applications. <i>Physical Review Applied</i> , 2019 , 11,	4.3	12
35	Thermoelectric optimization of AgBiSe ₂ by defect engineering for room-temperature applications. <i>Physical Review B</i> , 2019 , 99,	3.3	21
34	Revealing the structural, electronic and optical properties of lead-free perovskite derivatives of Rb ₂ SnX ₆ (X = Cl, Br and I): A theory calculation. <i>Solar Energy</i> , 2019 , 190, 272-277	6.8	17
33	Modulating charge transfer dynamics for g-C ₃ N ₄ through a dimension and interface engineered transition metal phosphide co-catalyst for efficient visible-light photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6939-6945	13	42
32	Comparative study of the binding mode between cytochrome P450 17A1 and prostate cancer drugs in the absence of haem iron. <i>Journal of Biomolecular Structure and Dynamics</i> , 2019 , 37, 4161-4170	3.6	7
31	Thickness Control of the Spin-Polarized Two-Dimensional Electron Gas in LaAlO ₃ /BaTiO ₃ Superlattices. <i>Scientific Reports</i> , 2018 , 8, 467	4.9	5
30	The nature of the high thermoelectric properties of CuInX ₂ (X = S, Se and Te): First-principles study. <i>Applied Surface Science</i> , 2018 , 458, 564-571	6.7	4
29	Making a Rapid Completion of Crystallization for Bisphenol A Polycarbonate by a Double-Layer Film Method. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6797-6803	3.9	3
28	Synthesis, order-to-disorder transition, microphase morphology and mechanical properties of BAB triblock copolymer elastomers with hard middle block and soft outer blocks. <i>Polymer Chemistry</i> , 2018 , 9, 3067-3079	4.9	15

27	Hybrid density functional study on the mechanism for the enhanced photocatalytic properties of the ultrathin hybrid layered nanocomposite g-C ₃ N ₄ /BiOCl. <i>Applied Surface Science</i> , 2018 , 435, 1351-1360	6.7	35
26	ZIF-8@polyoxometalate derived Si-doped ZnWO ₄ @ZnO nanocapsules with open-shaped structures for efficient visible light photocatalysis. <i>Chemical Communications</i> , 2018 , 54, 13786-13789	5.8	12
25	Effect of Cholesterol on Membrane Dipole Potential: Atomistic and Coarse-Grained Molecular Dynamics Simulations. <i>Journal of Chemical Theory and Computation</i> , 2018 , 14, 3780-3795	6.4	9
24	First-principles study of Ga-vacancy induced magnetism in β -Ga ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28928-28935	3.6	7
23	Ag-Mg antisite defect induced high thermoelectric performance of β -MgAgSb. <i>Scientific Reports</i> , 2017 , 7, 2572	4.9	20
22	Triblock Copolymer Elastomers with Enhanced Mechanical Properties Synthesized by RAFT Polymerization and Subsequent Quaternization through Incorporation of a Comonomer with Imidazole Groups of about 2.0 Mass Percentage. <i>Macromolecules</i> , 2017 , 50, 6218-6226	5.5	31
21	Structural properties and strain engineering of a BeB ₂ monolayer from first-principles. <i>RSC Advances</i> , 2017 , 7, 38410-38414	3.7	11
20	Dual effects of lone-pair electrons and rattling atoms in CuBiS ₂ on its ultralow thermal conductivity. <i>Physical Review B</i> , 2017 , 96,	3.3	30
19	Cell Environment-Differentiated Self-Assembly of Nanofibers. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11128-31	16.4	126
18	Origin of high thermoelectric performance of FeNb _{1-x} Zr/Hf _x Sb _{1-y} Sn _y alloys: A first-principles study. <i>Scientific Reports</i> , 2016 , 6, 33120	4.9	16
17	Effects of Mo/W codoping on the visible-light photocatalytic activity of monoclinic BiVO ₄ within the GGA + U framework. <i>RSC Advances</i> , 2016 , 6, 12290-12297	3.7	36
16	A graphene-coupled Bi ₂ WO ₆ nanocomposite with enhanced photocatalytic performance: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14113-21	3.6	21
15	Enhanced photocatalytic activities of Bi ₂ WO ₆ by introducing Zn to replace Bi lattice sites: a first-principles study. <i>RSC Advances</i> , 2015 , 5, 29058-29065	3.7	26
14	Enhanced visible-light photocatalytic activity of a g-C ₃ N ₄ /BiVO ₄ nanocomposite: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10218-26	3.6	132
13	Electronic structure and thermoelectric properties of the Zintl compounds Sr ₅ Al ₂ Sb ₆ and Ca ₅ Al ₂ Sb ₆ : first-principles study. <i>RSC Advances</i> , 2015 , 5, 50720-50728	3.7	8
12	An impurity intermediate band due to Pb doping induced promising thermoelectric performance of Ca ₅ In ₂ Sb ₆ . <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15156-64	3.6	9
11	Combination of magnetic and enhanced mechanical properties for copolymer-grafted magnetite composite thermoplastic elastomers. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10563-75	9.5	37
10	Diamond nanowires with nitrogen vacancy under a transverse electric field. <i>Physical Review B</i> , 2015 , 91,	3.3	8

9	Fabrication of Copolymer-Grafted Multiwalled Carbon Nanotube Composite Thermoplastic Elastomers Filled with Unmodified MWCNTs as Additional Nanofillers To Significantly Improve Both Electrical Conductivity and Mechanical Properties. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12597-12606	3.9	9
8	Molecular dynamics study on the stability and properties of ECgeyne. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2014 , 63, 207303	0.6	1
7	First-principles study on electronic and optical properties of Cu-doped LiF with Li vacancy. <i>Physica B: Condensed Matter</i> , 2012 , 407, 2458-2461	2.8	4
6	A Possible New Parent Compound Sr ₄ Al ₂ O ₆ Fe ₂ As ₂ with High-TC Superconductivity. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 024713	1.5	3
5	Modulation effects of Cu doping on magnetic properties of Zn(Ni)O: First-principle calculations. <i>Journal of Magnetism and Magnetic Materials</i> , 2011 , 323, 3117-3120	2.8	3
4	Infrared, visible and ultraviolet absorptions of transition metal doped ZnS crystals with spin-polarized bands. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 477-480	3.3	11
3	Structural stability and electronic properties of the new superconductor (Ca ₄ Al ₂ O ₆)(Fe ₂ As ₂) from first-principles study. <i>Superconductor Science and Technology</i> , 2011 , 24, 105014	3.1	4
2	Electronic and optical properties of doped crystals: First-principles calculations. <i>Solid State Communications</i> , 2009 , 149, 1188-1192	1.6	8
1	Sulfur incorporation modulated absorption kinetics and electron transfer behavior for nitrogen rich porous carbon nanotubes endow superior aqueous zinc ion storage capability. <i>Journal of Materials Chemistry A</i> ,	13	2