Min Zhou

List of Publications by Year in Descending Order

72 papers	7,665 citations	30 h-index	77 g-index
77 ext. papers	8,895 ext. citations	9.6 avg, IF	5.95 L-index

#	Paper	IF	Citations
72	The significant role of electron donating capacity and carbon structure of biochar to electron transfer of zerovalent iron. *Chemosphere*, **2022**, 287, 132381	8.4	2
71	Ligands Dependent Electrocatalytic Nitrogen Reduction Performance in d-π conjugated Molecules. *Applied Surface Science*, **2022**, 153338	6.7	0
70	Ni-Mo Based Metal/Oxide Heterostructured Nanosheets with Largely Exposed Interfacial Atoms for Overall Water-splitting. *Applied Surface Science*, **2022**, 153597	6.7	0
69	Structural Evolution of Boron Clusters on Ag(111) Surfaces - From Atomic Chains to Triangular Sheets with Hexagonal Holes. *ChemPhysChem*, **2021**, 22, 894-903	3.2	0
68	Pressure-assisted soldering of copper using porous metal-reinforced Sn58Bi solder. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 18968-18977	2.1	0
67	Analytical transmission electron microscopy for emerging advanced materials. *Matter*, **2021**, 4, 2309-2339	12.7	9
66	The contribution of lignocellulosic constituents to Cr(VI) reduction capacity of biochar-supported zerovalent iron. *Chemosphere*, **2021**, 263, 127871	8.4	16
65	Plasticity enhancement of nano-Ag sintered joint based on metal foam. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 7187-7197	2.1	0
64	Improvement on the mechanical properties of eutectic Sn58Bi alloy with porous Cu addition during isothermal aging. *Materials Research Express*, **2021**, 8, 076302	1.7	2
63	High Electrocatalytic Activity of Defected MX2/Graphene Heterostructures (M = Mo, W; X = S, Se) for Hydrogen Evolution Reaction. *Journal of Physical Chemistry C*, **2021**, 125, 15292-15300	3.8	3
62	Modulating 3d Orbitals of Ni Atoms on Ni-Pt Edge Sites Enables Highly-Efficient Alkaline Hydrogen Evolution. *Advanced Energy Materials*, **2021**, 11, 2101789	21.8	5
61	Hierarchical SnO2 hollow nanotubes as anodes for high performance lithium-ion battery. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 22944-22952	2.1	2
60	Reproducible X-ray Imaging with a Perovskite Nanocrystal Scintillator Embedded in a Transparent Amorphous Network Structure. *Advanced Materials*, **2021**, 33, e2102529	24	47
59	Hierarchically porous boron nitride foams for multifunctional bulk adsorbents. *Chemical Engineering Journal*, **2021**, 422, 129896	14.7	6
58	Pinewood outperformed bamboo as feedstock to prepare biochar-supported zero-valent iron for Cr reduction. *Environmental Research*, **2020**, 187, 109695	7.9	19
57	Rationally designed C/CoS@SnS nanocomposite as a highly efficient anode for lithium-ion batteries. *Nanotechnology*, **2020**, 31, 395401	3.4	3
56	Hetero-structured CoS2-MoS2 hollow microspheres with robust catalytic activity for alkaline hydrogen evolution. *Applied Surface Science*, **2020**, 527, 146847	6.7	5

55	Microstructure, mechanical, and thermal behaviors of SnBi/Cu solder joint enhanced by porous Cu. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8258-8267	2.1	8
54	High-Stable X-ray Imaging from All-Inorganic Perovskite Nanocrystals under a High Dose Radiation. *Journal of Physical Chemistry Letters*, **2020**, 11, 9203-9209	6.4	18
53	Effect of porous Cu addition on the microstructure and mechanical properties of SnBi-xAg solder joints. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	2
52	MoS2 nanosheets grown on nickel chalcogenides: controllable synthesis and electrocatalytic origins for the hydrogen evolution reaction in alkaline solution. *Journal of Materials Chemistry A*, **2019**, 7, 21514-21522	13	19
51	Biomass facilitated phase transformation of natural hematite at high temperatures and sorption of Cd and Cu. *Environment International*, **2019**, 124, 473-481	12.9	27
50	Topological Formation of a Mo-Ni-Based Hollow Structure as a Highly Efficient Electrocatalyst for the Hydrogen Evolution Reaction in Alkaline Solutions. *ACS Applied Materials & Interfaces*, **2019**, 11, 21998-22004	9.5	34
49	All-in-one surface engineering strategy on nickel phosphide arrays towards a robust electrocatalyst for hydrogen evolution reaction. *Journal of Power Sources*, **2019**, 429, 46-54	8.9	25
48	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. *Journal of Hazardous Materials*, **2019**, 373, 820-834	12.8	164
47	Enhancing Capacitance of Nickel Cobalt Chalcogenide via Interface Structural Design. *ACS Applied Materials & Interfaces*, **2019**, 11, 2082-2092	9.5	15
46	Ammonium Vanadium Bronze as a Potassium-Ion Battery Cathode with High Rate Capability and Cyclability. *Small Methods*, **2019**, 3, 1800349	12.8	40
45	Iron doped cobalt sulfide derived boosted electrocatalyst for water oxidation. *Applied Surface Science*, **2018**, 448, 9-15	6.7	36
44	Construction of Polarized Carbon-Nickel Catalytic Surfaces for Potent, Durable, and Economic Hydrogen Evolution Reactions. *ACS Nano*, **2018**, 12, 4148-4155	16.7	97
43	Heterostructured Electrocatalysts for Hydrogen Evolution Reaction Under Alkaline Conditions. *Nano-Micro Letters*, **2018**, 10, 75	19.5	223
42	Enhanced conductive loss in nickel–cobalt sulfide nanostructures for highly efficient microwave absorption and shielding. *Journal Physics D: Applied Physics*, **2018**, 51, 235303	3	4
41	In situ electrochemical formation of core–shell nickel–iron disulfide and oxyhydroxide heterostructured catalysts for a stable oxygen evolution reaction and the associated mechanisms. *Journal of Materials Chemistry A*, **2017**, 5, 4335-4342	13	126
40	Ferromagnetic behavior of non-stoichiometric ZnS microspheres with a nanoplate-netted surface. *RSC Advances*, **2017**, 7, 20874-20881	3.7	22
39	Improved Li Storage through Homogeneous N-Doping within Highly Branched Tubular Graphitic Foam. *Advanced Materials*, **2017**, 29, 1603692	24	86
38	Self-Supported BiMoO Nanowall for Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 23647-23653	9.5	49

37	Protrusions or holes in graphene: which is the better choice for sodium ion storage?. *Energy and Environmental Science*, **2017**, 10, 979-986	35.4	140
36	Facile synthesis of hierarchical fern leaf-like Sb and its application as an additive-free anode for fast reversible Na-ion storage. *Journal of Materials Chemistry A*, **2017**, 5, 1749-1755	13	38
35	Multifunctional Superelastic Foam-Like Boron Nitride Nanotubular Cellular-Network Architectures. *ACS Nano*, **2017**, 11, 558-568	16.7	76
34	First-Row Transition Metal Based Catalysts for the Oxygen Evolution Reaction under Alkaline Conditions: Basic Principles and Recent Advances. *Small*, **2017**, 13, 1701931	11	240
33	Interconnected SnO2 Microsphere Films with Improved Ultraviolet Photodetector Properties. *Journal of Electronic Materials*, **2017**, 46, 6669-6676	1.9	6
32	Hierarchical Sb-Ni nanoarrays as robust binder-free anodes for high-performance sodium-ion half and full cells. *Nano Research*, **2017**, 10, 3189-3201	10	31
31	A Selectively Permeable Membrane for Enhancing Cyclability of Organic Sodium-Ion Batteries. *Advanced Materials*, **2016**, 28, 9182-9187	24	59
30	Constructing Well-Ordered CdTe/TiO Core/Shell Nanowire Arrays for Solar Energy Conversion. *Small*, **2016**, 12, 5538-5542	11	9
29	Nanoengineering Energy Conversion and Storage Devices via Atomic Layer Deposition. *Advanced Energy Materials*, **2016**, 6, 1600468	21.8	46
28	Nanowire Arrays: Constructing Well-Ordered CdTe/TiO2 Core/Shell Nanowire Arrays for Solar Energy Conversion (Small 40/2016). *Small*, **2016**, 12, 5648-5648	11	1
27	Manipulation of Disodium Rhodizonate: Factors for Fast-Charge and Fast-Discharge Sodium-Ion Batteries with Long-Term Cyclability. *Advanced Functional Materials*, **2016**, 26, 1777-1786	15.6	117
26	Engineering sulfur vacancies and impurities in NiCo2S4 nanostructures toward optimal supercapacitive performance. *Nano Energy*, **2016**, 26, 313-323	17.1	273
25	Nanoarchitectured Array Electrodes for Rechargeable Lithium- and Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502514	21.8	140
24	Large-scale highly ordered Sb nanorod array anodes with high capacity and rate capability for sodium-ion batteries. *Energy and Environmental Science*, **2015**, 8, 2954-2962	35.4	246
23	Loss mechanism and microwave absorption properties of hierarchical NiCo2O4nanomaterial. *Journal Physics D: Applied Physics*, **2015**, 48, 215305	3	32
22	Ultrathin Spinel-Structured Nanosheets Rich in Oxygen Deficiencies for Enhanced Electrocatalytic Water Oxidation. *Angewandte Chemie - International Edition*, **2015**, 54, 7399-404	16.4	883
21	Nanosheet-built tin-oxides hollow microsphere and their phase transition with an annealing treatment. *Materials Research Bulletin*, **2015**, 70, 697-703	5.1	3
20	Thickness dependent complex permittivity and microwave absorption of NiCo2O4 nanoflakes. *Materials Letters*, **2015**, 159, 498-501	3.3	26

19	One-pot construction of three dimensional CoMoO4/Co3O4 hybrid nanostructures and their application in supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 21201-21210	13	83
18	Enhancement of Sodium Ion Battery Performance Enabled by Oxygen Vacancies. *Angewandte Chemie - International Edition*, **2015**, 54, 8768-71	16.4	150
17	Ultrathin Spinel-Structured Nanosheets Rich in Oxygen Deficiencies for Enhanced Electrocatalytic Water Oxidation. *Angewandte Chemie*, **2015**, 127, 7507-7512	3.6	303
16	Enhancement of Sodium Ion Battery Performance Enabled by Oxygen Vacancies. *Angewandte Chemie*, **2015**, 127, 8892-8895	3.6	21
15	Electrospun SnO2 submicron fibers for broadband microwave absorption. *Journal Physics D: Applied Physics*, **2015**, 48, 495303	3	15
14	Electrophoretic fabrication of silver nanostructure/zinc oxide nanorod heterogeneous arrays with excellent SERS performance. *Journal of Materials Chemistry C*, **2015**, 3, 1724-1731	7.1	12
13	Spontaneous structure transition in nanoparticle aggregates: from amorphous clusters to super-crystals. *CrystEngComm*, **2015**, 17, 4637-4641	3.3	4
12	Size- and morphology-dependent optical properties of ZnS:Al one-dimensional structures. *Journal of Nanoparticle Research*, **2015**, 17, 188	2.3	16
11	Quantum dot-assembled mesoporous CuO nanospheres based on laser ablation in water. *RSC Advances*, **2015**, 5, 19479-19483	3.7	8
10	High-efficiency photocatalytic activity of type II SnO/Sn3O4 heterostructures via interfacial charge transfer. *CrystEngComm*, **2014**, 16, 6841-6847	3.3	95
9	Defect-rich MoS2 ultrathin nanosheets with additional active edge sites for enhanced electrocatalytic hydrogen evolution. *Advanced Materials*, **2013**, 25, 5807-13	24	2285
8	Vacancy associates promoting solar-driven photocatalytic activity of ultrathin bismuth oxychloride nanosheets. *Journal of the American Chemical Society*, **2013**, 135, 10411-7	16.4	911
7	Enhanced microwave absorption performance of hollow alpha-MnO2 nanourchins. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 904-8	1.3	9
6	Morphology-Controlled Synthesis and Novel Microwave Absorption Properties of Hollow Urchinlike □MnO2 Nanostructures. *Journal of Physical Chemistry C*, **2011**, 115, 1398-1402	3.8	236
5	Growth process and microwave absorption properties of nanostructured □MnO2 urchins. *Materials Chemistry and Physics*, **2011**, 130, 1191-1194	4.4	30
4	Designed borophene/TMDs hybrid catalysts for enhanced hydrogen evolution reactions. *Journal of Materials Chemistry C*,	7.1	2
3	Effect of isothermal ageing on the microstructure, shear behaviour and hardness of the Sn58Bi/SnAgCuBiNi/Cu solder joints. *Welding International*,1-9	0.1	
2	Effects of Sn-Ag-x layers on the solderability and mechanical properties of Sn-58Bi solder. *Welding International*,1-8	0.1	

1 The synthesis of highly efficient NiFe hydroxide@CoS electrocatalyst for oxygen evolution reaction. *Journal of Materials Science*, 4.3 1