Yong-Fu Zhu

List of Publications by Citations

63 papers	1,264 citations	21 h-index	34 g-index
66 ext. papers	1,497 ext. citations	5.3 avg, IF	4.74 L-index

#	Paper	IF	Citations
63	Modeling of the Melting Point, Debye Temperature, Thermal Expansion Coefficient, and the Specific Heat of Nanostructured Materials. *Journal of Physical Chemistry C*, **2009**, 113, 16896-16900	3.8	116
62	Mesostructured Intermetallic Compounds of Platinum and Non-Transition Metals for Enhanced Electrocatalysis of Oxygen Reduction Reaction. *Advanced Functional Materials*, **2015**, 25, 230-237	15.6	113
61	Layered SiC sheets: a potential catalyst for oxygen reduction reaction. *Scientific Reports*, **2014**, 4, 3821	4.9	92
60	Bandgap Opening of Bilayer Graphene by Dual Doping from Organic Molecule and Substrate. *Journal of Physical Chemistry C*, **2013**, 117, 12873-12881	3.8	66
59	Al13@Pt42 core-shell cluster for oxygen reduction reaction. *Scientific Reports*, **2014**, 4, 5205	4.9	58
58	Facile Synthesis of Non-Graphitizable Polypyrrole-Derived Carbon/Carbon Nanotubes for Lithium-ion Batteries. *Scientific Reports*, **2016**, 6, 19317	4.9	47
57	Nanoporous Surface High-Entropy Alloys as Highly Efficient Multisite Electrocatalysts for Nonacidic Hydrogen Evolution Reaction. *Advanced Functional Materials*, **2021**, 31, 2009613	15.6	47
56	Physicochemical insight into gap openings in graphene. *Scientific Reports*, **2013**, 3, 1524	4.9	44
55	Facile Synthesis of Sulfur–Polypyrrole as Cathodes for Lithium–Sulfur Batteries. *ChemElectroChem*, **2017**, 4, 115-121	4.3	43
54	Single-crystalline Ni(OH)2 nanosheets vertically aligned on a three-dimensional nanoporous metal for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 23412-23419	13	40
53	Modeling lattice expansion and cohesive energy of nanostructured materials. *Applied Physics Letters*, **2009**, 95, 083110	3.4	40
52	Structures and Quantum Conduction of Copper Nanowires under Electric Fields Using First Principles. *Journal of Physical Chemistry C*, **2008**, 112, 9045-9049	3.8	39
51	Electron scattering and electrical conductance in polycrystalline metallic films and wires: impact of grain boundary scattering related to melting point. *ACS Nano*, **2010**, 4, 3781-8	16.7	38
50	Strain tuned InSe/MoS bilayer van der Waals heterostructures for photovoltaics or photocatalysis. *Physical Chemistry Chemical Physics*, **2018**, 20, 17574-17582	3.6	38
49	Electronic and Magnetic Engineering in Zigzag Graphene Nanoribbons Having a Topological Line Defect at Different Positions with or without Strain. *Journal of Physical Chemistry C*, **2013**, 117, 4791-4799	3.8	33
48	Optimizing the supercapacitive performance via encasing MOF-derived hollow (Ni,Co)Se2 nanocubes into reduced graphene oxide. *Chemical Engineering Journal*, **2020**, 399, 125789	14.7	32
47	Activated basal planes of WS2 by intrinsic defects as catalysts for the electrocatalytic nitrogen reduction reaction. *Journal of Materials Chemistry A*, **2019**, 7, 25961-25968	13	28

46	SnO2 nanoparticles embedded in 3D nanoporous/solid copper current collectors for high-performance reversible lithium storage. *Journal of Materials Chemistry A*, **2014**, 2, 15519	13	25
45	Nanoporous Au/SnO/Ag heterogeneous films for ultrahigh and uniform surface-enhanced Raman scattering. *Journal of Materials Chemistry C*, **2014**, 2, 7216	7.1	25
44	Oxidation Behavior of CO Catalyzed by Several Decahedral Au Clusters: Role of Cluster Stability and Electric Field. *Journal of Physical Chemistry C*, **2010**, 114, 21094-21099	3.8	22
43	Design of Hydrogen Storage Alloys/Nanoporous Metals Hybrid Electrodes for Nickel-Metal Hydride Batteries. *Scientific Reports*, **2016**, 6, 27601	4.9	21
42	Molecular orientation transformation in initial growth stage of disk-like phthalocyanine during organic vapor deposition process. *Chemical Science*, **2012**, 3, 528-536	9.4	21
41	Site- and Structure-Dependent Cohesive Energy in Several Ag Clusters. *Journal of Physical Chemistry C*, **2009**, 113, 10907-10912	3.8	20
40	Potassium-ion batteries with novel N, O enriched corn silk-derived carbon as anode exhibiting excellent rate performance. *Journal of Power Sources*, **2021**, 481, 228644	8.9	18
39	Formation of arsenene p□ junctions via organic molecular adsorption. *Journal of Materials Chemistry C*, **2017**, 5, 7283-7290	7.1	16
38	3D hierarchical self-supported NiO/Co3O4@C/CoS2 nanocomposites as electrode materials for high-performance supercapacitors. *Nanoscale Advances*, **2020**, 2, 2785-2791	5.1	13
37	Novel electronic properties of two-dimensional AsxSby alloys studied using DFT. *Journal of Materials Chemistry C*, **2018**, 6, 2854-2861	7.1	13
36	DFT study of CO oxidation on Cu2O□Au interfaces at Au□Cu alloy surfaces. *RSC Advances*, **2015**, 5, 1587-1597	3.7	11
35	Eu and F co-doped ZnO-based transparent electrodes for organic and quantum dot light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 5542-5551	7.1	11
34	Distinct Young□s modulus of nanostructured materials in comparison with nanocrystals. *Physical Chemistry Chemical Physics*, **2011**, 13, 21328-32	3.6	11
33	Facile Synthesis of Ni Zn Fe O (x=0, 0.25, 0.5, 0.75, 1) as Anode Materials for Lithium Storage. *ChemPlusChem*, **2016**, 81, 1174-1181	2.8	10
32	High-loading intrinsic active sites for ammonia synthesis using efficient single-atom catalyst: 2D tungsten-porphyrin sheet. *Applied Surface Science*, **2020**, 529, 147183	6.7	10
31	Thickness-dependent bandgap of transition metal dichalcogenides dominated by interlayer van der Waals interaction. *Physica E: Low-Dimensional Systems and Nanostructures*, **2019**, 109, 11-16	3	9
30	Copper metallization for current very large scale integration. *Recent Patents on Nanotechnology*, **2011**, 5, 106-37	1.2	8
29	High thermal stability of core-shell structures dominated by negative interface energy. *Physical Chemistry Chemical Physics*, **2017**, 19, 9253-9260	3.6	7

28	Three-dimensional Ni/MnO2 nanocylinder array with high capacitance for supercapacitors. *Results in Physics*, **2019**, 12, 1411-1416	3.7	7
27	Thickness-dependent surface energies of few-layered arsenene and antimonene films in and phases. *Physica E: Low-Dimensional Systems and Nanostructures*, **2018**, 101, 38-43	3	7
26	Toward Tandem Photovoltaic Devices Employing Nanoarray Graphene-Based Sheets. *Journal of Physical Chemistry C*, **2014**, 118, 2385-2390	3.8	6
25	Role of edge geometry and magnetic interaction in opening bandgap of low-dimensional graphene. *ChemPhysChem*, **2014**, 15, 958-65	3.2	6
24	Lithium Storage in Carbon-coated Zinc Iron Oxides as Anode Materials for Lithium-Ion Batteries. *Energy Technology*, **2017**, 5, 611-615	3.5	6
23	Effect of negative substrate bias voltage on the nucleation and growth of Cu films during the initial stage of ion beam deposition. *Metals and Materials International*, **2008**, 14, 381-384	2.4	6
22	Effect of the interface energy on the pressure-induced superheating of metallic nanoparticles embedded in a matrix. *Scripta Materialia*, **2018**, 142, 23-27	5.6	6
21	Transcriptome characterization of HPG axis from Chinese sea perch Lateolabrax maculatus. *Journal of Fish Biology*, **2017**, 91, 1407-1418	1.9	5
20	Sulfur-Modified Carbon-Coated CoMoO3 Nanohybrid Electrodes for Enhanced Lithium-Storage Capacity. *ACS Applied Nano Materials*, **2020**, 3, 1808-1820	5.6	4
19	Growth performance, zinc tissue content, and intestinal health in meat ducks fed different specific surface area of micronized zinc oxide. *Poultry Science*, **2019**, 98, 3894-3901	3.9	3
18	Gap openings in graphene regarding interfacial interaction from substrates. *Physical Chemistry Chemical Physics*, **2014**, 16, 5600-4	3.6	3
17	CoMoO3 Nanoplate/Reduced Graphene Oxide Composites Decorated with Ag Nanoparticles for Electrocatalytic Water Oxidation. *ACS Applied Nano Materials*, **2021**, 4, 5383-5393	5.6	3
16	Co1NixZny(CO3)0.5(OH)0.11H2O NanoneedlesNiCo-Layered Double Hydroxide Nanosheet Composites on Vulcanized Ni Foams for Supercapacitors. *ACS Applied Nano Materials*, **2021**, 4, 1743-1753	5.6	3
15	Interface effect on the cohesive energy of nanostructured materials and substrate-supported nanofilms. *Dalton Transactions*, **2018**, 47, 4856-4865	4.3	2
14	Dependence of Thermal Annealing on Transparent Conducting Properties of HoF3-Doped ZnO Thin Films. *Chinese Physics Letters*, **2019**, 36, 057303	1.8	2
13	Composites of Reduced Graphene Oxide and Fe2O3 Nanoparticles Anchored on MoS2 Nanosheets for Lithium Storage. *ACS Applied Nano Materials*, **2020**, 3, 9009-9015	5.6	2
12	Failure Analysis for Hydraulic System of Heavy-Duty Machine Tool with Incomplete Failure Data. *Applied Sciences (Switzerland)*, **2021**, 11, 1249	2.6	2
11	Composition- and layer-dependent bandgap of two-dimensional transition metal dichalcogenides alloys. *Physica E: Low-Dimensional Systems and Nanostructures*, **2020**, 124, 114243	3	1

List of Publications

10	Cohesive-energy-resolved bandgap of nanoscale graphene derivatives. *ChemPhysChem*, **2014**, 15, 2563-8	3.2	1
9	Physicochemical insight into gap openings in graphene		1
8	Steric Hindrance- and Work Function-Promoted High Performance for Electrochemical CO Methanation on Antisite Defects of MoS and WS. *ChemSusChem*, **2021**, 14, 2255-2261	8.3	1
7	Modeling and analysis of the influencing factors of illite resistivity in ultra-low permeability oilfield. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	1
6	CoMoO4/rGO hybrid structure embellished with Cu nanoparticles: An electrocatalyst rich in oxygen vacancies towards enhanced oxygen evolution reaction. *Materials Letters*, **2021**, 293, 129741	3.3	1
5	Reliability optimization design of hydraulic system considering oil contamination. *Journal of Mechanical Science and Technology*, **2020**, 34, 5041-5051	1.6	0
4	Effects of surface and grain boundary on temperature-pressure nano-phase diagrams of nanostructured carbon. *Scripta Materialia*, **2022**, 207, 114267	5.6	0
3	Raising glass transition temperature of polymer nanofilms as a function of negative interface energy. *Physical Chemistry Chemical Physics*, **2019**, 21, 5224-5231	3.6	
2	Preparation and Property Study of Organosilicon Antisticking Coatings. *Advances in Materials Science and Engineering*, **2020**, 2020, 1-9	1.5	
1	Effect of small amounts of chalcogen alloying elements on the oxidation resistance of copper. *Corrosion Reviews*, **2020**, 38, 529-536	3.2	