

# Zhiyong Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

4,802  
citations

94433

37  
h-index

197818

49  
g-index

51  
all docs

51  
docs citations

51  
times ranked

6970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Bifunctional Oxygen Catalysis in Strained LaNiO <sub>3</sub> Perovskites. <i>Journal of the American Chemical Society</i> , 2016, 138, 2488-2491.	13.7	310
2	Pd-Ni electrocatalysts for efficient ethanol oxidation reaction in alkaline electrolyte. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12686-12697.	7.1	288
3	Heterostructure-Promoted Oxygen Electrocatalysis Enables Rechargeable Zinc-Air Battery with Neutral Aqueous Electrolyte. <i>Journal of the American Chemical Society</i> , 2018, 140, 17624-17631.	13.7	258
4	Mesoporous Prussian Blue Analogues: Template-Free Synthesis and Sodium-Ion Battery Applications. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3134-3137.	13.8	253
5	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7599-7605.	10.0	249
6	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C <sub>3</sub> N <sub>4</sub> . <i>ACS Catalysis</i> , 2018, 8, 8376-8385.	11.2	219
7	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO <sub>2</sub> Reduction: The Elucidation of Size and Surface Condition Effects. <i>ACS Catalysis</i> , 2016, 6, 6255-6264.	11.2	212
8	Cation exchange formation of prussian blue analogue submicroboxes for high-performance Na-ion hybrid supercapacitors. <i>Nano Energy</i> , 2017, 39, 647-653.	16.0	204
9	Electrocatalytic oxidation of glycerol on Pt/C in anion-exchange membrane fuel cell: Cogeneration of electricity and valuable chemicals. <i>Applied Catalysis B: Environmental</i> , 2012, 119-120, 40-48.	20.2	194
10	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO <sub>2</sub> nanorod surface. <i>Nature Catalysis</i> , 2021, 4, 36-45.	34.4	189
11	Phosphate-Functionalized CeO <sub>2</sub> Nanosheets for Efficient Catalytic Oxidation of Dichloromethane. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13430-13437.	10.0	128
12	Electrocatalytic oxidation of ethylene glycol (EG) on supported Pt and Au catalysts in alkaline media: Reaction pathway investigation in three-electrode cell and fuel cell reactors. <i>Applied Catalysis B: Environmental</i> , 2012, 125, 85-94.	20.2	119
13	Carbon nanotube supported platinum-palladium nanoparticles for formic acid oxidation. <i>Electrochimica Acta</i> , 2010, 55, 4217-4221.	5.2	116
14	Bimetallic Composition-Promoted Electrocatalytic Hydrodechlorination Reaction on Silver-Palladium Alloy Nanoparticles. <i>ACS Catalysis</i> , 2019, 9, 10803-10811.	11.2	115
15	Electricity Storage in Biofuels: Selective Electrocatalytic Reduction of Levulinic Acid to Valeric Acid or Valerolactone. <i>ChemSusChem</i> , 2013, 6, 674-686.	6.8	107
16	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2011, 23, 1570-1577.	6.7	106
17	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018, 348, 26-34.	12.7	104
18	Supported gold nanoparticles as anode catalyst for anion-exchange membrane-direct glycerol fuel cell (AEM-DGFC). <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9393-9401.	7.1	100

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19	Updating Biomass into Functional Carbon Material in Ionothermal Manner. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12515-12522.	8.0	98
20	Self-Templating Synthesis of Cobalt Hexacyanoferrate Hollow Structures with Superior Performance for Na-Ion Hybrid Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29496-29504.	8.0	87
21	Supported Pt, Pd and Au nanoparticle anode catalysts for anion-exchange membrane fuel cells with glycerol and crude glycerol fuels. <i>Applied Catalysis B: Environmental</i> , 2013, 136-137, 29-39.	20.2	85
22	Mesoporous graphene-like carbon sheet: high-power supercapacitor and outstanding catalyst support. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12262-12269.	10.3	85
23	Enhanced photocatalytic performance of carbon quantum dots/BiOBr composite and mechanism investigation. <i>Chinese Chemical Letters</i> , 2018, 29, 805-810.	9.0	80
24	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO <sub>2</sub> Nanorods. <i>Journal of the American Chemical Society</i> , 2019, 141, 16548-16552.	13.7	78
25	Facile synthesis of cobalt hexacyanoferrate/graphene nanocomposites for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2017, 235, 114-121.	5.2	77
26	Surface dealloyed PtCo nanoparticles supported on carbon nanotube: facile synthesis and promising application for anion exchange membrane direct crude glycerol fuel cell. <i>Green Chemistry</i> , 2013, 15, 1133.	9.0	71
27	Simultaneous Generation of Mesoxalic Acid and Electricity from Glycerol on a Gold Anode Catalyst in Anion-Exchange Membrane Fuel Cells. <i>ChemCatChem</i> , 2012, 4, 1105-1114.	3.7	70
28	Favorable Core/Shell Interface within Co <sub>2</sub> P/Pt Nanorods for Oxygen Reduction Electrocatalysis. <i>Nano Letters</i> , 2018, 18, 7870-7875.	9.1	68
29	Selective electro-oxidation of glycerol to tartronate or mesoxalate on Au nanoparticle catalyst via electrode potential tuning in anion-exchange membrane electro-catalytic flow reactor. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 871-878.	20.2	66
30	Programmable Synthesis of Multimetallic Phosphide Nanorods Mediated by Core/Shell Structure Formation and Conversion. <i>Journal of the American Chemical Society</i> , 2020, 142, 8490-8497.	13.7	65
31	Selective electro-conversion of glycerol to glycolate on carbon nanotube supported gold catalyst. <i>Green Chemistry</i> , 2012, 14, 2150.	9.0	61
32	Hierarchically Superstructured Prussian Blue Analogues: Spontaneous Assembly Synthesis and Applications as Pseudocapacitive Materials. <i>ChemSusChem</i> , 2015, 8, 177-183.	6.8	54
33	Ultra-thin PtFe-nanowires as durable electrocatalysts for fuel cells. <i>Nanotechnology</i> , 2011, 22, 015602.	2.6	50
34	Ionic liquid derived carbons as highly efficient oxygen reduction catalysts: first elucidation of pore size distribution dependent kinetics. <i>Chemical Communications</i> , 2014, 50, 1469-1471.	4.1	49
35	Carbon supported Ag nanoparticles with different particle size as cathode catalysts for anion exchange membrane direct glycerol fuel cells. <i>Renewable Energy</i> , 2014, 62, 556-562.	8.9	46
36	22% Efficiency Inverted Perovskite Photovoltaic Cell Using Cation-Doped Brookite TiO <sub>2</sub> Top Buffer. <i>Advanced Science</i> , 2020, 7, 2001285.	11.2	43

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37	Carbon supported Ag nanoparticles as high performance cathode catalyst for H <sub>2</sub> /O <sub>2</sub> anion exchange membrane fuel cell. <i>Frontiers in Chemistry</i> , 2013, 1, 16.	3.6	37
38	Calcium Sulfate Hemihydrate Nanowires: One Robust Material in Separation of Water from Water-in-Oil Emulsion. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10519-10525.	10.0	37
39	AgPd nanoparticles for electrocatalytic CO <sub>2</sub> reduction: bimetallic composition-dependent ligand and ensemble effects. <i>Nanoscale</i> , 2020, 12, 14068-14075.	5.6	36
40	Thermo-mechanical coupled 3D-FE modeling of heat rotary draw bending for large-diameter thin-walled CP-Ti tube. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 72, 1187-1203.	3.0	29
41	MgAl layered double oxide: One powerful sweeper of emulsified water and acid for oil purification. <i>Journal of Hazardous Materials</i> , 2019, 367, 658-667.	12.4	28
42	Ultrahigh surface area carbon from carbonated beverages: Combining self-templating process and in situ activation. <i>Carbon</i> , 2015, 93, 39-47.	10.3	27
43	Revealing structural evolution of PbS nanocrystal catalysts in electrochemical CO <sub>2</sub> reduction using <i>in situ</i> synchrotron radiation X-ray diffraction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23775-23780.	10.3	24
44	Electrocatalytic reduction of furfural with high selectivity to furfuryl alcohol using AgPd alloy nanoparticles. <i>Nanoscale</i> , 2021, 13, 2312-2316.	5.6	17
45	Facile synthesis of Mesoporous cobalt Hexacyanoferrate Nanocubes for High-Performance Supercapacitors. <i>Nanomaterials</i> , 2017, 7, 228.	4.1	14
46	Experimental and numerical studies on the prediction of bendability limit of QSTE340 welded tube in NC bending process. <i>Science China Technological Sciences</i> , 2012, 55, 2264-2277.	4.0	4
47	Weld characteristics and NC bending formability of QSTE340 welded tube. <i>Transactions of Tianjin University</i> , 2011, 17, 288-292.	6.4	2