Zhiyong Zhang

List of Publications by Year
in descending order

47	4,802	94433	197818
papers	citations	37 h-index	49 g-index

51	51	51	6970
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Oxygen evolution reaction over catalytic single-site Co in a well-defined brookite TiO2 nanorod surface. Nature Catalysis, 2021, 4, 36-45.	34.4	189
2	Electrocatalytic reduction of furfural with high selectivity to furfuryl alcohol using AgPd alloy nanoparticles. Nanoscale, 2021, 13, 2312-2316.	5.6	17
3	AgPd nanoparticles for electrocatalytic CO₂ reduction: bimetallic composition-dependent ligand and ensemble effects. Nanoscale, 2020, 12, 14068-14075.	5.6	36
4	22% Efficiency Inverted Perovskite Photovoltaic Cell Using Cationâ€Doped Brookite TiO₂ Top Buffer. Advanced Science, 2020, 7, 2001285.	11.2	43
5	Programmable Synthesis of Multimetallic Phosphide Nanorods Mediated by Core/Shell Structure Formation and Conversion. Journal of the American Chemical Society, 2020, 142, 8490-8497.	13.7	65
6	Generalized Synthetic Strategy for Transition-Metal-Doped Brookite-Phase TiO₂ Nanorods. Journal of the American Chemical Society, 2019, 141, 16548-16552.	13.7	78
7	Bimetallic Composition-Promoted Electrocatalytic Hydrodechlorination Reaction on Silverâ€“Palladium Alloy Nanoparticles. ACS Catalysis, 2019, 9, 10803-10811.	11.2	115
8	Revealing structural evolution of PbS nanocrystal catalysts in electrochemical CO₂ reduction using in situ synchrotron radiation X-ray diffraction. Journal of Materials Chemistry A, 2019, 7, 23775-23780.	10.3	24
9	MgAl layered double oxide: One powerful sweeper of emulsified water and acid for oil purification. Journal of Hazardous Materials, 2019, 367, 658-667.	12.4	28
10	Electrocatalytic hydrodechlorination of 2,4-dichlorophenol over palladium nanoparticles and its pH-mediated tug-of-war with hydrogen evolution. Chemical Engineering Journal, 2018, 348, 26-34.	12.7	104
11	Favorable Core/Shell Interface within Co₂P/Pt Nanorods for Oxygen Reduction Electrocatalysis. Nano Letters, 2018, 18, 7870-7875.	9.1	68
12	Heterostructure-Promoted Oxygen Electrocatalysis Enables Rechargeable Zincâ€“Air Battery with Neutral Aqueous Electrolyte. Journal of the American Chemical Society, 2018, 140, 17624-17631.	13.7	258
13	Phosphate-Functionalized CeO₂ Nanosheets for Efficient Catalytic Oxidation of Dichloromethane. Environmental Science & Technology, 2018, 52, 13430-13437.	10.0	128
14	Self-Templating Synthesis of Cobalt Hexacyanoferrate Hollow Structures with Superior Performance for Na-Ion Hybrid Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 29496-29504.	8.0	87
15	The Spatially Oriented Charge Flow and Photocatalysis Mechanism on Internal van der Waals Heterostructures Enhanced g-C₃N₄. ACS Catalysis, 2018, 8, 8376-8385.	11.2	219
16	Enhanced photocatalytic performance of carbon quantum dots/BiOBr composite and mechanism investigation. Chinese Chemical Letters, 2018, 29, 805-810.	9.0	80
17	Identification of Active Hydrogen Species on Palladium Nanoparticles for an Enhanced Electrocatalytic Hydrodechlorination of 2,4-Dichlorophenol in Water. Environmental Science & Technology, 2017, 51, 7599-7605.	10.0	249
18	Facile synthesis of cobalt hexacyanoferrate/graphene nanocomposites for high-performance supercapacitor. Electrochimica Acta, 2017, 235, 114-121.	5.2	77

#	Article	IF	Citations
19	Calcium Sulfate Hemihydrate Nanowires: One Robust Material in Separation of Water from Water-in-Oil Emulsion. Environmental Science & Technology, 2017, 51, 10519-10525.	10.0	37
20	Cation exchange formation of prussian blue analogue submicroboxes for high-performance Na-ion hybrid supercapacitors. Nano Energy, 2017, 39, 647-653.	16.0	204
21	Facile synthesis of Mesoporouscobalt Hexacyanoferrate Nanocubes for High-Performance Supercapacitors. Nanomaterials, 2017, 7, 228.	4.1	14
22	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO₂ Reduction: The Elucidation of Size and Surface Condition Effects. ACS Catalysis, 2016, 6, 6255-6264.	11.2	212
23	Enhanced Bifunctional Oxygen Catalysis in Strained LaNiO₃ Perovskites. Journal of the American Chemical Society, 2016, 138, 2488-2491.	13.7	310
24	Ultrahigh surface area carbon from carbonated beverages: Combining self-templating process and in situ activation. Carbon, 2015, 93, 39-47.	10.3	27
25	Hierarchically Superstructured Prussian Blue Analogues: Spontaneous Assembly Synthesis and Applications as Pseudocapacitive Materials. ChemSusChem, 2015, 8, 177-183.	6.8	54
26	Carbon supported Ag nanoparticles with different particle size as cathode catalysts for anion exchange membrane direct glycerol fuel cells. Renewable Energy, 2014, 62, 556-562.	8.9	46
27	Mesoporous Prussian Blue Analogues: Templateâ€Free Synthesis and Sodiumâ€Ion Battery Applications. Angewandte Chemie - International Edition, 2014, 53, 3134-3137.	13.8	253
28	Updating Biomass into Functional Carbon Material in Ionothermal Manner. ACS Applied Materials & Interfaces, 2014, 6, 12515-12522.	8.0	98
29	Mesoporous graphene-like carbon sheet: high-power supercapacitor and outstanding catalyst support. Journal of Materials Chemistry A, 2014, 2, 12262-12269.	10.3	85
30	Ionic liquid derived carbons as highly efficient oxygen reduction catalysts: first elucidation of pore size distribution dependent kinetics. Chemical Communications, 2014, 50, 1469-1471.	4.1	49
31	Thermo-mechanical coupled 3D-FE modeling of heat rotary draw bending for large-diameter thin-walled CP-Ti tube. International Journal of Advanced Manufacturing Technology, 2014, 72, 1187-1203.	3.0	29
32	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. Applied Catalysis B: Environmental, 2014, 147, 871-878.	20.2	66
33	Surface dealloyed PtCo nanoparticles supported on carbon nanotube: facile synthesis and promising application for anion exchange membrane direct crude glycerol fuel cell. Green Chemistry, 2013, 15, 1133.	9.0	71
34	Electricity Storage in Biofuels: Selective Electrocatalytic Reduction of Levulinic Acid to Valeric Acid or Î³â€Valerolactone. ChemSusChem, 2013, 6, 674-686.	6.8	107
35	Supported Pt, Pd and Au nanoparticle anode catalysts for anion-exchange membrane fuel cells with glycerol and crude glycerol fuels. Applied Catalysis B: Environmental, 2013, 136-137, 29-39.	20.2	85
36	Carbon supported Ag nanoparticles as high performance cathode catalyst for H2/O2 anion exchange membrane fuel cell. Frontiers in Chemistry, 2013, 1, 16.	3.6	37

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37	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. Applied Catalysis B: Environmental, 2012, 125, 85-94.	20.2	119
38	Selective electro-conversion of glycerol to glycolate on carbon nanotube supported gold catalyst. Green Chemistry, 2012, 14, 2150.	9.0	61
39	Simultaneous Generation of Mesoxalic Acid and Electricity from Glycerol on a Gold Anode Catalyst in Anionâ€Exchange Membrane Fuel Cells. ChemCatChem, 2012, 4, 1105-1114.	3.7	70
40	Experimental and numerical studies on the prediction of bendability limit of QSTE340 welded tube in NC bending process. Science China Technological Sciences, 2012, 55, 2264-2277.	4.0	4
41	Electrocatalytic oxidation of glycerol on Pt/C in anion-exchange membrane fuel cell: Cogeneration of electricity and valuable chemicals. Applied Catalysis B: Environmental, 2012, 119-120, 40-48.	20.2	194
42	Supported gold nanoparticles as anode catalyst for anion-exchange membrane-direct glycerol fuel cell (AEM-DGFC). International Journal of Hydrogen Energy, 2012, 37, 9393-9401.	7.1	100
43	Preparation and Characterization of PdFe Nanoleaves as Electrocatalysts for Oxygen Reduction Reaction. Chemistry of Materials, 2011, 23, 1570-1577.	6.7	106
44	Pdâ€“Ni electrocatalysts for efficient ethanol oxidation reaction in alkaline electrolyte. International Journal of Hydrogen Energy, 2011, 36, 12686-12697.	7.1	288
45	Weld characteristics and NC bending formability of QSTE340 welded tube. Transactions of Tianjin University, 2011, 17, 288-292.	6.4	2
46	Ultra-thin PtFe-nanowires as durable electrocatalysts for fuel cells. Nanotechnology, 2011, 22, 015602.	2.6	50
47	Carbon nanotube supported platinumâ€“palladium nanoparticles for formic acid oxidation. Electrochimica Acta, 2010, 55, 4217-4221.	5.2	116