

Yi Peng

List of Publications by Year in descending order

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49
papers

2,836
citations

218381

26
h-index

189595

50
g-index

55
all docs

55
docs citations

55
times ranked

4695
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon-Supported Single Atom Catalysts for Electrochemical Energy Conversion and Storage. <i>Advanced Materials</i> , 2018, 30, e1801995.	11.1	479
2	Ruthenium atomically dispersed in carbon outperforms platinum toward hydrogen evolution in alkaline media. <i>Nature Communications</i> , 2019, 10, 631.	5.8	423
3	A review on bidirectional analogies between the photocatalysis and antibacterial properties of ZnO. <i>Journal of Alloys and Compounds</i> , 2019, 783, 898-918.	2.8	229
4	Hydrogen evolution reaction catalyzed by ruthenium ion-complexed graphitic carbon nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18261-18269.	5.2	136
5	Photo-enhanced antibacterial activity of ZnO/graphene quantum dot nanocomposites. <i>Nanoscale</i> , 2018, 10, 158-166.	2.8	132
6	Graphene oxide-supported zinc cobalt oxides as effective cathode catalysts for microbial fuel cell: High catalytic activity and inhibition of biofilm formation. <i>Nano Energy</i> , 2019, 57, 811-819.	8.2	94
7	Nitrogen and Iron-Codoped Carbon Hollow Nanotubes as High-Performance Catalysts toward Oxygen Reduction Reaction: A Combined Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2017, 29, 5617-5628.	3.2	92
8	Ruthenium Ion-Complexed Graphitic Carbon Nitride Nanosheets Supported on Reduced Graphene Oxide as High-Performance Catalysts for Electrochemical Hydrogen Evolution. <i>ChemSusChem</i> , 2018, 11, 130-136.	3.6	76
9	Electrocatalysts based on metal@carbon core@shell nanocomposites: An Overview. <i>Green Energy and Environment</i> , 2018, 3, 335-351.	4.7	75
10	Aptamer-gold nanoparticle-based colorimetric assay for the sensitive detection of thrombin. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 818-825.	4.0	70
11	A three-dimensional nitrogen-doped graphene aerogel-activated carbon composite catalyst that enables low-cost microfluidic microbial fuel cells with superior performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15913-15919.	5.2	68
12	Organically Capped Iridium Nanoparticles as High-Performance Bifunctional Electrocatalysts for Full Water Splitting in Both Acidic and Alkaline Media: Impacts of Metal-Ligand Interfacial Interactions. <i>ACS Catalysis</i> , 2021, 11, 1179-1188.	5.5	65
13	Ruthenium Ion-Complexed Carbon Nitride Nanosheets with Peroxidase-like Activity as a Ratiometric Fluorescence Probe for the Detection of Hydrogen Peroxide and Glucose. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29072-29077.	4.0	64
14	Liquid-Crystal Biosensor Based on Nickel-Nanosphere-Induced Homeotropic Alignment for the Amplified Detection of Thrombin. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23418-23422.	4.0	63
15	Impacts of interfacial charge transfer on nanoparticle electrocatalytic activity towards oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9336-9348.	1.3	49
16	Atomic Dispersion and Surface Enrichment of Palladium in Nitrogen-Doped Porous Carbon Cages Lead to High-Performance Electrocatalytic Reduction of Oxygen. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17641-17650.	4.0	42
17	Air Cathode Catalysts of Microbial Fuel Cell by Nitrogen-Doped Carbon Aerogels. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3917-3924.	3.2	38
18	Ternary Fe ₃ O ₄ @C@PANI nanocomposites as high-performance supercapacitor electrode materials. <i>Journal of Materials Science</i> , 2018, 53, 12322-12333.	1.7	37

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19	Nanocomposites Based on Ruthenium Nanoparticles Supported on Cobalt and Nitrogen-Codoped Graphene Nanosheets as Bifunctional Catalysts for Electrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46912-46919.	4.0	37
20	Gold core@silver semishell Janus nanoparticles prepared by interfacial etching. <i>Nanoscale</i> , 2016, 8, 14565-14572.	2.8	33
21	Oxygen Reduction Reaction Catalyzed by Black-Phosphorus-Supported Metal Nanoparticles: Impacts of Interfacial Charge Transfer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24707-24714.	4.0	33
22	One-pot synthesis of Au@Pt star-like nanocrystals and their enhanced electrocatalytic performance for formic acid and ethanol oxidation. <i>Nano Research</i> , 2018, 11, 3222-3232.	5.8	31
23	Sulfur impregnation in polypyrrole-modified MnO ₂ nanotubes: efficient polysulfide adsorption for improved lithium-sulfur battery performance. <i>Nanoscale</i> , 2019, 11, 10097-10105.	2.8	31
24	Hollow carbon spheres codoped with nitrogen and iron as effective electrocatalysts for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2020, 450, 227659.	4.0	30
25	Cobalt oxides nanoparticles supported on nitrogen-doped carbon nanotubes as high-efficiency cathode catalysts for microbial fuel cells. <i>Inorganic Chemistry Communication</i> , 2019, 105, 69-75.	1.8	29
26	Synthesis of concave gold nanocuboids with high-index facets and their enhanced catalytic activity. <i>Chemical Communications</i> , 2015, 51, 11591-11594.	2.2	24
27	Thermoswitchable Janus Gold Nanoparticles with Stimuli-Responsive Hydrophilic Polymer Brushes. <i>Langmuir</i> , 2016, 32, 4297-4304.	1.6	19
28	A universal electrochemical sensing system for small biomolecules using target-mediated sticky ends-based ligation-rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2014, 57, 103-109.	5.3	18
29	Platinum nanoparticles encapsulated in nitrogen-doped graphene quantum dots: Enhanced electrocatalytic reduction of oxygen by nitrogen dopants. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29192-29200.	3.8	18
30	Point of Anchor: Impacts on Interfacial Charge Transfer of Metal Oxide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2018, 140, 15290-15299.	6.6	18
31	Signal-On Architecture for Electrochemical Aptasensors Based on Multiple Ion Channels. <i>Analytical Chemistry</i> , 2012, 84, 10554-10559.	3.2	14
32	Label-free picomolar detection of Pb ²⁺ using atypical icosahedra gold nanoparticles and rolling circle amplification. <i>Biosensors and Bioelectronics</i> , 2014, 59, 314-320.	5.3	13
33	Fabrication and application of hollow ZnO nanospheres in antimicrobial casein-based coatings. <i>International Journal of Applied Ceramic Technology</i> , 2017, 14, 128-134.	1.1	13
34	Silver Nanocubes as Electrochemical Labels for Bioassays. <i>ACS Sensors</i> , 2021, 6, 1111-1119.	4.0	13
35	Synthesis of Au@Pt bimetallic nanoparticles with concave Au nanocuboids as seeds and their enhanced electrocatalytic properties in the ethanol oxidation reaction. <i>Nanotechnology</i> , 2015, 26, 505401.	1.3	12
36	Photo-Gated Intervalence Charge Transfer of Ethynylferrocene Functionalized Titanium Dioxide Nanoparticles. <i>Electrochimica Acta</i> , 2016, 211, 704-710.	2.6	10

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37	Effect of Serum on Electrochemical Detection of Bioassays Having Ag Nanoparticle Labels. ACS Sensors, 2021, 6, 1956-1962.	4.0	7
38	Dual-Shaped Silver Nanoparticle Labels for Electrochemical Detection of Bioassays. ACS Applied Nano Materials, 2021, 4, 10764-10770.	2.4	7
39	Single Atom Catalysts: Carbon-Supported Single Atom Catalysts for Electrochemical Energy Conversion and Storage(Adv. Mater. 48/2018). Advanced Materials, 2018, 30, 1870370.	11.1	6
40	Paper Biosensor for the Detection of NT-proBNP Using Silver Nanodisks as Electrochemical Labels. Nanomaterials, 2022, 12, 2254.	1.9	5
41	Intervalence Charge Transfer Mediated by Silicon Nanoparticles. ChemElectroChem, 2016, 3, 1219-1224.	1.7	4
42	Intraparticle charge delocalization through conjugated metal-ligand interfacial bonds: Effects of metal d electrons. Chinese Journal of Chemical Physics, 2018, 31, 433-438.	0.6	4
43	Janus Nanoparticle Emulsions as Chiral Nanoreactors for Enantiomerically Selective Ligand Exchange. Particle and Particle Systems Characterization, 2019, 36, 1800564.	1.2	4
44	Ruthenium Ion-Complexed Graphitic Carbon Nitride Nanosheets Supported on Reduced Graphene Oxide as High-Performance Catalysts for Electrochemical Hydrogen Evolution. ChemSusChem, 2018, 11, 4-4.	3.6	3
45	Structural Engineering of Semiconductor Nanoparticles by Conjugated Interfacial Bonds. Chemical Record, 2020, 20, 41-50.	2.9	3
46	Ruthenium nanoparticles cofunctionalized with acetylene derivatives of coumarin and perylene: dyad-like intraparticle charge transfer. Journal of Nanoparticle Research, 2018, 20, 1.	0.8	2
47	One-pot synthesis affords perfectly six-fold symmetrical Au microsnowflakes for excellent electrochemical biosensing and surface-enhanced Raman scattering assays. RSC Advances, 2015, 5, 16074-16081.	1.7	1
48	Silver-Copper Hollow Nanoshells as Phase-Transfer Reagents and Catalysts in the Reduction of 4-Nitroaniline. Particle and Particle Systems Characterization, 2017, 34, 1600358.	1.2	0
49	The 2018 Joseph W. Richards Summer Research Fellowship – Summary Report: The Effect of Mixed Ligands on the Oxygen Reduction Reaction Electrocatalytic Performance of Platinum Nanoparticles. Electrochemical Society Interface, 2018, 27, 83-84.	0.3	0