

Shengchun Yang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,335
citations

201575

27
h-index

206029

48
g-index

52
all docs

52
docs citations

52
times ranked

3728
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of colloidal metal and metal alloy nanoparticles for electrochemical energy applications. <i>Chemical Society Reviews</i> , 2013, 42, 2880-2904.	18.7	499
2	Urchin-like NiCo ₂ O ₄ hollow microspheres and FeSe ₂ micro-snowflakes for flexible solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5568-5576.	5.2	144
3	Constructing ultrathin CoP nanomeshes by Er-doping for highly efficient bifunctional electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5769-5778.	5.2	128
4	Electrochemically Modifying the Electronic Structure of IrO ₂ Nanoparticles for Overall Electrochemical Water Splitting with Extensive Adaptability. <i>Advanced Energy Materials</i> , 2020, 10, 2001600.	10.2	123
5	Mesoporous nano/micro noble metal particles: synthesis and applications. <i>Nanoscale</i> , 2014, 6, 4438-4457.	2.8	106
6	Understanding the doping effect on hydrogen evolution activity of transition-metal phosphides: Modeled with Ni ₂ P. <i>Applied Catalysis B: Environmental</i> , 2021, 295, 120283.	10.8	90
7	Orienting the charge transfer path of type-II heterojunction for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117853.	10.8	65
8	A green chemical approach for preparation of PtxCu _y nanoparticles with a concave surface in molten salt for methanol and formic acid oxidation reactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 4780.	6.7	58
9	Pt-Frame@Ni <i>quasi</i> Core-Shell Concave Octahedral PtNi ₃ Bimetallic Nanocrystals for Electrocatalytic Methanol Oxidation and Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 27938-27945.	1.5	58
10	Structural and Electronic Stabilization of PtNi Concave Octahedral Nanoparticles by P Doping for Oxygen Reduction Reaction in Alkaline Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27009-27018.	4.0	57
11	Tuning Surface Properties of Low Dimensional Materials via Strain Engineering. <i>Small</i> , 2016, 12, 4028-4047.	5.2	56
12	Improving the plasmonic efficiency of the Au nanorod-semiconductor photocatalysis toward water reduction by constructing a unique hot-dog nanostructure. <i>Nano Energy</i> , 2017, 33, 469-475.	8.2	55
13	Halide ion-induced formation of single crystalline mesoporous PtPd bimetallic nanoparticles with hollow interiors for electrochemical methanol and ethanol oxidation reaction. <i>Nano Research</i> , 2017, 10, 1064-1077.	5.8	51
14	Synergistic Effect Induced High Photothermal Performance of Au Nanorod@Cu ₇ S ₄ Yolka-Shell Nanooctahedron Particles. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24533-24541.	1.5	49
15	CO Oxidation over Strained Pt(100) Surface: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15500-15505.	1.5	48
16	Strain and Ligand Effects on CO ₂ Reduction Reactions over Cu-Metal Heterostructure Catalysts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22139-22146.	1.5	46
17	Improving the electrocatalytic property of CoP for hydrogen evolution by constructing porous ternary CeO ₂ -CoP-C hybrid nanostructure via ionic exchange of MOF. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 20372-20381.	3.8	45
18	Surface-engineered mesoporous Pt nanodendrites with Ni dopant for highly enhanced catalytic performance in hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12800-12807.	5.2	45

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19	Neighboring effect induced by V and Cr doping in FeCoP nanoarrays for the hydrogen evolution reaction with Pt-like performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1184-1192.	5.2	45
20	N-doped CNT as electron transport promoter by bridging CoP and carbon cloth toward enhanced alkaline hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 430, 132824.	6.6	42
21	Phosphorus and Yttrium Codoped Co(OH)F Nanoarray as Highly Efficient and Bifunctional Electrocatalysts for Overall Water Splitting. <i>Small</i> , 2019, 15, e1904105.	5.2	40
22	Boosting photocatalytic hydrogen evolution of g-C ₃ N ₄ catalyst via lowering the Fermi level of co-catalyst. <i>Nano Research</i> , 2022, 15, 1128-1134.	5.8	38
23	Electrochemical formation of PtRu bimetallic nanoparticles for highly efficient and pH-universal hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2090-2098.	5.2	33
24	Control of manganese dioxide crystallographic structure in the redox reaction between graphene and permanganate ions and their electrochemical performance. <i>RSC Advances</i> , 2015, 5, 21978-21987.	1.7	32
25	Fe ₂ O ₃ /NiO Interface for the Electrochemical Oxygen Evolution in Seawater and Domestic Sewage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37152-37161.	4.0	32
26	Porous platinum mesoflowers with enhanced activity for methanol oxidation reaction. <i>Journal of Solid State Chemistry</i> , 2012, 191, 239-245.	1.4	31
27	Tailoring the electronic structure by constructing the heterointerface of RuO ₂ @NiO for overall water splitting with ultralow overpotential and extra-long lifetime. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18945-18954.	5.2	29
28	Localized surface plasmon enhanced electrocatalytic methanol oxidation of AgPt bimetallic nanoparticles with an ultra-thin shell. <i>Chemical Communications</i> , 2019, 55, 3943-3946.	2.2	24
29	Organics- and Surfactant-Free Molten Salt Medium Controlled Synthesis of Pt-M (M = Cu and Pd) Bi- and Trimetallic Nanocubes and Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4205-4213.	3.2	23
30	Lattice-mismatch-induced growth of ultrathin Pt shells with high-index facets for boosting oxygen reduction catalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16477-16486.	5.2	21
31	Graphene induced formation of single crystal Pt nanosheets through 2-dimensional aggregation and sintering of nanoparticles in molten salt medium. <i>Carbon</i> , 2014, 77, 1123-1131.	5.4	19
32	Intrinsic insight on localized surface plasmon resonance enhanced methanol electro-oxidation over a Au@AgPt hollow urchin-like nanostructure. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6638-6646.	5.2	19
33	Recent Progress in Perovskite-Based Reversible Photon-Electricity Conversion Devices. <i>Advanced Functional Materials</i> , 2022, 32, 2108926.	7.8	18
34	In situ chemical vapor reaction in molten salts for preparation of platinum nanosheets via bubble breakage. <i>Journal of Materials Chemistry</i> , 2012, 22, 12046.	6.7	16
35	Synthesis of porous gold nanoparticle/MoS ₂ nanocomposites based on redox reactions. <i>RSC Advances</i> , 2015, 5, 86558-86563.	1.7	16
36	Modification of Carbon Nanotubes via Birch Reaction for Enhanced HER Catalyst by Constructing Pearl Necklace-Like NiCo ₂ P ₂ @CNT Composite. <i>Small</i> , 2018, 14, e1804388.	5.2	15

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37	Morphological transition of gold nanostructures induced by continuous ultraviolet irradiation. <i>Nanotechnology</i> , 2006, 17, 5639-5643.	1.3	14
38	The electric-dipole effect of Pt-Ni for enhanced catalytic dehydrogenation of ammonia borane. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156253.	2.8	14
39	Reaction mechanism, norbornene and ligand effects, and origins of meta-selectivity of Pd/norbornene-catalyzed C-H activation. <i>Chemical Science</i> , 2020, 11, 113-125.	3.7	11
40	2D hydrogenated boride as a reductant and stabilizer for <i>in situ</i> synthesis of ultrafine and surfactant-free carbon supported noble metal electrocatalysts with enhanced activity and stability. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18856-18862.	5.2	11
41	Synthesis of surfactant-free Pt concave nanoparticles in a freshly-made or recycled molten salt. <i>Green Chemistry</i> , 2012, 14, 3197.	4.6	10
42	Highly surface-roughened caterpillar-like Au/Ag nanotubes for sensitive and reproducible substrates for surface enhanced Raman spectroscopy. <i>RSC Advances</i> , 2014, 4, 45856-45861.	1.7	9
43	Scalable approach to high coverages on oxides via iterative training of a machine learning algorithm. <i>ChemCatChem</i> , 2020, 12, 4317-4330.	1.8	9
44	Applications of 2D MXenes for Electrochemical Energy Conversion and Storage. <i>Energies</i> , 2021, 14, 8183.	1.6	9
45	Coadsorption of CO and O over strained metal surfaces. <i>Chemical Physics Letters</i> , 2019, 722, 18-25.	1.2	8
46	In situ sodium chloride template synthesis of cobalt oxide hollow octahedra for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 23326-23330.	1.7	5
47	Molten salt medium synthesis of wormlike platinum silver nanotubes without any organic surfactant or solvent for methanol and formic acid oxidation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31170-31176.	1.3	5
48	Synthesis and electrocatalytic performance of ultrathin noble metal nanosheets. <i>CrystEngComm</i> , 2022, 24, 1319-1333.	1.3	5
49	Boosting the hydrogen evolution reaction of N-C@CoP through an N atom induced p-d orbital coupling. <i>Chemical Engineering Journal</i> , 2022, 446, 137132.	6.6	5
50	Laying down of gold nanorods monolayers on solid surfaces for surface enhanced Raman spectroscopy applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26822-26828.	1.3	3