Shengchun Yang

List of Publications by Year
in descending order

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	Boosting photocatalytic hydrogen evolution of g-C3N4 catalyst via lowering the Fermi level of co-catalyst. Nano Research, 2022, 15, 1128-1134.	5.8	38
2	N-doped CNT as electron transport promoter by bridging CoP and carbon cloth toward enhanced alkaline hydrogen evolution. Chemical Engineering Journal, 2022, 430, 132824.	6.6	42
3	Recent Progress in Perovskiteâ€Based Reversible Photonâ€“Electricity Conversion Devices. Advanced Functional Materials, 2022, 32, 2108926.	7.8	18
4	Synthesis and electrocatalytic performance of ultrathin noble metal nanosheets. CrystEngComm, 2022, 24, 1319-1333.	1.3	5
5	Boosting the hydrogen evolution reaction of N-C@CoP through an N atom induced p-d orbital coupling. Chemical Engineering Journal, 2022, 446, 137132.	6.6	5
6	Fe₂O₃/NiO Interface for the Electrochemical Oxygen Evolution in Seawater and Domestic Sewage. ACS Applied Materials & Interfaces, 2021, 13, 37152-37161.	4.0	32
7	Understanding the doping effect on hydrogen evolution activity of transition-metal phosphides: Modeled with Ni2P. Applied Catalysis B: Environmental, 2021, 295, 120283.	10.8	90
8	Laying down of gold nanorods monolayers on solid surfaces for surface enhanced Raman spectroscopy applications. Physical Chemistry Chemical Physics, 2021, 23, 26822-26828.	1.3	3
9	Applications of 2D MXenes for Electrochemical Energy Conversion and Storage. Energies, 2021, 14, 8183.	1.6	9
10	Reaction mechanism, norbornene and ligand effects, and origins of meta-selectivity of Pd/norbornene-catalyzed Câ€“H activation. Chemical Science, 2020, 11, 113-125.	3.7	11
11	Neighboring effect induced by V and Cr doping in FeCoP nanoarrays for the hydrogen evolution reaction with Pt-like performance. Journal of Materials Chemistry A, 2020, 8, 1184-1192.	5.2	45
12	Electrochemical formation of PtRu bimetallic nanoparticles for highly efficient and pH-universal hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 2090-2098.	5.2	33
13	Lattice-mismatch-induced growth of ultrathin Pt shells with high-index facets for boosting oxygen reduction catalysis. Journal of Materials Chemistry A, 2020, 8, 16477-16486.	5.2	21
14	2D hydrogenated boride as a reductant and stabilizer for in situ synthesis of ultrafine and surfactant-free carbon supported noble metal electrocatalysts with enhanced activity and stability. Journal of Materials Chemistry A, 2020, 8, 18856-18862.	5.2	11
15	Tailoring the electronic structure by constructing the heterointerface of RuO₂â€“NiO for overall water splitting with ultralow overpotential and extra-long lifetime. Journal of Materials Chemistry A, 2020, 8, 18945-18954.	5.2	29
16	Electrochemically Modifying the Electronic Structure of IrO₂ Nanoparticles for Overall Electrochemical Water Splitting with Extensive Adaptability. Advanced Energy Materials, 2020, 10, 2001600.	10.2	123
17	Intrinsic insight on localized surface plasmon resonance enhanced methanol electro-oxidation over a Au@AgPt hollow urchin-like nanostructure. Journal of Materials Chemistry A, 2020, 8, 6638-6646.	5.2	19
18	The â€œelectric-dipoleâ€•effect of Ptâ€“Ni for enhanced catalytic dehydrogenation of ammonia borane. Journal of Alloys and Compounds, 2020, 844, 156253.	2.8	14

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19	Scalable approach to high coverages on oxides via iterative training of a machineâ€learning algorithm. ChemCatChem, 2020, 12, 4317-4330.	1.8	9
20	Phosphorus and Yttrium Codoped Co(OH)F Nanoarray as Highly Efficient and Bifunctional Electrocatalysts for Overall Water Splitting. Small, 2019, 15, e1904105.	5.2	40
21	Orienting the charge transfer path of type-II heterojunction for photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 256, 117853.	10.8	65
22	Surface-engineered mesoporous Pt nanodendrites with Ni dopant for highly enhanced catalytic performance in hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 12800-12807.	5.2	45
23	Localized surface plasmon enhanced electrocatalytic methanol oxidation of AgPt bimetallic nanoparticles with an ultra-thin shell. Chemical Communications, 2019, 55, 3943-3946.	2.2	24
24	Coadsorption of CO and O over strained metal surfaces. Chemical Physics Letters, 2019, 722, 18-25.	1.2	8
25	Constructing ultrathin CoP nanomeshes by Er-doping for highly efficient bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 5769-5778.	5.2	128
26	Modification of Carbon Nanotubes via Birch Reaction for Enhanced HER Catalyst by Constructing Pearl Necklaceâ€Like NiCo₂P₂â€“CNT Composite. Small, 2018, 14, e1804388.	5.2	15
27	Improving the electrocatalytic property of CoP for hydrogen evolution by constructing porous ternary CeO2-CoP-C hybrid nanostructure via ionic exchange of MOF. International Journal of Hydrogen Energy, 2018, 43, 20372-20381.	3.8	45
28	Structural and Electronic Stabilization of PtNi Concave Octahedral Nanoparticles by P Doping for Oxygen Reduction Reaction in Alkaline Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 27009-27018.	4.0	57
29	Improving the plasmonic efficiency of the Au nanorod-semiconductor photocatalysis toward water reduction by constructing a unique hot-dog nanostructure. Nano Energy, 2017, 33, 469-475.	8.2	55
30	Urchin-like NiCo₂O₄ hollow microspheres and FeSe₂ micro-snowflakes for flexible solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 5568-5576.	5.2	144
31	Organics- and Surfactant-Free Molten Salt Medium Controlled Synthesis of Pt-M (M = Cu and Pd) Bi- and Trimetallic Nanocubes and Nanosheets. ACS Sustainable Chemistry and Engineering, 2017, 5, 4205-4213.	3.2	23
32	Halide ion-induced formation of single crystalline mesoporous PtPd bimetallic nanoparticles with hollow interiors for electrochemical methanol and ethanol oxidation reaction. Nano Research, 2017, 10, 1064-1077.	5.8	51
33	Strain and Ligand Effects on CO₂Reduction Reactions over Cuâ€“Metal Heterostructure Catalysts. Journal of Physical Chemistry C, 2017, 121, 22139-22146.	1.5	46
34	Tuning Surface Properties of Low Dimensional Materials via Strain Engineering. Small, 2016, 12, 4028-4047.	5.2	56
35	Synergistic Effect Induced High Photothermal Performance of Au Nanorod@Cu₇S₄ Yolkâ€“Shell Nanooctahedron Particles. Journal of Physical Chemistry C, 2016, 120, 24533-24541.	1.5	49
36	In situ sodium chloride template synthesis of cobalt oxide hollow octahedra for lithium-ion batteries. RSC Advances, 2015, 5, 23326-23330.	1.7	5

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37	Pt-Frame@Ni quasi Coreâ€“Shell Concave Octahedral PtNi₃ Bimetallic Nanocrystals for Electrocatalytic Methanol Oxidation and Hydrogen Evolution. Journal of Physical Chemistry C, 2015, 119, 27938-27945.	1.5	58
38	Molten salt medium synthesis of wormlike platinum silver nanotubes without any organic surfactant or solvent for methanol and formic acid oxidation. Physical Chemistry Chemical Physics, 2015, 17, 31170-31176.	1.3	5
39	Control of manganese dioxide crystallographic structure in the redox reaction between graphene and permanganate ions and their electrochemical performance. RSC Advances, 2015, 5, 21978-21987.	1.7	32
40	CO Oxidation over Strained Pt(100) Surface: A DFT Study. Journal of Physical Chemistry C, 2015, 119, 15500-15505.	1.5	48
41	Synthesis of porous gold nanoparticle/MoS₂ nanocomposites based on redox reactions. RSC Advances, 2015, 5, 86558-86563.	1.7	16
42	Mesoporous nano/micro noble metal particles: synthesis and applications. Nanoscale, 2014, 6, 4438-4457.	2.8	106
43	Highly surface-roughened caterpillar-like Au/Ag nanotubes for sensitive and reproducible substrates for surface enhanced Raman spectroscopy. RSC Advances, 2014, 4, 45856-45861.	1.7	9
44	Graphene induced formation of single crystal Pt nanosheets through 2-dimensional aggregation and sintering of nanoparticles in molten salt medium. Carbon, 2014, 77, 1123-1131.	5.4	19
45	Synthesis of colloidal metal and metal alloy nanoparticles for electrochemical energy applications. Chemical Society Reviews, 2013, 42, 2880-2904.	18.7	499
46	Synthesis of surfactant-free Pt concave nanoparticles in a freshly-made or recycled molten salt. Green Chemistry, 2012, 14, 3197.	4.6	10
47	In situ chemical vapor reaction in molten salts for preparation of platinum nanosheets via bubble breakage. Journal of Materials Chemistry, 2012, 22, 12046.	6.7	16
48	Porous platinum mesoflowers with enhanced activity for methanol oxidation reaction. Journal of Solid State Chemistry, 2012, 191, 239-245.	1.4	31
49	A green chemical approach for preparation of PtxCuy nanoparticles with a concave surface in molten salt for methanol and formic acid oxidation reactions. Journal of Materials Chemistry, 2012, 22, 4780.	6.7	58
50	Morphological transition of gold nanostructures induced by continuous ultraviolet irradiation. Nanotechnology, 2006, 17, 5639-5643.	1.3	14