

Fan Liao

List of Publications by Year in descending order

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64
papers

2,293
citations

236612

25
h-index

223531

46
g-index

64
all docs

64
docs citations

64
times ranked

3208
citing authors

#	ARTICLE	IF	CITATIONS
1	Rh/RhO _x nanosheets as pH-universal bifunctional catalysts for hydrazine oxidation and hydrogen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1891-1898.	5.2	25
2	Interfacial engineered PdRu/C with robust poison tolerance for oxygen reduction reaction and zinc-air battery. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163112.	2.8	3
3	Boosting electrocatalytic selectivity in carbon dioxide reduction: The fundamental role of dispersing gold nanoparticles on silicon nanowires. <i>Chinese Chemical Letters</i> , 2022, 33, 4380-4384.	4.8	5
4	Carbon dots bridge NiO and Mn ₂ O ₃ as highly efficient bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Applied Surface Science</i> , 2022, 596, 153642.	3.1	8
5	Diluted silicon promoting Pd/Pt catalysts for oxygen reduction reaction with strong anti-poisoning effect. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121549.	10.8	15
6	ZIF/Co-C ₃ N ₄ with enhanced electrocatalytic reduction of carbon dioxide activity by the photoactivation process. <i>Nanoscale</i> , 2021, 13, 14089-14095.	2.8	7
7	A metal-free photocatalyst for highly efficient hydrogen peroxide photoproduction in real seawater. <i>Nature Communications</i> , 2021, 12, 483.	5.8	193
8	Palladium-Copper Bimetallic Nanoparticles Loaded on Carbon Black for Oxygen Reduction and Zinc-Air Batteries. <i>ACS Applied Nano Materials</i> , 2021, 4, 1478-1484.	2.4	12
9	Rod-shaped δ -MnO ₂ electrocatalysts with high Mn ³⁺ content for oxygen reduction reaction and Zn-air battery. <i>Journal of Alloys and Compounds</i> , 2021, 860, 158427.	2.8	17
10	In-situ photovoltage transients assisted catalytic study on H ₂ O ₂ photoproduction over organic molecules modified carbon nitride photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119817.	10.8	42
11	Surface fluorinated nickel-graphene nanocomposites for high-efficiency methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27138-27148.	3.8	5
12	Electric field polarized sulfonated carbon dots/NiFe layered double hydroxide as highly efficient electrocatalyst for oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 420, 129690.	6.6	16
13	Carbon dots modified WO ₂ -Na _x WO ₃ composite as UV-Vis-NIR broad spectrum-driven photocatalyst for overall water splitting. <i>Catalysis Today</i> , 2020, 340, 152-160.	2.2	14
14	Sulfhydryl-functionalized carbon dots modified ball cactus-like Au composites facilitating the electrocatalytic ethanol oxidation through adsorption effect. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 925-933.	1.5	6
15	Engineering CoN/Ni(OH) ₂ heterostructures with improved intrinsic interfacial charge transfer toward simultaneous hydrogen generation and urea-rich wastewater purification. <i>Journal of Power Sources</i> , 2020, 480, 229151.	4.0	29
16	Highly efficient water splitting over a RuO ₂ /F-doped graphene electrocatalyst with ultra-low ruthenium content. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2188-2194.	3.0	29
17	Functionalization of metal oxides with thiocyanate groups: A general strategy for boosting oxygen evolution reaction in neutral media. <i>Nano Energy</i> , 2020, 76, 105079.	8.2	16
18	Rhodium/graphitic-carbon-nitride composite electrocatalyst facilitates efficient hydrogen evolution in acidic and alkaline electrolytes. <i>Journal of Colloid and Interface Science</i> , 2020, 571, 30-37.	5.0	14

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19	Strain engineering for Janus palladium-gold bimetallic nanoparticles: Enhanced electrocatalytic performance for oxygen reduction reaction and zinc-air battery. <i>Chemical Engineering Journal</i> , 2020, 389, 124240.	6.6	40
20	CoWO ₄ /CoP ₂ nanoflakes grown on carbon nanotube film as an efficient electrocatalyst for water splitting in alkaline media. <i>Applied Surface Science</i> , 2020, 514, 145919.	3.1	21
21	One-Step Direct Fixation of Atmospheric CO ₂ by Si-H Surface in Solution. <i>IScience</i> , 2020, 23, 100806.	1.9	3
22	Effective PtAu nanowire network catalysts with ultralow Pt content for formic acid oxidation and methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 16071-16079.	3.8	27
23	A function-switchable metal-free photocatalyst for the efficient and selective production of hydrogen and hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11773-11780.	5.2	42
24	Carbon dots-Pt modified polyaniline nanosheet grown on carbon cloth as stable and high-efficient electrocatalyst for hydrogen evolution in pH-universal electrolyte. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117905.	10.8	74
25	Fluorescent-stable and water-soluble two-component-modified silicon quantum dots and their application for bioimaging. <i>Journal of Luminescence</i> , 2019, 215, 116644.	1.5	13
26	Mesocrystal PtRu supported on reduced graphene oxide as catalysts for methanol oxidation reaction. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 729-736.	5.0	22
27	Approaching the Volcano Top: Iridium/Silicon Nanocomposites as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2019, 13, 2786-2794.	7.3	106
28	Silicon nanowires decorated with gold nanoparticles <i>via in situ</i> reduction for photoacoustic imaging-guided photothermal cancer therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 4393-4401.	2.9	15
29	Silicon monoxide assisted synthesis of Ru modified carbon nanocomposites as high mass activity electrocatalysts for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11817-11823.	3.8	16
30	Quasi-layer Co ₂ P-polarized Cu ₃ P nanocomposites with enhanced intrinsic interfacial charge transfer for efficient overall water splitting. <i>Nanoscale</i> , 2019, 11, 6394-6400.	2.8	23
31	Rhodium/silicon quantum dot/carbon quantum dot composites as highly efficient electrocatalysts for hydrogen evolution reaction with Pt-like performance. <i>Electrochimica Acta</i> , 2019, 299, 828-834.	2.6	24
32	Ternary Os-Ag-Si electrocatalysts for hydrogen evolution are more efficient than Os-Au-Si. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 257-262.	5.0	2
33	Platinum-Decorated Si Nanowires as Methanol-Tolerant Oxygen Reduction Electrocatalysts. <i>ChemistrySelect</i> , 2018, 3, 4619-4623.	0.7	2
34	Palladium-silicon nanocomposites as a stable electrocatalyst for hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 242-248.	5.0	25
35	Nanosponge Pt Modified Graphene Nanocomposites Using Silicon Monoxides as a Reducing Agent: High Efficient Electrocatalysts for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15238-15244.	3.2	11
36	Ir/g-C ₃ N ₄ /Nitrogen-Doped Graphene Nanocomposites as Bifunctional Electrocatalysts for Overall Water Splitting in Acidic Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39161-39167.	4.0	80

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37	Rhodium Nanoparticles/F-Doped Graphene Composites as Multifunctional Electrocatalyst Superior to Pt/C for Hydrogen Evolution and Formic Acid Oxidation Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33153-33161.	4.0	63
38	Network-like porous Co-Ni-B grown on carbon cloth as efficient and stable catalytic electrodes for hydrogen evolution. <i>Electrochemistry Communications</i> , 2018, 93, 104-108.	2.3	47
39	Parameter optimization for Ag-coated TiO ₂ nanotube arrays as recyclable SERS substrates. <i>Applied Surface Science</i> , 2018, 443, 613-618.	3.1	17
40	Rh-Ag-Si ternary composites: highly active hydrogen evolution electrocatalysts over Pt-Ag-Si. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1623-1628.	5.2	28
41	The self-activation and synergy of amorphous Re nanoparticle-Si nanowire composites for the electrocatalytic hydrogen evolution. <i>Electrochimica Acta</i> , 2017, 228, 268-273.	2.6	18
42	A stepwise-designed Rh-Au-Si nanocomposite that surpasses Pt/C hydrogen evolution activity at high overpotentials. <i>Nano Research</i> , 2017, 10, 1749-1755.	5.8	37
43	Photoluminescence of pure silicon quantum dots embedded in an amorphous silica wire array. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6713-6717.	2.7	10
44	Pt nanocrystals on nitrogen-doped graphene for the hydrogen evolution reaction using Si nanowires as a sacrificial template. <i>Nanoscale</i> , 2017, 9, 10138-10144.	2.8	73
45	Optimizing the hydrogen evolution reaction by shrinking Pt amount in Pt-Ag/SiNW nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15024-15030.	3.8	31
46	Powerful synergy: efficient Pt-Au-Si nanocomposites as state-of-the-art catalysts for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21903-21908.	5.2	19
47	Carbon cloth supported cobalt phosphide as multifunctional catalysts for efficient overall water splitting and zinc-air batteries. <i>Nanoscale</i> , 2017, 9, 18977-18982.	2.8	92
48	Os/Si nanocomposites as excellent hydrogen evolution electrocatalysts with thermodynamically more favorable hydrogen adsorption free energy than platinum. <i>Nano Energy</i> , 2017, 39, 284-290.	8.2	40
49	Prominent electrocatalytic methanol oxidation from cauliflower shape gold with high-index facets. <i>Materials Chemistry and Physics</i> , 2017, 186, 301-304.	2.0	9
50	Single-source precursor to Ag/NiO composite for rechargeable charge storage. <i>Journal of Alloys and Compounds</i> , 2017, 692, 34-39.	2.8	16
51	Tuning surface properties of graphene oxide quantum dots by gamma-ray irradiation. <i>Journal of Luminescence</i> , 2016, 175, 88-93.	1.5	6
52	Gamma ray shifted and enhanced photoluminescence of graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2016, 4, 10538-10544.	2.7	10
53	A rhodium/silicon co-electrocatalyst design concept to surpass platinum hydrogen evolution activity at high overpotentials. <i>Nature Communications</i> , 2016, 7, 12272.	5.8	272
54	Bi-functional Au/FeS (Au/Co ₃ O ₄) composite for in situ SERS monitoring and degradation of organic pollutants. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	19

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55	Ru-modified silicon nanowires as electrocatalysts for hydrogen evolution reaction. <i>Electrochemistry Communications</i> , 2015, 52, 29-33.	2.3	56
56	Network-like mesoporous NiCo ₂ O ₄ grown on carbon cloth for high-performance pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16520-16527.	5.2	107
57	Silicon nanowires: applications in catalysis with distinctive surface property. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 4722-4729.	1.1	15
58	Catalytic degradation of dye molecules and in situ SERS monitoring by peroxidase-like Au/CuS composite. <i>Nanoscale</i> , 2014, 6, 8117.	2.8	81
59	Smart Liquid SERS Substrates based on Fe ₃ O ₄ /Au Nanoparticles with Reversibly Tunable Enhancement Factor for Practical Quantitative Detection. <i>Scientific Reports</i> , 2014, 4, 7204.	1.6	41
60	The Effect of Dielectric Constants on Noble Metal/Semiconductor SERS Enhancement: FDTD Simulation and Experiment Validation of Ag/Ge and Ag/Si Substrates. <i>Scientific Reports</i> , 2014, 4, 4052.	1.6	68
61	Bi-functional ZnO@RGO@Au substrate: photocatalysts for degrading pollutants and SERS substrates for real-time monitoring. <i>Chemical Communications</i> , 2013, 49, 3049.	2.2	79
62	An effective oxide shell-protected surface-enhanced Raman scattering (SERS) substrate: the easy route to Ag@Ag _x O-silicon nanowire films via surface doping. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1628.	2.7	26
63	Surface-dependent chemical properties of silicon nanowires: The acceleration of copper oxidation. <i>Applied Physics Letters</i> , 2012, 100, 093114.	1.5	5
64	Pd Nanoparticles/F, N Codoping Graphene Composites for Oxygen Reduction and Zinc-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	3.2	6