Zhen Yin

List of Publications by Year
in descending order

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66 papers	3,522 citations	126907 33 h-index	138484 58 g-index
67 all docs	67 docs citations	67 times ranked	4741 citing authors

#	Article	IF	Citations
1	Principles and applications of photothermal catalysis. Chem Catalysis, 2022, 2, 52-83.	6.1	157
2	Controllable oxidation of cyclohexanone to produce sodium adipate in an electrochemical reactor with a Pt NPs/Ti membrane electrode. International Journal of Chemical Reactor Engineering, 2022, 20, 343-355.	1.1	0
3	Enhancement of Ti₃C₂ MXene on Au@Ag/TiO₂ for the visible-light-driven photoreduction of nitroaromatics. CrystEngComm, 2022, 24, 657-666.	2.6	6
4	Interface construction of NiCo LDH/NiCoS based on the 2D ultrathin nanosheet towards oxygen evolution reaction. Nano Research, 2022, 15, 4986-4995.	10.4	71
5	Facile preparation of polybenzimidazole membrane crosslinked with three-dimensional polyaniline for high-temperature proton exchange membrane. Journal of Power Sources, 2022, 528, 231218.	7.8	25
6	Boosting photoelectrochemical water splitting by Au@Pt modified ZnO/CdS with synergy of Au-S bonds and surface plasmon resonance. Journal of Catalysis, 2022, 408, 196-205.	6.2	22
7	Synergy Promotion of Elemental Doping and Oxygen Vacancies in Fe₂O₃ Nanorods for Photoelectrochemical Water Splitting. ACS Applied Nano Materials, 2022, 5, 6781-6791.	5.0	41
8	Enhanced flow electrochemistry for cyclohexane Conversion: From simulation to application. Journal of Catalysis, 2022, 410, 84-92.	6.2	8
9	Engineering of a self-supported carbon electrode with 2D ultrathin heterostructures of NiCo LDH/NiCoS via a MOF-template for sensitive detection of glucose and H₂O₂. Materials Advances, 2022, 3, 6028-6036.	5.4	5
10	Enhanced proton conductivity and stability of polybenzimidazole membranes at low phosphoric acid doping levels via constructing efficient proton transport pathways with ionic liquids and carbon nanotubes. Journal of Power Sources, 2022, 543, 231802.	7.8	23
11	Persulfate promoted flow electrochemistry: Direct conversion of cyclohexane into adipic acid. Electrochimica Acta, 2022, 426, 140796.	5.2	2
12	Plasmonic coupling enhancement of core-shell Au@Pt assemblies on ZnIn2S4 nanosheets towards photocatalytic H2 production. Applied Surface Science, 2021, 536, 147934.	6.1	52
13	Electrocatalytic activity enhancement of N,P-doped carbon nanosheets derived from polymerizable ionic liquids. Journal of Applied Electrochemistry, 2021, 51, 669-679.	2.9	6
14	Efficient carbon-based electrocatalyst derived from biomass for hydrogen peroxide generation. Materials Today Communications, 2021, 26, 102051.	1.9	2
15	Tailored ionic liquid for metal-free carbons toward oxygen reduction reaction. Carbon Trends, 2021, 3, 100038.	3.0	0
16	Freeâ€Standing and Highâ€Sensitive Electrodes with Hierarchical Nanostructures of Bimetallic Hydroxides M(OH)_x/Cu(OH)₂/CF (M=Ni, Co, Fe and Zn) for Glucose Detection. ChemistrySelect, 2021, 6, 3576-3583.	1.5	0
17	Rich Surface Oxygen Vacancies of MnO₂ for Enhancing Electrocatalytic Oxygen Reduction and Oxygen Evolution Reactions. Advanced Energy and Sustainability Research, 2021, 2, 2100030.	5.8	35
18	3D Carbon Electrode with Hierarchical Nanostructure Based on NiCoP Coreâ€Layered Double Hydroxide Shell for Supercapacitors and Hydrogen Evolution. ChemElectroChem, 2021, 8, 2272-2281.	3.4	27

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19	Construction of Highly Efficient Photocatalyst with <scp>Coreâ€Shell</scp> Au@Ag/C@<scp>SiO₂</scp> Hybrid Structure towards <scp>Visibleâ€Lightâ€Driven</scp> Photocatalytic Reduction. Chinese Journal of Chemistry, 2021, 39, 2865-2872.	4.9	8
20	Rationally designed NiMn LDH@NiCo₂O₄ coreâ€“shell structures for high energy density supercapacitor and enzyme-free glucose sensor. Nanotechnology, 2021, 32, 505710.	2.6	23
21	Bifunctional three-dimensional self-supporting multistage structure CC@MOF-74(NiO)@NiCo LDH electrode for supercapacitors and non-enzymatic glucose sensors. Journal of Alloys and Compounds, 2021, 885, 160899.	5.5	50
22	Design of AgxAu1â^'x alloy/ZnIn2S4 system with tunable spectral response and Schottky barrier height for visible-light-driven hydrogen evolution. Chemical Engineering Journal, 2020, 382, 122953.	12.7	55
23	Rattle-type Au@NiCo LDH hollow core-shell nanostructures for nonenzymatic glucose sensing. Journal of Electroanalytical Chemistry, 2020, 858, 113810.	3.8	45
24	Impact of the Coordination Environment on Atomically Dispersed Pt Catalysts for Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 907-913.	11.2	121
25	Biomass-derived carbon for ORR: pine needles as a single source for efficient carbon electrocatalyst. Journal of Applied Electrochemistry, 2020, 50, 1257-1267.	2.9	13
26	Design of Au@Ag/BiOClâ€“OV photocatalyst and its application in selective alcohol oxidation driven by plasmonic carriers using O₂ as the oxidant. CrystEngComm, 2020, 22, 6603-6611.	2.6	11
27	Photothermal Conversion of CO₂ with Tunable Selectivity Using Fe-Based Catalysts: From Oxide to Carbide. ACS Catalysis, 2020, 10, 10364-10374.	11.2	99
28	Tailoring the Morphology of Nano-Î³-MnO₂ Loaded Porous Ti Membrane Electrode for the High Efficiency Oxidation of Cyclohexane Using Double-Cathodic Electrodeposition. Journal of the Electrochemical Society, 2020, 167, 090553.	2.9	3
29	Constructing defect-rich V2O5 nanorods in catalytic membrane electrode for highly efficient oxidation of cyclohexane. Journal of Catalysis, 2020, 387, 154-162.	6.2	27
30	Electrochemical analysis and convection-enhanced mass transfer synergistic effect of MnO /Ti membrane electrode for alcohol oxidation. Chinese Journal of Chemical Engineering, 2019, 27, 150-156.	3.5	16
31	Construction of a sp³/sp² Carbon Interface in 3D Nâ€Doped Nanocarbons for the Oxygen Reduction Reaction. Angewandte Chemie, 2019, 131, 15233-15241.	2.0	49
32	Construction of a sp³/sp² Carbon Interface in 3D Nâ€Doped Nanocarbons for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 15089-15097.	13.8	215
33	Construction of ternary rGO/1D TiO2 nanotubes/3D ZnIn2S4 microsphere heterostructure and mutually-reinforcing synergy for high-efficiency H2 production photoactivity under visible light. Ceramics International, 2019, 45, 14976-14982.	4.8	27
34	TiO2 nanosheets with exposed {001} facets co-modified by AgxAu1â^'x NPs and 3D ZnIn2S4 microsphere for enhanced visible light absorption and photocatalytic H2 production. Applied Surface Science, 2019, 484, 1168-1175.	6.1	33
35	Highly efficient K-Fe/C catalysts derived from metal-organic frameworks towards ammonia synthesis. Nano Research, 2019, 12, 2341-2347.	10.4	30
36	Direct conversion of CO and H2O into liquid fuels under mild conditions. Nature Communications, 2019, 10, 1389.	12.8	31

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37	Design and optimization of photocatalytic performance of 3D TiO₂ microspheres through Au nanoparticles and rGO co-modification. Materials Research Express, 2019, 6, 075026.	1.6	1
38	Template-directed growth of hierarchically structured MOF-derived LDH cage hybrid arrays for supercapacitor electrode. Journal of Electroanalytical Chemistry, 2019, 840, 174-181.	3.8	39
39	Controlled Synthesis of Copper-Doped Molybdenum Carbide Catalyst with Enhanced Activity and Stability for Hydrogen Evolution Reaction. Catalysis Letters, 2019, 149, 1368-1374.	2.6	11
40	A three-stage fixed-bed electrochemical reactor for biologically treated landfill leachate treatment. Chemical Engineering Journal, 2019, 376, 121026.	12.7	31
41	Optimal design and evaluation of electrocatalytic reactors with nano-MnOx/Ti membrane electrode for wastewater treatment. Chemical Engineering Journal, 2019, 376, 120190.	12.7	41
42	Polymerizable ionic liquid as a precursor for N, P co-doped carbon toward the oxygen reduction reaction. Catalysis Science and Technology, 2018, 8, 1142-1150.	4.1	44
43	Hybrid Auâ€“Ag Nanostructures for Enhanced Plasmon-Driven Catalytic Selective Hydrogenation through Visible Light Irradiation and Surface-Enhanced Raman Scattering. Journal of the American Chemical Society, 2018, 140, 864-867.	13.7	210
44	High performance of N, P co-doped metal-free carbon catalyst derived from ionic liquid for oxygen reduction reaction. Journal of Solid State Electrochemistry, 2018, 22, 519-525.	2.5	19
45	Fe5C2 nanoparticles as low-cost HER electrocatalyst: the importance of Co substitution. Science Bulletin, 2018, 63, 1358-1363.	9.0	45
46	Nano-V₂O₅/Ti porous membrane electrode with enhanced electrochemical activity for the high-efficiency oxidation of cyclohexane. Green Chemistry, 2018, 20, 3944-3953.	9.0	48
47	Effect of Solvent on Conversion and Selectivity during the Selective Oxidation of Cyclohexane by Nano-V₂O₅/Ti Membrane Electrode. Journal of the Electrochemical Society, 2018, 165, H460-H465.	2.9	6
48	Tubular electrocatalytic membrane reactor for alcohol oxidation: CFD simulation and experiment. Chinese Journal of Chemical Engineering, 2017, 25, 18-25.	3.5	23
49	Wet-chemistry synthesis of cobalt carbide nanoparticles as highly active and stable electrocatalyst for hydrogen evolution reaction. Nano Research, 2017, 10, 1322-1328.	10.4	56
50	Polymerizable ionic liquid-derived carbon for oxygen reduction and evolution. Journal of Applied Electrochemistry, 2017, 47, 351-359.	2.9	9
51	Engineering Interface with One-Dimensional Co₃O₄ Nanostructure in Catalytic Membrane Electrode: Toward an Advanced Electrocatalyst for Alcohol Oxidation. ACS Nano, 2017, 11, 12365-12377.	14.6	103
52	Cobalt/Nitrogenâ€Đoped Porous Carbon Nanosheets Derived from Polymerizable Ionic Liquids as Bifunctional Electrocatalyst for Oxygen Evolution and Oxygen Reduction Reaction. ChemCatChem, 2017, 9, 1601-1609.	3.7	79
53	Highly selective palladium-copper bimetallic electrocatalysts for the electrochemical reduction of CO2 to CO. Nano Energy, 2016, 27, 35-43.	16.0	211
54	Controllable oxidation of cyclohexane to cyclohexanol and cyclohexanone by a nano-MnOx/Ti electrocatalytic membrane reactor. Journal of Catalysis, 2015, 329, 187-194.	6.2	58

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55	Polymerizable Ionic Liquid as Nitrogen-Doping Precursor for Coâ€“Nâ€“C Catalyst with Enhanced Oxygen Reduction Activity. Industrial & Engineering Chemistry Research, 2015, 54, 7984-7989.	3.7	36
56	An electrocatalytic reactor for the high selectivity production of sodium 2,2,3,3-tetrafluoropropionate from 2,2,3,3-tetrafluoro-1-propanol. Electrochimica Acta, 2014, 123, 33-41.	5.2	24
57	Construction of Stable Chainlike Au Nanostructures via Silica Coating and Exploration for Potential Photothermal Therapy. Small, 2014, 10, 3619-3624.	10.0	45
58	Construction of Pd-based nanocatalysts for fuel cells: opportunities and challenges. Catalysis Science and Technology, 2014, 4, 4116-4128.	4.1	106
59	Controllable oxidation of glucose to gluconic acid and glucaric acid using an electrocatalytic reactor. Electrochimica Acta, 2014, 130, 170-178.	5.2	96
60	Monodispersed bimetallic PdAg nanoparticles with twinned structures: Formation and enhancement for the methanol oxidation. Scientific Reports, 2014, 4, 4288.	3.3	97
61	Supported bimetallic PdAu nanoparticles with superior electrocatalytic activity towards methanol oxidation. Journal of Materials Chemistry A, 2013, 1, 9157.	10.3	91
62	Preparation of Au-BiVO₄ Heterogeneous Nanostructures as Highly Efficient Visible-Light Photocatalysts. ACS Applied Materials & Interfaces, 2012, 4, 418-423.	8.0	259
63	In situ growth of Au nanoparticles on Fe2O3 nanocrystals for catalytic applications. CrystEngComm, 2012, 14, 7229.	2.6	48
64	Supported Pdâ€“Cu Bimetallic Nanoparticles That Have High Activity for the Electrochemical Oxidation of Methanol. Chemistry - A European Journal, 2012, 18, 4887-4893.	3.3	166
65	Emulsion-assisted synthesis of monodisperse binary metal nanoparticles. Chemical Communications, 2010, 46, 1344.	4.1	28
66	Porous Palladium Nanoflowers that Have Enhanced Methanol Electro-Oxidation Activity. Journal of Physical Chemistry C, 2009, 113, 1001-1005.	3.1	153