

Shangqian Zhu

List of Publications by Year in descending order

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53
papers

4,742
citations

159358

30
h-index

205818

48
g-index

54
all docs

54
docs citations

54
times ranked

4697
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. <i>Chemical Reviews</i> , 2020, 120, 12217-12314.	23.0	563
2	A Spectroscopic Study on the Nitrogen Electrochemical Reduction Reaction on Gold and Platinum Surfaces. <i>Journal of the American Chemical Society</i> , 2018, 140, 1496-1501.	6.6	496
3	Direct Observation on Reaction Intermediates and the Role of Bicarbonate Anions in CO ₂ Electrochemical Reduction Reaction on Cu Surfaces. <i>Journal of the American Chemical Society</i> , 2017, 139, 15664-15667.	6.6	468
4	Recent Advances in Electrocatalysts for Proton Exchange Membrane Fuel Cells and Alkaline Membrane Fuel Cells. <i>Advanced Materials</i> , 2021, 33, e2006292.	11.1	300
5	CO ₂ Electrochemical Reduction As Probed through Infrared Spectroscopy. <i>ACS Energy Letters</i> , 2019, 4, 682-689.	8.8	250
6	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 61, 60-68.	8.2	192
7	The role of ruthenium in improving the kinetics of hydrogen oxidation and evolution reactions of platinum. <i>Nature Catalysis</i> , 2021, 4, 711-718.	16.1	182
8	Active Sites on Heterogeneous Single-Iron-Atom Electrocatalysts in CO ₂ Reduction Reaction. <i>ACS Energy Letters</i> , 2019, 4, 1778-1783.	8.8	158
9	Atomically dispersed Pt and Fe sites and Pt@Fe nanoparticles for durable proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2022, 5, 503-512.	16.1	155
10	Pt@Ni Octahedra as Electrocatalysts for the Ethanol Electro-Oxidation Reaction. <i>ACS Catalysis</i> , 2017, 7, 5134-5141.	5.5	148
11	A Spectroscopic Study of Electrochemical Nitrogen and Nitrate Reduction on Rhodium Surfaces. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10479-10483.	7.2	135
12	Tuning Structural and Compositional Effects in Pd@Au Nanowires for Highly Selective and Active CO ₂ Electrochemical Reduction Reaction. <i>Advanced Energy Materials</i> , 2018, 8, 1802238.	10.2	132
13	pH-Dependent Hydrogen and Water Binding Energies on Platinum Surfaces as Directly Probed through Surface-Enhanced Infrared Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020, 142, 8748-8754.	6.6	130
14	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C ₂₊ Products in CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1909-1915.	7.2	122
15	The Role of Ru in Improving the Activity of Pd toward Hydrogen Evolution and Oxidation Reactions in Alkaline Solutions. <i>ACS Catalysis</i> , 2019, 9, 9614-9621.	5.5	112
16	A Spectroscopic Study of Electrochemical Nitrogen and Nitrate Reduction on Rhodium Surfaces. <i>Angewandte Chemie</i> , 2020, 132, 10565-10569.	1.6	104
17	Recent Advances in Catalyst Structure and Composition Engineering Strategies for Regulating CO ₂ Electrochemical Reduction. <i>Advanced Materials</i> , 2021, 33, e2005484.	11.1	100
18	Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Zn@Air Batteries. <i>Nano Letters</i> , 2021, 21, 4508-4515.	4.5	89

#	ARTICLE	IF	CITATIONS
19	Preparation of Au@Pd Core–Shell Nanorods with <i>fcc</i> -2H- <i>fcc</i> Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 547-555.	6.6	88
20	Kinetically Controlled Synthesis of Pd–Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 149-162.	6.6	77
21	Insight into the synergistic effect between nickel and tungsten carbide for catalyzing urea electrooxidation in alkaline electrolyte. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 365-370.	10.8	68
22	Surface engineering in improving activity of Pt nanocubes for ammonia electrooxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118821.	10.8	58
23	Composition-dependent CO ₂ electrochemical reduction activity and selectivity on Au–Pd core–shell nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16954-16961.	5.2	56
24	Palladium–Platinum Core–Shell Electrocatalysts for Oxygen Reduction Reaction Prepared with the Assistance of Citric Acid. <i>ACS Catalysis</i> , 2016, 6, 3428-3432.	5.5	52
25	Maximizing the Catalytic Performance of Pd@Au _x Pd _{1-x} Nanocubes in H ₂ O ₂ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19643-19647.	7.2	44
26	Solution-Phase Synthesis of PdH _{0.706} Nanocubes with Enhanced Stability and Activity toward Formic Acid Oxidation. <i>Journal of the American Chemical Society</i> , 2022, 144, 2556-2568.	6.6	42
27	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. <i>Small Methods</i> , 2019, 3, 1800324.	4.6	41
28	Organic frameworks confined Cu single atoms and nanoclusters for tandem electrocatalytic CO ₂ reduction to methane. <i>SmartMat</i> , 2022, 3, 183-193.	6.4	35
29	Surface structure and composition effects on electrochemical reduction of carbon dioxide. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 861-873.	1.2	34
30	Solid-State Synthesis of Highly Dispersed Nitrogen-Coordinated Single Iron Atom Electrocatalysts for Proton Exchange Membrane Fuel Cells. <i>Nano Letters</i> , 2021, 21, 3633-3639.	4.5	32
31	Palladium modified gold nanoparticles as electrocatalysts for ethanol electrooxidation. <i>Journal of Power Sources</i> , 2016, 321, 264-269.	4.0	31
32	Impact of Heat Treatment on the Electrochemical Properties of Carbon-Supported Octahedral Pt–Ni Nanoparticles. <i>ACS Catalysis</i> , 2019, 9, 11189-11198.	5.5	31
33	Co Nanoparticles Encapsulated in Porous N-Doped Carbon Nanofibers as an Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3271-J3275.	1.3	26
34	Impacts of Perchloric Acid, Nafion, and Alkali Metal Ions on Oxygen Reduction Reaction Kinetics in Acidic and Alkaline Solutions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27452-27461.	1.5	25
35	Tungsten Carbide and Cobalt Modified Nickel Nanoparticles Supported on Multiwall Carbon Nanotubes as Highly Efficient Electrocatalysts for Urea Oxidation in Alkaline Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41338-41343.	4.0	25
36	Impacts of anions on the oxygen reduction reaction kinetics on platinum and palladium surfaces in alkaline solutions. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7631-7641.	1.3	23

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37	Defect Engineering of Molybdenum-Based Materials for Electrocatalysis. <i>Catalysts</i> , 2020, 10, 1301.	1.6	21
38	The Role of Citric Acid in Perfecting Platinum Monolayer on Palladium Nanoparticles during the Surface Limited Redox Replacement Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, D3040-D3046.	1.3	16
39	Metal organic framework-ionic liquid hybrid catalysts for the selective electrochemical reduction of CO ₂ to CH ₄ . <i>Chinese Journal of Catalysis</i> , 2022, 43, 1687-1696.	6.9	14
40	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C ₂ ⁺ Products in CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021, 133, 1937-1943.	1.6	13
41	Pt-Ni nanourchins as electrocatalysts for oxygen reduction reaction. <i>Frontiers in Energy</i> , 2017, 11, 254-259.	1.2	11
42	Maximizing the Catalytic Performance of Pd@Au _x Pd _{1-x} Nanocubes in H ₂ O ₂ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie</i> , 2021, 133, 19795-19799.	1.6	11
43	Electrolyte pH-dependent hydrogen binding energies and coverages on platinum, iridium, rhodium, and ruthenium surfaces. <i>Catalysis Science and Technology</i> , 2022, 12, 3228-3233.	2.1	10
44	Full atomistic mechanism study of hydrogen evolution reaction on Pt surfaces at universal pHs: Ab initio simulations at electrochemical interfaces. <i>Electrochimica Acta</i> , 2022, 425, 140709.	2.6	9
45	Cu ₃ Pd _x N nanocrystals for efficient CO ₂ electrochemical reduction to methane. <i>Electrochimica Acta</i> , 2021, 371, 137793.	2.6	6
46	Interatomic diffusion in Pd-Pt core-shell nanoparticles. <i>Chinese Journal of Catalysis</i> , 2020, 41, 807-812.	6.9	4
47	Synthesis and Evaluation of Core-Shell Electrocatalysts for Oxygen Reduction Reaction. <i>ECS Transactions</i> , 2016, 75, 731-740.	0.3	1
48	(Invited) Impacts of Ions on Oxygen Reduction Reaction Kinetics on Platinum and Palladium Surfaces. <i>ECS Transactions</i> , 2018, 85, 15-24.	0.3	1
49	Au Nanoparticles Modified with Pt, Ru and SnO ₂ as Electrocatalysts for Ethanol Oxidation Reaction in Acids. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2174-2180.	1.7	1
50	Twisty Pd-Au Nanowires for Highly Selective and Active CO ₂ electrochemical Reduction. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
51	Chromium Oxynitride Electrocatalysts for Electrochemical Synthesis of Ammonia Under Ambient Conditions. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
52	(Invited) Composition Dependent Performance of Au-Pd Core-Shell Nanocatalysts for CO ₂ Electrochemical Reduction. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
53	Attenuated total reflection infrared spectroscopy in nano-electrocatalysis. , 2021, , .		0