Hua-jun Qiu

List of Publications by Year
in descending order

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Version: 2024-02-01

54	4,515	185998 28	182168 51
papers	citations	h-index	g-index

55	55	55	5058
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced bifunctional catalytic activities of N-doped graphene by Ni in a 3D trimodal nanoporous nanotubular network and its ultralong cycling performance in Zn-air batteries. Journal of Energy Chemistry, 2022, 66, 466-473.	7.1	18
2	Eightâ€Component Nanoporous Highâ€Entropy Oxides with Low Ru Contents as Highâ€Performance Bifunctional Catalysts in Znâ€Air Batteries. Small, 2022, 18, e2107207.	5.2	40
3	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis. , 2022, 4, 181-189.		50
4	Highly Strengthened and Toughened Znâ€“Liâ€“Mn Alloys as Longâ€Cycling Life and Dendriteâ€Free Zn Anode for Aqueous Zincâ€Ion Batteries. Small, 2022, 18, e2200787.	5.2	16
5	Inhibited Surface Diffusion of High-Entropy Nano-Alloys for the Preparation of 3D Nanoporous Graphene with High Amounts of Single Atom Dopants. , 2022, 4, 978-986.		14
6	Theoretically Revealed and Experimentally Demonstrated Synergistic Electronic Interaction of CoFe Dual-Metal Sites on N-doped Carbon for Boosting Both Oxygen Reduction and Evolution Reactions. Nano Letters, 2022, 22, 3392-3399.	4.5	121
7	Machine Learning Prediction of Superconducting Critical Temperature through the Structural Descriptor. Journal of Physical Chemistry C, 2022, 126, 8922-8927.	1.5	16
8	Exploiting the Synergistic Electronic Interaction between Ptâ€Skin Wrapped Intermetallic PtCo Nanoparticles and Coâ€Nâ€C Support for Efficient ORR/EOR Electrocatalysis in a Direct Ethanol Fuel Cell. Small, 2022, 18, .	5.2	31
9	RuO2 electronic structure and lattice strain dual engineering for enhanced acidic oxygen evolution reaction performance. Nature Communications, 2022, 13, .	5.8	145
10	Flexible Solidâ€State Direct Ethanol Fuel Cell Catalyzed by Nanoporous Highâ€Entropy Alâ€Pdâ€Niâ€Cuâ€Mo Anode and Spinel (AlMnCo)₃O₄ Cathode. Advanced Functional Materials, 2021, 31, 2007129.	7.8	47
11	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. Nanoscale, 2021, 13, 10916-10924.	2.8	13
12	Designing Ru-doped Zn₃V₃O₈ bifunctional OER and HER catalysts through a unified computational and experimental approach. Nanoscale, 2021, 13, 17457-17464.	2.8	4
13	Topâ€“Down Synthesis of Noble Metal Particles on High-Entropy Oxide Supports for Electrocatalysis. Chemistry of Materials, 2021, 33, 1771-1780.	3.2	92
14	Threeâ€dimensional Porous Co Doped VN Nanosheet Arrays as Cathode Electrode for Alkaline Water Electrolysis. ChemCatChem, 2021, 13, 2444-2450.	1.8	7
15	Development of a Ni-Doped VAl₃ Topological Semimetal with a Significantly Enhanced HER Catalytic Performance. Journal of Physical Chemistry Letters, 2021, 12, 3740-3748.	2.1	21
16	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous Nâ€Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible Allâ€Solidâ€State Alâ€Air Batteries. Advanced Functional Materials, 2021, 31, 2103632.	7.8	19
17	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous Nâ€Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible Allâ€Solidâ€State Alâ€Air Batteries (Adv. Funct. Mater. 38/2021). Advanced Functional Materials, 2021, 31, 2170284.	7.8	1
18	Multicomponent nanoporous Alâ€“Niâ€“Cuâ€“Ptâ€“Pdâ€“Co as highly stable anode catalysts in a flexible room-temperature pure ethanolâ€“powered solid-state fuel cell. Materials Today Energy, 2021, 21, 100835.	2.5	1

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19	In situ coupling of Ag nanoparticles with high-entropy oxides as highly stable bifunctional catalysts for wearable Znâ€“Ag/Znâ€“air hybrid batteries. Nanoscale, 2021, 13, 16164-16171.	2.8	18
20	MOF Structure Engineering to Synthesize Coï£¿Nï£¿C Catalyst with Richer Accessible Active Sites for Enhanced Oxygen Reduction. Small, 2021, 17, e2104684.	5.2	94
21	Electronic Interaction between In Situ Formed RuO₂ Clusters and a Nanoporous Zn₃V₃O₈ Support and Its Use in the Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2021, 13, 54951-54958.	4.0	7
22	Multi-component nanoporous alloy/(oxy)hydroxide for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2020, 268, 118431.	10.8	96
23	MOF-Derived 2D/3D Hierarchical N-Doped Graphene as Support for Advanced Pt Utilization in Ethanol Fuel Cell. ACS Applied Materials & Interfaces, 2020, 12, 47667-47676.	4.0	33
24	Multicomponent Spinel Metal Oxide Nanocomposites as High-Performance Bifunctional Catalysts in Znâ€“Air Batteries. ACS Applied Energy Materials, 2020, 3, 7710-7718.	2.5	22
25	Rugged High-Entropy Alloy Nanowires with in Situ Formed Surface Spinel Oxide As Highly Stable Electrocatalyst in Znâ€“Air Batteries. , 2020, 2, 1698-1706.		114
26	Anchoring Mo single atoms/clusters and N on edge-rich nanoporous holey graphene as bifunctional air electrode in Znâ^'air batteries. Applied Catalysis B: Environmental, 2020, 276, 119172.	10.8	79
27	Synergistically coupling ultrasmall PtCu nanoalloys with highly porous CoP nanosheets as an enhanced electrocatalyst for electrochemical hydrogen evolution. Sustainable Energy and Fuels, 2020, 4, 2551-2558.	2.5	12
28	Nanoporous high-entropy alloys with low Pt loadings for high-performance electrochemical oxygen reduction. Journal of Catalysis, 2020, 383, 164-171.	3.1	125
29	A robust self-stabilized electrode based on Al-based metallic glasses for a highly efficient hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 3246-3251.	5.2	46
30	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. , 2019, 1, 526-533.		229
31	Nanoporous Alâ€Niâ€Coâ€Irâ€Mo Highâ€Entropy Alloy for Recordâ€High Water Splitting Activity in Acidic Environments. Small, 2019, 15, e1904180.	5.2	230
32	Hierarchical Nanoporous V₂O₃ Nanosheets Anchored with Alloy Nanoparticles for Efficient Electrocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 38746-38753.	4.0	32
33	Metal and Nonmetal Codoped 3D Nanoporous Graphene for Efficient Bifunctional Electrocatalysis and Rechargeable Znâ€“Air Batteries. Advanced Materials, 2019, 31, e1900843.	11.1	236
34	Corrosion Engineering To Synthesize Ultrasmall and Monodisperse Alloy Nanoparticles Stabilized in Ultrathin Cobalt (Oxy)hydroxide for Enhanced Electrocatalysis. ACS Applied Materials & Interfaces, 2019, 11, 14745-14752.	4.0	13
35	Nanoporous high-entropy alloys for highly stable and efficient catalysts. Journal of Materials Chemistry A, 2019, 7, 6499-6506.	5.2	215
36	Platinum Cluster/Nanoparticle on CoO Nanosheets with Coupled Atomic Structure and High Electrocatalytic Durability. ACS Applied Energy Materials, 2018, 1, 1840-1845.	2.5	17

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37	A general and scalable approach to produce nanoporous alloy nanowires with rugged ligaments for enhanced electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 12541-12550.	5.2	23
38	Recent advance in fabricating monolithic 3D porous graphene and their applications in biosensing and biofuel cells. Biosensors and Bioelectronics, 2017, 89, 85-95.	5.3	104
39	Enhanced electrochemical supercapacitance of binder-free nanoporous ternary metal oxides/metal electrode. Journal of Colloid and Interface Science, 2016, 474, 18-24.	5.0	22
40	An ultrahigh volumetric capacitance of squeezable three-dimensional bicontinuous nanoporous graphene. Nanoscale, 2016, 8, 18551-18557.	2.8	13
41	Nanoporous Graphene with Singleâ€Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. Angewandte Chemie - International Edition, 2015, 54, 14031-14035.	7.2	628
42	Aligned Nanoporous Ptâ€“Cu Bimetallic Microwires with High Catalytic Activity toward Methanol Electrooxidation. ACS Catalysis, 2015, 5, 3779-3785.	5.5	117
43	Using corrosion to fabricate various nanoporous metal structures. Corrosion Science, 2015, 92, 16-31.	3.0	89
44	Designed synthesis of cobalt-oxide-based nanomaterials for superior electrochemical energy storage devices. Nano Research, 2015, 8, 321-339.	5.8	80
45	Coreâ€“shell-structured nanoporous PtCu with high Cu content and enhanced catalytic performance. Journal of Materials Chemistry A, 2015, 3, 7939-7944.	5.2	55
46	A novel monolithic three-dimensional graphene-based composite with enhanced electrochemical performance. Journal of Materials Chemistry A, 2015, 3, 14887-14893.	5.2	12
47	Designed synthesis of hollow Co₃O₄ nanoparticles encapsulated in a thin carbon nanosheet array for high and reversible lithium storage. Journal of Materials Chemistry A, 2015, 3, 8825-8831.	5.2	54
48	Correlation of the structure and applications of dealloyed nanoporous metals in catalysis and energy conversion/storage. Nanoscale, 2015, 7, 386-400.	2.8	78
49	Highâ€Quality Threeâ€Dimensional Nanoporous Graphene. Angewandte Chemie - International Edition, 2014, 53, 4822-4826.	7.2	215
50	Bicontinuous Nanoporous Nâ€doped Graphene for the Oxygen Reduction Reaction. Advanced Materials, 2014, 26, 4145-4150.	11.1	261
51	Nanoporous metal as a platform for electrochemical and optical sensing. Journal of Materials Chemistry C, 2014, 2, 9788-9799.	2.7	55
52	Selfâ€Grown Oxyâ€Hydroxide@ Nanoporous Metal Electrode for Highâ€Performance Supercapacitors. Advanced Materials, 2014, 26, 269-272.	11.1	152
53	Hierarchical nanoporous nickel alloy as three-dimensional electrodes for high-efficiency energy storage. Scripta Materialia, 2014, 89, 69-72.	2.6	62
54	Fabrication of large-scale nanoporous nickel with a tunable pore size for energy storage. Journal of Power Sources, 2014, 247, 896-905.	4.0	140