

Hua-jun Qiu

List of Publications by Year in descending order

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54
papers

4,515
citations

185998

28
h-index

182168

51
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55
all docs

55
docs citations

55
times ranked

5058
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous Graphene with Single-Atom Nickel Dopants: An Efficient and Stable Catalyst for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14031-14035.	7.2	628
2	Bicontinuous Nanoporous N-doped Graphene for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2014, 26, 4145-4150.	11.1	261
3	Metal and Nonmetal Codoped 3D Nanoporous Graphene for Efficient Bifunctional Electrocatalysis and Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , 2019, 31, e1900843.	11.1	236
4	Nanoporous Al-Ni-Co-Cr-Mo High-Entropy Alloy for Record-High Water Splitting Activity in Acidic Environments. <i>Small</i> , 2019, 15, e1904180.	5.2	230
5	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. , 2019, 1, 526-533.		229
6	High-Quality Three-Dimensional Nanoporous Graphene. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4822-4826.	7.2	215
7	Nanoporous high-entropy alloys for highly stable and efficient catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6499-6506.	5.2	215
8	Self-Grown Oxy-Hydroxide@ Nanoporous Metal Electrode for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 269-272.	11.1	152
9	RuO ₂ electronic structure and lattice strain dual engineering for enhanced acidic oxygen evolution reaction performance. <i>Nature Communications</i> , 2022, 13, .	5.8	145
10	Fabrication of large-scale nanoporous nickel with a tunable pore size for energy storage. <i>Journal of Power Sources</i> , 2014, 247, 896-905.	4.0	140
11	Nanoporous high-entropy alloys with low Pt loadings for high-performance electrochemical oxygen reduction. <i>Journal of Catalysis</i> , 2020, 383, 164-171.	3.1	125
12	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. <i>Nano Letters</i> , 2022, 22, 3392-3399.	4.5	121
13	Aligned Nanoporous Pt-Cu Bimetallic Microwires with High Catalytic Activity toward Methanol Electrooxidation. <i>ACS Catalysis</i> , 2015, 5, 3779-3785.	5.5	117
14	Rugged High-Entropy Alloy Nanowires with in Situ Formed Surface Spinel Oxide As Highly Stable Electrocatalyst in Zn-Air Batteries. , 2020, 2, 1698-1706.		114
15	Recent advance in fabricating monolithic 3D porous graphene and their applications in biosensing and biofuel cells. <i>Biosensors and Bioelectronics</i> , 2017, 89, 85-95.	5.3	104
16	Multi-component nanoporous alloy/(oxy)hydroxide for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118431.	10.8	96
17	MOF Structure Engineering to Synthesize Co _{1-x} Ni _x C Catalyst with Richer Accessible Active Sites for Enhanced Oxygen Reduction. <i>Small</i> , 2021, 17, e2104684.	5.2	94
18	Top-Down Synthesis of Noble Metal Particles on High-Entropy Oxide Supports for Electrocatalysis. <i>Chemistry of Materials</i> , 2021, 33, 1771-1780.	3.2	92

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19	Using corrosion to fabricate various nanoporous metal structures. <i>Corrosion Science</i> , 2015, 92, 16-31.	3.0	89
20	Designed synthesis of cobalt-oxide-based nanomaterials for superior electrochemical energy storage devices. <i>Nano Research</i> , 2015, 8, 321-339.	5.8	80
21	Anchoring Mo single atoms/clusters and N on edge-rich nanoporous holey graphene as bifunctional air electrode in Zn ²⁺ air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 119172.	10.8	79
22	Correlation of the structure and applications of dealloyed nanoporous metals in catalysis and energy conversion/storage. <i>Nanoscale</i> , 2015, 7, 386-400.	2.8	78
23	Hierarchical nanoporous nickel alloy as three-dimensional electrodes for high-efficiency energy storage. <i>Scripta Materialia</i> , 2014, 89, 69-72.	2.6	62
24	Nanoporous metal as a platform for electrochemical and optical sensing. <i>Journal of Materials Chemistry C</i> , 2014, 2, 9788-9799.	2.7	55
25	Core-shell-structured nanoporous PtCu with high Cu content and enhanced catalytic performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7939-7944.	5.2	55
26	Designed synthesis of hollow Co ₃ O ₄ nanoparticles encapsulated in a thin carbon nanosheet array for high and reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8825-8831.	5.2	54
27	Twelve-Component Free-Standing Nanoporous High-Entropy Alloys for Multifunctional Electrocatalysis. , 2022, 4, 181-189.		50
28	Flexible Solid-State Direct Ethanol Fuel Cell Catalyzed by Nanoporous High-Entropy Al ₃ PdNiCuMo Anode and Spinel (AlMnCo) ₃ O ₄ Cathode. <i>Advanced Functional Materials</i> , 2021, 31, 2007129.	7.8	47
29	A robust self-stabilized electrode based on Al-based metallic glasses for a highly efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3246-3251.	5.2	46
30	Eight-Component Nanoporous High-Entropy Oxides with Low Ru Contents as High-Performance Bifunctional Catalysts in Zn-Air Batteries. <i>Small</i> , 2022, 18, e2107207.	5.2	40
31	MOF-Derived 2D/3D Hierarchical N-Doped Graphene as Support for Advanced Pt Utilization in Ethanol Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47667-47676.	4.0	33
32	Hierarchical Nanoporous V ₂ O ₃ Nanosheets Anchored with Alloy Nanoparticles for Efficient Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38746-38753.	4.0	32
33	Exploiting the Synergistic Electronic Interaction between Pt-Skin Wrapped Intermetallic PtCo Nanoparticles and Co ₃ N ₄ Support for Efficient ORR/EOR Electrocatalysis in a Direct Ethanol Fuel Cell. <i>Small</i> , 2022, 18, .	5.2	31
34	A general and scalable approach to produce nanoporous alloy nanowires with rugged ligaments for enhanced electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12541-12550.	5.2	23
35	Enhanced electrochemical supercapacitance of binder-free nanoporous ternary metal oxides/metal electrode. <i>Journal of Colloid and Interface Science</i> , 2016, 474, 18-24.	5.0	22
36	Multicomponent Spinel Metal Oxide Nanocomposites as High-Performance Bifunctional Catalysts in Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7710-7718.	2.5	22

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37	Development of a Ni-Doped VA ₃ Topological Semimetal with a Significantly Enhanced HER Catalytic Performance. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3740-3748.	2.1	21
38	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous N-Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible All-Solid-State Al-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2103632.	7.8	19
39	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. <i>Journal of Energy Chemistry</i> , 2022, 66, 466-473.	7.1	18
40	<i>In situ</i> coupling of Ag nanoparticles with high-entropy oxides as highly stable bifunctional catalysts for wearable Zn-Ag/Zn-air hybrid batteries. <i>Nanoscale</i> , 2021, 13, 16164-16171.	2.8	18
41	Platinum Cluster/Nanoparticle on CoO Nanosheets with Coupled Atomic Structure and High Electrocatalytic Durability. <i>ACS Applied Energy Materials</i> , 2018, 1, 1840-1845.	2.5	17
42	Highly Strengthened and Toughened Zn-Li-Mn Alloys as Long-Cycling Life and Dendrite-Free Zn Anode for Aqueous Zinc-Ion Batteries. <i>Small</i> , 2022, 18, e2200787.	5.2	16
43	Machine Learning Prediction of Superconducting Critical Temperature through the Structural Descriptor. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8922-8927.	1.5	16
44	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
45	An ultrahigh volumetric capacitance of squeezable three-dimensional bicontinuous nanoporous graphene. <i>Nanoscale</i> , 2016, 8, 18551-18557.	2.8	13
46	Corrosion Engineering To Synthesize Ultrasmall and Monodisperse Alloy Nanoparticles Stabilized in Ultrathin Cobalt (Oxy)hydroxide for Enhanced Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14745-14752.	4.0	13
47	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. <i>Nanoscale</i> , 2021, 13, 10916-10924.	2.8	13
48	A novel monolithic three-dimensional graphene-based composite with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14887-14893.	5.2	12
49	Synergistically coupling ultrasmall PtCu nanoalloys with highly porous CoP nanosheets as an enhanced electrocatalyst for electrochemical hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2551-2558.	2.5	12
50	Three-dimensional Porous Co Doped VN Nanosheet Arrays as Cathode Electrode for Alkaline Water Electrolysis. <i>ChemCatChem</i> , 2021, 13, 2444-2450.	1.8	7
51	Electronic Interaction between In Situ Formed RuO ₂ Clusters and a Nanoporous Zn ₃ V ₃ O ₈ Support and Its Use in the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54951-54958.	4.0	7
52	Designing Ru-doped Zn ₃ V ₃ O ₈ bifunctional OER and HER catalysts through a unified computational and experimental approach. <i>Nanoscale</i> , 2021, 13, 17457-17464.	2.8	4
53	Inhibiting Surface Diffusion to Synthesize 3D Bicontinuous Nanoporous N-Doped Carbon for Boosting Oxygen Reduction Reaction in Flexible All-Solid-State Al-Air Batteries (<i>Adv. Funct. Mater.</i> 38/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170284.	7.8	1
54	Multicomponent nanoporous Al-Ni-Cu-Pt-Pd-Co as highly stable anode catalysts in a flexible room-temperature pure ethanol-powered solid-state fuel cell. <i>Materials Today Energy</i> , 2021, 21, 100835.	2.5	1