

Jiuhui Han

List of Publications by Year in descending order

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55
papers

4,447
citations

125106

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h-index

190340

53
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all docs

55
docs citations

55
times ranked

8546
citing authors

#	ARTICLE	IF	CITATIONS
1	Dealloyed nanoporous materials for electrochemical energy conversion and storage. <i>EnergyChem</i> , 2022, 4, 100069.	10.1	43
2	3D Continuously Porous Graphene for Energy Applications. <i>Advanced Materials</i> , 2022, 34, e2108750.	11.1	53
3	A 3D-Printed, Freestanding Carbon Lattice for Sodium Ion Batteries. <i>Small</i> , 2022, 18, .	5.2	22
4	Dilute molybdenum atoms embedded in hierarchical nanoporous copper accelerate the hydrogen evolution reaction. <i>Scripta Materialia</i> , 2021, 191, 56-61.	2.6	14
5	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. <i>Nanoscale</i> , 2021, 13, 10916-10924.	2.8	13
6	Dislocation-mediated shear amorphization in boron carbide. <i>Science Advances</i> , 2021, 7, .	4.7	49
7	3D Bimodal Porous Amorphous Carbon with Self-Similar Porosity by Low-Temperature Sequential Chemical Dealloying. <i>Chemistry of Materials</i> , 2021, 33, 1013-1021.	3.2	11
8	Vapor phase dealloying kinetics of MnZn alloys. <i>Acta Materialia</i> , 2021, 212, 116916.	3.8	19
9	Effect of Local Atomic Structure on Sodium Ion Storage in Hard Amorphous Carbon. <i>Nano Letters</i> , 2021, 21, 6504-6510.	4.5	37
10	Atomic Ni and Cu co-anchored 3D nanoporous graphene as an efficient oxygen reduction electrocatalyst for zinc-air batteries. <i>Nanoscale</i> , 2021, 13, 10862-10870.	2.8	21
11	Identifying Electrocatalytic Sites of the Nanoporous Copper-Ruthenium Alloy for Hydrogen Evolution Reaction in Alkaline Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 192-199.	8.8	209
12	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. <i>ACS Nano</i> , 2020, 14, 4374-4382.	7.3	107
13	Synergetic Effect of Liquid and Solid Catalysts on the Energy Efficiency of O_2 Batteries: Cell Performances and Operando STEM Observations. <i>Nano Letters</i> , 2020, 20, 2183-2190.	4.5	11
14	Dealloying Kinetics of AgAu Nanoparticles by <i>In Situ</i> Liquid-Cell Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 1944-1951.	4.5	47
15	Novel hierarchical nanoporous graphene nanoplatelets with excellent rate capabilities produced via self-templating liquid metal dealloying. <i>Materials Today Communications</i> , 2020, 24, 101120.	0.9	13
16	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1902675.	10.2	64
17	Unprecedented Electromagnetic Interference Shielding from Three-Dimensional Bi-continuous Nanoporous Graphene. <i>Matter</i> , 2019, 1, 1077-1087.	5.0	53
18	3D bicontinuous nanoporous plasmonic heterostructure for enhanced hydrogen evolution reaction under visible light. <i>Nano Energy</i> , 2019, 58, 552-559.	8.2	29

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19	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , 2019, 5, eaat6951.	4.7	78
20	Lithiophilic 3D Nanoporous Nitrogen-Doped Graphene for Dendrite-Free and Ultrahigh-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2019, 31, e1805334.	11.1	254
21	Free-standing nanoporous gold for direct plasmon enhanced electro-oxidation of alcohol molecules. <i>Nano Energy</i> , 2019, 56, 286-293.	8.2	48
22	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , 2019, 10, 275.	5.8	136
23	Three-Dimensional Nanoporous Co ₉ S ₄ P ₄ Pentlandite as a Bifunctional Electrocatalyst for Overall Neutral Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3880-3888.	4.0	73
24	Vapor phase dealloying: A versatile approach for fabricating 3D porous materials. <i>Acta Materialia</i> , 2019, 163, 161-172.	3.8	45
25	Operando characterization of cathodic reactions in a liquid-state lithium-oxygen micro-battery by scanning transmission electron microscopy. <i>Scientific Reports</i> , 2018, 8, 3134.	1.6	25
26	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	5.8	123
27	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , 2018, 45, 273-279.	8.2	54
28	Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage. <i>Nano Energy</i> , 2018, 49, 354-362.	8.2	74
29	Operando observations of RuO ₂ catalyzed Li ₂ O ₂ formation and decomposition in a Li-O ₂ micro-battery. <i>Nano Energy</i> , 2018, 47, 427-433.	8.2	47
30	Graphene-based quasi-solid-state lithium-oxygen batteries with high energy efficiency and a long cycling lifetime. <i>NPG Asia Materials</i> , 2018, 10, 1037-1045.	3.8	35
31	Low-Temperature Carbide-Mediated Growth of Bicontinuous Nitrogen-Doped Mesoporous Graphene as an Efficient Oxygen Reduction Electrocatalyst. <i>Advanced Materials</i> , 2018, 30, e1803588.	11.1	73
32	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie</i> , 2018, 130, 13486-13491.	1.6	10
33	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13302-13307.	7.2	64
34	Graphene Layer Encapsulation of Non-Noble Metal Nanoparticles as Acid-Stable Hydrogen Evolution Catalysts. <i>ACS Energy Letters</i> , 2018, 3, 1539-1544.	8.8	57
35	Macroporous mesh of nanoporous gold in electrochemical monitoring of superoxide release from skeletal muscle cells. <i>Biosensors and Bioelectronics</i> , 2017, 88, 41-47.	5.3	27
36	Full Performance Nanoporous Graphene Based Li ₂ O ₂ Batteries through Solution Phase Oxygen Reduction and Redox-Additive Mediated Li ₂ O ₂ Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601933.	10.2	65

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37	Engineering the internal surfaces of three-dimensional nanoporous catalysts by surfactant-modified dealloying. <i>Nature Communications</i> , 2017, 8, 1066.	5.8	69
38	Direct Observations of the Formation and Redox-Mediator-Assisted Decomposition of Li_2O_2 in a Liquid-Cell Li-O_2 Microbattery by Scanning Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017, 29, 1702752.	11.1	41
39	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	2.9	116
40	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Li-O_2 Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	10.2	132
41	Graphene@Nanoporous Nickel Cathode for Li-O_2 Batteries. <i>ChemNanoMat</i> , 2016, 2, 176-181.	1.5	12
42	Application of nanoporous gold in planar and mesh forms in electrochemical superoxide biosensing. , 2016, , .		0
43	Interfacial insights into 3D plasmonic multijunction nanoarchitecture toward efficient photocatalytic performance. <i>Nano Energy</i> , 2016, 27, 515-525.	8.2	36
44	Atomic-Sized Pores Enhanced Electrocatalysis of TaS_2 Nanosheets for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 8945-8949.	11.1	167
45	Hierarchical nanoporosity enhanced reversible capacity of bicontinuous nanoporous metal based Li-O_2 battery. <i>Scientific Reports</i> , 2016, 6, 33466.	1.6	52
46	Online Monitoring of Superoxide Anions Released from Skeletal Muscle Cells Using an Electrochemical Biosensor Based on Thick-Film Nanoporous Gold. <i>ACS Sensors</i> , 2016, 1, 921-928.	4.0	27
47	Bicontinuous nanotubular graphene-polypyrrole hybrid for high performance flexible supercapacitors. <i>Nano Energy</i> , 2016, 19, 391-400.	8.2	137
48	On-Chip Micro-Pseudocapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , 2015, 2, 1500067.	5.6	66
49	3D Nanoporous Nitrogen-Doped Graphene with Encapsulated RuO_2 Nanoparticles for Li-O_2 Batteries. <i>Advanced Materials</i> , 2015, 27, 6137-6143.	11.1	195
50	Multifunctional Porous Graphene for High-Efficiency Steam Generation by Heat Localization. <i>Advanced Materials</i> , 2015, 27, 4302-4307.	11.1	769
51	An electrochemical biosensor based on gold microspheres and nanoporous gold for real-time detection of superoxide anion in skeletal muscle tissue. , 2015, 2015, 7962-5.		2
52	Nanoporous metal/oxide hybrid materials for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3620-3626.	5.2	45
53	A nanoporous metal recuperated MnO_2 anode for lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 15111-15116.	2.8	58
54	Fabrication and high photocatalytic performance of noble metal nanoparticles supported on 3DOM InVO_4 - BiVO_4 for the visible-light-driven degradation of rhodamine B and methylene blue. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 285-295.	10.8	121

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55	Monolayer MoS ₂ Films Supported by 3D Nanoporous Metals for High Efficiency Electrocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2014, 26, 8023-8028.	11.1	299