

Jiuhui Han

List of Publications by Year in descending order

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55
papers

4,447
citations

101543

36
h-index

168389

53
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55
all docs

55
docs citations

55
times ranked

7331
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Porous Graphene for High Efficiency Steam Generation by Heat Localization. <i>Advanced Materials</i> , 2015, 27, 4302-4307.	21.0	769
2	Monolayer MoS ₂ Films Supported by 3D Nanoporous Metals for High Efficiency Electrocatalytic Hydrogen Production. <i>Advanced Materials</i> , 2014, 26, 8023-8028.	21.0	299
3	Lithiophilic 3D Nanoporous Nitrogen-Doped Graphene for Dendrite-Free and Ultrahigh-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2019, 31, e1805334.	21.0	254
4	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.	17.4	209
5	3D Nanoporous Nitrogen-Doped Graphene with Encapsulated RuO ₂ Nanoparticles for Li-O ₂ Batteries. <i>Advanced Materials</i> , 2015, 27, 6137-6143.	21.0	195
6	Atomic-Sized Pores Enhanced Electrocatalysis of TaS ₂ Nanosheets for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 8945-8949.	21.0	167
7	Bicontinuous nanotubular graphene-polypyrrole hybrid for high performance flexible supercapacitors. <i>Nano Energy</i> , 2016, 19, 391-400.	16.0	137
8	Lithium intercalation into bilayer graphene. <i>Nature Communications</i> , 2019, 10, 275.	12.8	136
9	Effect of Chemical Doping on Cathodic Performance of Bicontinuous Nanoporous Graphene for Li-O ₂ Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1501870.	19.5	132
10	Three-dimensional bicontinuous nanoporous materials by vapor phase dealloying. <i>Nature Communications</i> , 2018, 9, 276.	12.8	123
11	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.	20.2	121
12	Correlation between Local Structure Order and Spatial Heterogeneity in a Metallic Glass. <i>Physical Review Letters</i> , 2017, 119, 215501.	7.8	116
13	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. <i>ACS Nano</i> , 2020, 14, 4374-4382.	14.6	107
14	Extraordinary tensile strength and ductility of scalable nanoporous graphene. <i>Science Advances</i> , 2019, 5, eaat6951.	10.3	78
15	Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage. <i>Nano Energy</i> , 2018, 49, 354-362.	16.0	74
16	Low-Temperature Carbide-Mediated Growth of Bicontinuous Nitrogen-Doped Mesoporous Graphene as an Efficient Oxygen Reduction Electrocatalyst. <i>Advanced Materials</i> , 2018, 30, e1803588.	21.0	73
17	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.	8.0	73
18	Engineering the internal surfaces of three-dimensional nanoporous catalysts by surfactant-modified dealloying. <i>Nature Communications</i> , 2017, 8, 1066.	12.8	69

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19	On-Chip Micro-Pseudocapacitors for Ultrahigh Energy and Power Delivery. <i>Advanced Science</i> , 2015, 2, 1500067.	11.2	66
20	Full Performance Nanoporous Graphene Based LiO_2 Batteries through Solution Phase Oxygen Reduction and Redox-Additive Mediated Li_2O_2 Oxidation. <i>Advanced Energy Materials</i> , 2017, 7, 1601933.	19.5	65
21	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13302-13307.	13.8	64
22	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2019, 9, 1902675.	19.5	64
23	A nanoporous metal recuperated MnO_2 anode for lithium ion batteries. <i>Nanoscale</i> , 2015, 7, 15111-15116.	5.6	58
24	Graphene Layer Encapsulation of Non-Noble Metal Nanoparticles as Acid-Stable Hydrogen Evolution Catalysts. <i>ACS Energy Letters</i> , 2018, 3, 1539-1544.	17.4	57
25	Bilayered nanoporous graphene/molybdenum oxide for high rate lithium ion batteries. <i>Nano Energy</i> , 2018, 45, 273-279.	16.0	54
26	Unprecedented Electromagnetic Interference Shielding from Three-Dimensional Bi-continuous Nanoporous Graphene. <i>Matter</i> , 2019, 1, 1077-1087.	10.0	53
27	3D Continuously Porous Graphene for Energy Applications. <i>Advanced Materials</i> , 2022, 34, e2108750.	21.0	53
28	Hierarchical nanoporosity enhanced reversible capacity of bicontinuous nanoporous metal based Li-O_2 battery. <i>Scientific Reports</i> , 2016, 6, 33466.	3.3	52
29	Dislocation-mediated shear amorphization in boron carbide. <i>Science Advances</i> , 2021, 7, .	10.3	49
30	Free-standing nanoporous gold for direct plasmon enhanced electro-oxidation of alcohol molecules. <i>Nano Energy</i> , 2019, 56, 286-293.	16.0	48
31	Operando observations of RuO_2 catalyzed Li_2O_2 formation and decomposition in a Li-O_2 micro-battery. <i>Nano Energy</i> , 2018, 47, 427-433.	16.0	47
32	Dealloying Kinetics of AgAu Nanoparticles by <i>In Situ</i> Liquid-Cell Scanning Transmission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 1944-1951.	9.1	47
33	Nanoporous metal/oxide hybrid materials for rechargeable lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3620-3626.	10.3	45
34	Vapor phase dealloying: A versatile approach for fabricating 3D porous materials. <i>Acta Materialia</i> , 2019, 163, 161-172.	7.9	45
35	Dealloyed nanoporous materials for electrochemical energy conversion and storage. <i>EnergyChem</i> , 2022, 4, 100069.	19.1	43
36	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.	21.0	41

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37	Effect of Local Atomic Structure on Sodium Ion Storage in Hard Amorphous Carbon. Nano Letters, 2021, 21, 6504-6510.	9.1	37
38	Interfacial insights into 3D plasmonic multijunction nanoarchitecture toward efficient photocatalytic performance. Nano Energy, 2016, 27, 515-525.	16.0	36
39	Graphene-based quasi-solid-state lithium-oxygen batteries with high energy efficiency and a long cycling lifetime. NPC Asia Materials, 2018, 10, 1037-1045.	7.9	35
40	3D bicontinuous nanoporous plasmonic heterostructure for enhanced hydrogen evolution reaction under visible light. Nano Energy, 2019, 58, 552-559.	16.0	29
41	Online Monitoring of Superoxide Anions Released from Skeletal Muscle Cells Using an Electrochemical Biosensor Based on Thick-Film Nanoporous Gold. ACS Sensors, 2016, 1, 921-928.	7.8	27
42	Macroporous mesh of nanoporous gold in electrochemical monitoring of superoxide release from skeletal muscle cells. Biosensors and Bioelectronics, 2017, 88, 41-47.	10.1	27
43	Operando characterization of cathodic reactions in a liquid-state lithium-oxygen micro-battery by scanning transmission electron microscopy. Scientific Reports, 2018, 8, 3134.	3.3	25
44	A 3D-Printed, Freestanding Carbon Lattice for Sodium Ion Batteries. Small, 2022, 18, .	10.0	22
45	Atomic Ni and Cu co-anchored 3D nanoporous graphene as an efficient oxygen reduction electrocatalyst for zinc-air batteries. Nanoscale, 2021, 13, 10862-10870.	5.6	21
46	Vapor phase dealloying kinetics of MnZn alloys. Acta Materialia, 2021, 212, 116916.	7.9	19
47	Dilute molybdenum atoms embedded in hierarchical nanoporous copper accelerate the hydrogen evolution reaction. Scripta Materialia, 2021, 191, 56-61.	5.2	14
48	Novel hierarchical nanoporous graphene nanoplatelets with excellent rate capabilities produced via self-templating liquid metal dealloying. Materials Today Communications, 2020, 24, 101120.	1.9	13
49	Graphene-coated nanoporous nickel towards a metal-catalyzed oxygen evolution reaction. Nanoscale, 2021, 13, 10916-10924.	5.6	13
50	Graphene@Nanoporous Nickel Cathode for Li ²⁺ Batteries. ChemNanoMat, 2016, 2, 176-181.	2.8	12
51	Synergetic Effect of Liquid and Solid Catalysts on the Energy Efficiency of Li ²⁺ Batteries: Cell Performances and Operando STEM Observations. Nano Letters, 2020, 20, 2183-2190.	9.1	11
52	3D Bimodal Porous Amorphous Carbon with Self-Similar Porosity by Low-Temperature Sequential Chemical Dealloying. Chemistry of Materials, 2021, 33, 1013-1021.	6.7	11
53	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. Angewandte Chemie, 2018, 130, 13486-13491.	2.0	10
54	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

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55	Application of nanoporous gold in planar and mesh forms in electrochemical superoxide biosensing. , 2016, , .		0