

Gang Huang

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,858
citations

32
h-index

52
g-index

75
ext. papers

3,705
ext. citations

13
avg, IF

5.78
L-index

#	Paper	IF	Citations
70	Soluble and Perfluorinated Polyelectrolyte for Safe and High-Performance Li-O Batteries.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202116635	16.4	6
69	Suspended Hydrophilic Carbon Anodes to Enable Fully Flowable CeriumMetal Hybrid Flow Batteries 2022 , 100004		
68	Hydrogen Bond-Assisted Solution Discharge in Aprotic Li-O Battery.. <i>Advanced Materials</i> , 2022 , e21104164	16.4	8
67	Co-Solvent Electrolyte Engineering for Stable Anode-Free Zinc Metal Batteries.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	24
66	Covalent Assembly of Two-Dimensional COF-on-MXene Heterostructures Enables Fast Charging Lithium Hosts. <i>Advanced Functional Materials</i> , 2021 , 31, 2101194	15.6	16
65	Fly Ash Carbon Anodes for Alkali Metal-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26421-26430	9.5	3
64	Hybrid solid electrolyte enabled dendrite-free Li anodes for high-performance quasi-solid-state lithium-oxygen batteries. <i>National Science Review</i> , 2021 , 8, nwaa150	10.8	20
63	MXenes for Rechargeable Batteries Beyond the Lithium-Ion. <i>Advanced Materials</i> , 2021 , 33, e2004039	24	71
62	Efforts towards Practical and Sustainable Li/ Na-Air Batteries. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 32-42	4.9	9
61	Lithium-Air Batteries: Air-Electrochemistry and Anode Stabilization. <i>Accounts of Chemical Research</i> , 2021 , 54, 632-641	24.3	33
60	3D Bimodal Porous Amorphous Carbon with Self-Similar Porosity by Low-Temperature Sequential Chemical Dealloying. <i>Chemistry of Materials</i> , 2021 , 33, 1013-1021	9.6	3
59	Two-Dimensional TiO ₂ /TiS ₂ Hybrid Nanosheet Anodes for High-Rate Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8721-8727	6.1	2
58	Rational design of carbon anodes by catalytic pyrolysis of graphitic carbon nitride for efficient storage of Na and K mobile ions. <i>Nano Energy</i> , 2021 , 87, 106184	17.1	10
57	An SiO anode strengthened by the self-catalytic growth of carbon nanotubes. <i>Nanoscale</i> , 2021 , 13, 3808-3816	17.1	9
56	Electrode Protection in High-Efficiency Li-O Batteries. <i>ACS Central Science</i> , 2020 , 6, 2136-2148	16.8	19
55	The Stabilization Effect of CO in Lithium-Oxygen/CO Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16661-16667	16.4	37
54	Interface between Lithium Metal and Garnet Electrolyte: Recent Progress and Perspective. <i>Batteries and Supercaps</i> , 2020 , 3, 1006-1015	5.6	9

53	The Stabilization Effect of CO ₂ in Lithium-Oxygen/CO ₂ Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 16804-16813	3.6	5
52	An Adjustable-Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 9468-9473	3.6	5
51	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. <i>ACS Nano</i> , 2020 , 14, 4374-4382	26.7	49
50	An Adjustable-Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9382-9387	16.4	21
49	Identification of catalytic sites for cerium redox reactions in a metal-organic framework derived powerful electrocatalyst. <i>Energy Storage Materials</i> , 2020 , 32, 11-19	19.4	1
48	Synergetic Effect of Liquid and Solid Catalysts on the Energy Efficiency of Li-O Batteries: Cell Performances and Operando STEM Observations. <i>Nano Letters</i> , 2020 , 20, 2183-2190	11.5	8
47	Rationally Designed CdS-Based Ternary Heterojunctions: A Case of 1T-MoS in CdS/TiO ₂ Photocatalyst. <i>Nanomaterials</i> , 2020 , 11,	5.4	2
46	Free-standing 3D nitrogen-carbon anchored Cu nanorod arrays: in situ derivation from a metal-organic framework and strategy to stabilize lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1425-1431	13	9
45	Zinc Oxide Quantum Dots Embedded Porous Carbon Nanosheets for High-Capacity and Ultrastable Lithium-Ion Battery Anodes. <i>Cell Reports Physical Science</i> , 2020 , 1, 100186	6.1	4
44	Hydrated Mg ₂ V ₅ O ₁₂ Cathode with Improved Mg ²⁺ Storage Performance. <i>Advanced Energy Materials</i> , 2020 , 10, 2002128	21.8	13
43	High-Capacity and Stable Li-O Batteries Enabled by a Trifunctional Soluble Redox Mediator. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19311-19319	16.4	30
42	A renaissance of N,N-dimethylacetamide-based electrolytes to promote the cycling stability of Li-O ₂ batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 3075-3081	35.4	39
41	In Situ Growth of Lithiophilic MOF Layer Enabling Dendrite-free Lithium Deposition. <i>IScience</i> , 2020 , 23, 101869	6.1	2
40	In Situ Designing a Gradient Li Capture and Quasi-Spontaneous Diffusion Anode Protection Layer toward Long-Life Li-O Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004157	24	62
39	High-Capacity and Stable Li-O ₂ Batteries Enabled by a Trifunctional Soluble Redox Mediator. <i>Angewandte Chemie</i> , 2020 , 132, 19473-19481	3.6	11
38	Efficient Na-Ion Storage in 2D TiS ₂ Formed by a Vapor Phase Anion-Exchange Process. <i>Small Methods</i> , 2020 , 4, 2000439	12.8	6
37	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , 2019 , 9, 1902675	21.8	39
36	General Growth of Carbon Nanotubes for Cerium Redox Reactions in High-Efficiency Redox Flow Batteries. <i>Research</i> , 2019 , 2019, 3616178	7.8	6

35	Lithiophilic 3D Nanoporous Nitrogen-Doped Graphene for Dendrite-Free and Ultrahigh-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , 2019 , 31, e1805334	24	173
34	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	17.1	34
33	Low-Temperature Carbide-Mediated Growth of Bicontinuous Nitrogen-Doped Mesoporous Graphene as an Efficient Oxygen Reduction Electrocatalyst. <i>Advanced Materials</i> , 2018 , 30, e1803588	24	57
32	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13302-13307	16.4	51
31	Nanosized Fe _x Ni _{2-x} P embedded phosphorus-doped carbon nanorods with superior lithium storage performance. <i>Energy Storage Materials</i> , 2018 , 12, 103-109	19.4	17
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	10.3	24
29	Phytic Acid-Assisted Formation of Hierarchical Porous CoP/C Nanoboxes for Enhanced Lithium Storage and Hydrogen Generation. <i>ACS Nano</i> , 2018 , 12, 12238-12246	16.7	90
28	Metal organic frameworks route to prepare two-dimensional porous zinc-cobalt oxide plates as anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 396, 659-666	8.9	22
27	Metal-Organic Framework Template Synthesis of NiCoS@C Encapsulated in Hollow Nitrogen-Doped Carbon Cubes with Enhanced Electrochemical Performance for Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18178-18186	9.5	80
26	Full Performance Nanoporous Graphene Based Li-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	21.8	57
25	Hydrogenated Core-Shell MAX@K ₂ Ti ₈ O ₁₇ Pseudocapacitance with Ultrafast Sodium Storage and Long-Term Cycling. <i>Advanced Energy Materials</i> , 2017 , 7, 1700700	21.8	39
24	CuO Nanorod Arrays Formed Directly on Cu Foil from MOFs as Superior Binder-Free Anode Material for Lithium-Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 1564-1570	20.1	52
23	Hierarchical Porous Te@ZnCo ₂ O ₄ Nanofibers Derived from Te@Metal-Organic Frameworks for Superior Lithium Storage Capability. <i>Advanced Functional Materials</i> , 2017 , 27, 1604941	15.6	66
22	Direct Observations of the Formation and Redox-Mediator-Assisted Decomposition of Li ₂ O in a Liquid-Cell Li-O Microbattery by Scanning Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017 , 29, 1702752	24	41
21	Yolk@Shell or Concave Cubic NiO-CoO@C Nanocomposites Derived from Metal-Organic Frameworks for Advanced Lithium-Ion Battery Anodes. <i>Inorganic Chemistry</i> , 2017 , 56, 9794-9801	5.1	40
20	Heterogeneous TiSiC@C-Containing NaTiO ₃ Architecture for High-Performance Sodium Storage at Elevated Temperatures. <i>ACS Nano</i> , 2017 , 11, 12219-12229	16.7	21
19	A general strategy for coating metal-organic frameworks on diverse components and architectures. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15106-15116	13	32
18	RGO/Co ₃ O ₄ Composites Prepared Using GO-MOFs as Precursor for Advanced Lithium-ion Batteries and Supercapacitors Electrodes. <i>Electrochimica Acta</i> , 2016 , 215, 410-419	6.7	94

17	A Core-Shell Fe/Fe ₂ O ₃ Nanowire as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016 , 22, 12081-7	4.8	33
16	Coated/Sandwiched rGO/CoS _x Composites Derived from Metal-Organic Frameworks/GO as Advanced Anode Materials for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016 , 22, 1467-74	4.8	51
15	Enhanced electrochemical performance by a three-dimensional interconnected porous nitrogen-doped graphene/carbonized polypyrrole composite for lithium-sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 26264-26270	3.7	15
14	Synthesis of Porous NiO Nanorods as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 764-770	3.1	24
13	Facile synthesis of CuS/rGO composite with enhanced electrochemical lithium-storage properties through microwave-assisted hydrothermal method. <i>Electrochimica Acta</i> , 2016 , 203, 238-245	6.7	41
12	FeS ₂ @C nanowires derived from organic-inorganic hybrid nanowires for high-rate and long-life lithium-ion batteries. <i>Journal of Power Sources</i> , 2016 , 328, 56-64	8.9	62
11	Preparation of a graphitic N-doped multi-walled carbon nanotube composite for lithium-sulfur batteries with long-life and high specific capacity. <i>RSC Advances</i> , 2016 , 6, 76568-76574	3.7	9
10	Solvothermal synthesis of GO/V ₂ O ₅ composites as a cathode material for rechargeable magnesium batteries. <i>RSC Advances</i> , 2015 , 5, 76352-76355	3.7	40
9	Controllable synthesis of cube-like ZnSnO ₃ @TiO ₂ nanostructures as lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2985-2990	13	47
8	A Facile Molten-Salt Route for Large-Scale Synthesis of NiFe ₂ O ₄ Nanoplates with Enhanced Lithium Storage Capability. <i>Chemistry - A European Journal</i> , 2015 , 21, 14140-5	4.8	29
7	Metal organic frameworks route to in situ insertion of multiwalled carbon nanotubes in Co ₃ O ₄ polyhedra as anode materials for lithium-ion batteries. <i>ACS Nano</i> , 2015 , 9, 1592-9	16.7	410
6	Sulfur-impregnated core-shell hierarchical porous carbon for lithium-sulfur batteries. <i>Chemistry - A European Journal</i> , 2014 , 20, 17523-9	4.8	39
5	Core-shell NiFe ₂ O ₄ @TiO ₂ nanorods: an anode material with enhanced electrochemical performance for lithium-ion batteries. <i>Chemistry - A European Journal</i> , 2014 , 20, 11214-9	4.8	58
4	Hierarchical NiFe ₂ O ₄ /Fe ₂ O ₃ nanotubes derived from metal organic frameworks for superior lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8048-8053	13	203
3	Metal-organic framework derived Fe ₂ O ₃ @NiCo ₂ O ₄ porous nanocages as anode materials for Li-ion batteries. <i>Nanoscale</i> , 2014 , 6, 5509-15	7.7	147
2	Freestanding MnO ₂ @carbon papers air electrodes for rechargeable Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2014 , 261, 311-316	8.9	49
1	Organic Acid Etching Strategy for Dendrite Suppression in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2102797	21.8	11