

# Gang Huang

## List of Publications by Citations

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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	Metal organic frameworks route to in situ insertion of multiwalled carbon nanotubes in Co <sub>3</sub> O <sub>4</sub> polyhedra as anode materials for lithium-ion batteries. <i>ACS Nano</i> , <b>2015</b> , 9, 1592-9	16.7	410
69	Hierarchical NiFe <sub>2</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> nanotubes derived from metal organic frameworks for superior lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8048-8053	13	203
68	Lithiophilic 3D Nanoporous Nitrogen-Doped Graphene for Dendrite-Free and Ultrahigh-Rate Lithium-Metal Anodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805334	24	173
67	Metal-organic framework derived Fe <sub>2</sub> O <sub>3</sub> @NiCo <sub>2</sub> O <sub>4</sub> porous nanocages as anode materials for Li-ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 5509-15	7.7	147
66	RGO/Co <sub>3</sub> O <sub>4</sub> Composites Prepared Using GO-MOFs as Precursor for Advanced Lithium-ion Batteries and Supercapacitors Electrodes. <i>Electrochimica Acta</i> , <b>2016</b> , 215, 410-419	6.7	94
65	Phytic Acid-Assisted Formation of Hierarchical Porous CoP/C Nanoboxes for Enhanced Lithium Storage and Hydrogen Generation. <i>ACS Nano</i> , <b>2018</b> , 12, 12238-12246	16.7	90
64	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 &amp; Interfaces</i> , <b>2017</b> , 9, 18178-18186	9.5	80
63	MXenes for Rechargeable Batteries Beyond the Lithium-Ion. <i>Advanced Materials</i> , <b>2021</b> , 33, e2004039	24	71
62	Hierarchical Porous Te@ZnCo <sub>2</sub> O <sub>4</sub> Nanofibers Derived from Te@Metal-Organic Frameworks for Superior Lithium Storage Capability. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604941	15.6	66
61	In Situ Designing a Gradient Li Capture and Quasi-Spontaneous Diffusion Anode Protection Layer toward Long-Life Li-O Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004157	24	62
60	FeS <sub>2</sub> @C nanowires derived from organic-inorganic hybrid nanowires for high-rate and long-life lithium-ion batteries. <i>Journal of Power Sources</i> , <b>2016</b> , 328, 56-64	8.9	62
59	Core-shell NiFe <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> nanorods: an anode material with enhanced electrochemical performance for lithium-ion batteries. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 11214-9	4.8	58
58	Full Performance Nanoporous Graphene Based Li-O <sub>2</sub> Batteries through Solution Phase Oxygen Reduction and Redox-Additive Mediated Li <sub>2</sub> O <sub>2</sub> Oxidation. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601933	21.8	57
57	Low-Temperature Carbide-Mediated Growth of Bicontinuous Nitrogen-Doped Mesoporous Graphene as an Efficient Oxygen Reduction Electrocatalyst. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803588	24	57
56	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> , <b>2017</b> , 2, 1564-1570	20.1	52
55	Coated/Sandwiched rGO/Co <sub>x</sub> Composites Derived from Metal-Organic Frameworks/GO as Advanced Anode Materials for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 1467-74	4.8	51
54	Heavily Doped and Highly Conductive Hierarchical Nanoporous Graphene for Electrochemical Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13302-13307	16.4	51

53	Ultrastable Silicon Anode by Three-Dimensional Nanoarchitecture Design. <i>ACS Nano</i> , <b>2020</b> , 14, 4374-4382	26.7	49
52	Freestanding MnO <sub>2</sub> @carbon papers air electrodes for rechargeable Li-O <sub>2</sub> batteries. <i>Journal of Power Sources</i> , <b>2014</b> , 261, 311-316	8.9	49
51	Controllable synthesis of cube-like ZnSnO <sub>3</sub> @TiO <sub>2</sub> nanostructures as lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2985-2990	13	47
50	Direct Observations of the Formation and Redox-Mediator-Assisted Decomposition of Li O in a Liquid-Cell Li-O Microbattery by Scanning Transmission Electron Microscopy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702752	24	41
49	Facile synthesis of CuS/rGO composite with enhanced electrochemical lithium-storage properties through microwave-assisted hydrothermal method. <i>Electrochimica Acta</i> , <b>2016</b> , 203, 238-245	6.7	41
48	Solvothermal synthesis of GO/V <sub>2</sub> O <sub>5</sub> composites as a cathode material for rechargeable magnesium batteries. <i>RSC Advances</i> , <b>2015</b> , 5, 76352-76355	3.7	40
47	Yolk@Shell or Concave Cubic NiO-CoO@C Nanocomposites Derived from Metal-Organic Frameworks for Advanced Lithium-Ion Battery Anodes. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9794-9801	5.1	40
46	Hydrogenated Core@Shell MAX@K <sub>2</sub> Ti <sub>8</sub> O <sub>17</sub> Pseudocapacitance with Ultrafast Sodium Storage and Long-Term Cycling. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700700	21.8	39
45	Operando Observations of SEI Film Evolution by Mass-Sensitive Scanning Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902675	21.8	39
44	Sulfur-impregnated core-shell hierarchical porous carbon for lithium-sulfur batteries. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 17523-9	4.8	39
43	A renaissance of N,N-dimethylacetamide-based electrolytes to promote the cycling stability of LiO <sub>2</sub> batteries. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3075-3081	35.4	39
42	The Stabilization Effect of CO in Lithium-Oxygen/CO Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16661-16667	16.4	37
41	Operando observations of RuO <sub>2</sub> catalyzed Li <sub>2</sub> O <sub>2</sub> formation and decomposition in a Li-O <sub>2</sub> micro-battery. <i>Nano Energy</i> , <b>2018</b> , 47, 427-433	17.1	34
40	A Core-Shell Fe/Fe <sub>2</sub> O <sub>3</sub> Nanowire as a High-Performance Anode Material for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 12081-7	4.8	33
39	Lithium-Air Batteries: Air-Electrochemistry and Anode Stabilization. <i>Accounts of Chemical Research</i> , <b>2021</b> , 54, 632-641	24.3	33
38	A general strategy for coating metal-organic frameworks on diverse components and architectures. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15106-15116	13	32
37	High-Capacity and Stable Li-O Batteries Enabled by a Trifunctional Soluble Redox Mediator. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19311-19319	16.4	30
36	A Facile Molten-Salt Route for Large-Scale Synthesis of NiFe <sub>2</sub> O <sub>4</sub> Nanoplates with Enhanced Lithium Storage Capability. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 14140-5	4.8	29

35	Synthesis of Porous NiO Nanorods as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , <b>2016</b> , 33, 764-770	3.1	24
34	Graphene-based quasi-solid-state lithium-oxygen batteries with high energy efficiency and a long cycling lifetime. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 1037-1045	10.3	24
33	Co-Solvent Electrolyte Engineering for Stable Anode-Free Zinc Metal Batteries.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	24
32	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> , <b>2018</b> , 396, 659-666	8.9	22
31	An Adjustable-Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 9382-9387	16.4	21
30	Heterogeneous TiSiC@C-Containing NaTiO Architecture for High-Performance Sodium Storage at Elevated Temperatures. <i>ACS Nano</i> , <b>2017</b> , 11, 12219-12229	16.7	21
29	Hybrid solid electrolyte enabled dendrite-free Li anodes for high-performance quasi-solid-state lithium-oxygen batteries. <i>National Science Review</i> , <b>2021</b> , 8, nwaa150	10.8	20
28	Electrode Protection in High-Efficiency Li-O Batteries. <i>ACS Central Science</i> , <b>2020</b> , 6, 2136-2148	16.8	19
27	Nanosized Fe <sub>x</sub> Ni <sub>2-x</sub> P embedded phosphorus-doped carbon nanorods with superior lithium storage performance. <i>Energy Storage Materials</i> , <b>2018</b> , 12, 103-109	19.4	17
26	Covalent Assembly of Two-Dimensional COF-on-MXene Heterostructures Enables Fast Charging Lithium Hosts. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101194	15.6	16
25	Enhanced electrochemical performance by a three-dimensional interconnected porous nitrogen-doped graphene/carbonized polypyrrole composite for lithium-sulfur batteries. <i>RSC Advances</i> , <b>2016</b> , 6, 26264-26270	3.7	15
24	Hydrated Mg <sub>x</sub> V <sub>50</sub> O <sub>12</sub> Cathode with Improved Mg <sup>2+</sup> Storage Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002128	21.8	13
23	Organic Acid Etching Strategy for Dendrite Suppression in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2102797	21.8	11
22	High-Capacity and Stable Li-O <sub>2</sub> Batteries Enabled by a Trifunctional Soluble Redox Mediator. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 19473-19481	3.6	11
21	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> , <b>2021</b> , 87, 106184	17.1	10
20	Interface between Lithium Metal and Garnet Electrolyte: Recent Progress and Perspective. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 1006-1015	5.6	9
19	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> , <b>2020</b> , 8, 1425-1431	13	9
18	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> , <b>2016</b> , 6, 76568-76574	3.7	9

17	Efforts towards Practical and Sustainable Li/ Na-Air Batteries. <i>Chinese Journal of Chemistry</i> , <b>2021</b> , 39, 32-42	4.9	9
16	An SiO anode strengthened by the self-catalytic growth of carbon nanotubes. <i>Nanoscale</i> , <b>2021</b> , 13, 3808-3816	7.8	9
15	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> , <b>2020</b> , 20, 2183-2190	11.5	8
14	Hydrogen Bond-Assisted Solution Discharge in Aprotic Li-O Battery.. <i>Advanced Materials</i> , <b>2022</b> , e21104164	16.4	8
13	General Growth of Carbon Nanotubes for Cerium Redox Reactions in High-Efficiency Redox Flow Batteries. <i>Research</i> , <b>2019</b> , 2019, 3616178	7.8	6
12	Efficient Na-Ion Storage in 2D TiS <sub>2</sub> Formed by a Vapor Phase Anion-Exchange Process. <i>Small Methods</i> , <b>2020</b> , 4, 2000439	12.8	6
11	Soluble and Perfluorinated Polyelectrolyte for Safe and High-Performance Li-O Batteries.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202116635	16.4	6
10	An Adjustable-Porosity Plastic Crystal Electrolyte Enables High-Performance All-Solid-State Lithium-Oxygen Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 9468-9473	3.6	5
9	Zinc Oxide Quantum Dots Embedded Porous Carbon Nanosheets for High-Capacity and Ultrastable Lithium-Ion Battery Anodes. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100186	6.1	4
8	Fly Ash Carbon Anodes for Alkali Metal-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26421-26430	9.5	3
7	3D Bimodal Porous Amorphous Carbon with Self-Similar Porosity by Low-Temperature Sequential Chemical Dealloying. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1013-1021	9.6	3
6	Rationally Designed CdS-Based Ternary Heterojunctions: A Case of 1T-MoS in CdS/TiO Photocatalyst. <i>Nanomaterials</i> , <b>2020</b> , 11,	5.4	2
5	In Situ Growth of Lithiophilic MOF Layer Enabling Dendrite-free Lithium Deposition. <i>IScience</i> , <b>2020</b> , 23, 101869	6.1	2
4	Two-Dimensional TiO <sub>2</sub> /TiS <sub>2</sub> Hybrid Nanosheet Anodes for High-Rate Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8721-8727	6.1	2
3	Identification of catalytic sites for cerium redox reactions in a metal-organic framework derived powerful electrocatalyst. <i>Energy Storage Materials</i> , <b>2020</b> , 32, 11-19	19.4	1
2	The Stabilization Effect of CO <sub>2</sub> in Lithium/Oxygen/CO <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16804-16808	3.6	
1	Suspended Hydrophilic Carbon Anodes to Enable Fully Flowable Cerium/Metal Hybrid Flow Batteries <b>2022</b> , 100004		