

Liang He

List of Publications by Year in descending order

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5,996
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76294

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7813
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Scroll-Coated MnO_2 Nanowires as High-Performance Cathode Materials for Aqueous Zn-Ion Battery. <i>Small</i> , 2018, 14, e1703850.	5.2	563
2	Effect of Carbon Matrix Dimensions on the Electrochemical Properties of $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Nanograins for High-Performance Symmetric Sodium-Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 3545-3553.	11.1	473
3	Manganese Oxide/Carbon Yolk-Shell Nanorod Anodes for High Capacity Lithium Batteries. <i>Nano Letters</i> , 2015, 15, 738-744.	4.5	345
4	SnO_2 Quantum Dots@Graphene Oxide as a High-Rate and Long-Life Anode Material for Lithium-Ion Batteries. <i>Small</i> , 2016, 12, 588-594.	5.2	338
5	Multicomponent Hierarchical Cu-Doped NiCo-LDH/CuO Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. <i>Advanced Functional Materials</i> , 2019, 29, 1809004.	7.8	313
6	A Large Scalable and Low-Cost Sulfur/Nitrogen Dual-Doped Hard Carbon as the Negative Electrode Material for High-Performance Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901379.	10.2	195
7	Ultrafine Nickel-Nanoparticle-Enabled SiO_2 Hierarchical Hollow Spheres for High-Performance Lithium Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1704561.	7.8	193
8	Hydrated vanadium pentoxide with superior sodium storage capacity. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8070-8075.	5.2	190
9	Nanoflake-Assembled Hierarchical $\text{Na}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. <i>Advanced Energy Materials</i> , 2015, 5, 1401963.	10.2	169
10	Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCo_2O_4 /Hollow Carbon Spheres. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16410-16417.	4.0	148
11	Heterogeneous branched core-shell SnO_2 -PANI nanorod arrays with mechanical integrity and three dimensional electron transport for lithium batteries. <i>Nano Energy</i> , 2014, 8, 196-204.	8.2	140
12	Carbon-coated hierarchical $\text{NaTi}_2(\text{PO}_4)_3$ mesoporous microflowers with superior sodium storage performance. <i>Nano Energy</i> , 2016, 28, 224-231.	8.2	139
13	Field-Effect Tuned Adsorption Dynamics of VSe_2 Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2017, 17, 4109-4115.	4.5	134
14	Ti-MoO_3 - by plasma etching with improved capacity and stabilized structure for lithium storage. <i>Nano Energy</i> , 2018, 49, 555-563.	8.2	133
15	Carbon-MEMS-Based Alternating Stacked MoS_2 @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. <i>Small</i> , 2017, 13, 1700639.	5.2	132
16	Self-sacrificed synthesis of carbon-coated SiO_x nanowires for high capacity lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4183-4189.	5.2	112
17	Rapid, low-temperature synthesis of single-crystalline Co_3O_4 nanorods on silicon substrates on a large scale. <i>Nanotechnology</i> , 2008, 19, 155606.	1.3	97
18	In situ characterization of electrochemical processes in one dimensional nanomaterials for energy storages devices. <i>Nano Energy</i> , 2016, 24, 165-188.	8.2	97

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19	Capacitance and voltage matching between MnO ₂ nanoflake cathode and Fe ₂ O ₃ nanoparticle anode for high-performance asymmetric micro-supercapacitors. <i>Nano Research</i> , 2017, 10, 2471-2481.	5.8	97
20	<i>In situ</i> nitrogen-doped mesoporous carbon nanofibers as flexible freestanding electrodes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23620-23627.	5.2	95
21	On-Chip Zn Microbattery Based on Hierarchical Ordered Porous Ni@Ni(OH) ₂ Microelectrode with Ultrafast Ion and Electron Transport Kinetics. <i>Advanced Functional Materials</i> , 2019, 29, 1808470.	7.8	88
22	A Low-Cost Zn-Based Aqueous Supercapacitor with High Energy Density. <i>ACS Applied Energy Materials</i> , 2019, 2, 5835-5842.	2.5	80
23	Ultrathin pre-lithiated V ₆ O ₁₃ nanosheet cathodes with enhanced electrical transport and cyclability. <i>Journal of Power Sources</i> , 2014, 255, 235-241.	4.0	78
24	Top-down fabrication of three-dimensional porous V ₂ O ₅ hierarchical microplates with tunable porosity for improved lithium battery performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3297-3302.	5.2	76
25	Integrated SnO ₂ nanorod array with polypyrrole coverage for high-rate and long-life lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7619-7623.	1.3	74
26	Improved conductivity and capacitance of interdigital carbon microelectrodes through integration with carbon nanotubes for micro-supercapacitors. <i>Nano Research</i> , 2016, 9, 2510-2519.	5.8	73
27	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. <i>Nano Letters</i> , 2016, 16, 1523-1529.	4.5	72
28	Arbitrary Shape Engineerable Spiral Micropseudocapacitors with Ultrahigh Energy and Power Densities. <i>Advanced Materials</i> , 2015, 27, 7476-7482.	11.1	70
29	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019, 31, e1805778.	11.1	69
30	Co-Electrodeposited porous PEDOT-CNT microelectrodes for integrated micro-supercapacitors with high energy density, high rate capability, and long cycling life. <i>Nanoscale</i> , 2019, 11, 7761-7770.	2.8	69
31	An acetylene black modified gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13679-13686.	5.2	68
32	Copper silicate nanotubes anchored on reduced graphene oxide for long-life lithium-ion battery. <i>Energy Storage Materials</i> , 2017, 7, 152-156.	9.5	67
33	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. <i>ACS Central Science</i> , 2020, 6, 1901-1915.	5.3	53
34	Boosting the electrochemical performance and reliability of conducting polymer microelectrode via intermediate graphene for on-chip asymmetric micro-supercapacitor. <i>Journal of Energy Chemistry</i> , 2020, 49, 224-232.	7.1	53
35	Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective. <i>Small</i> , 2020, 16, e2003251.	5.2	48
36	Mesoporous VO ₂ nanowires with excellent cycling stability and enhanced rate capability for lithium batteries. <i>RSC Advances</i> , 2014, 4, 33332-33337.	1.7	47

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37	Wearable Textile-Based Co ²⁺ /Zn Alkaline Microbattery with High Energy Density and Excellent Reliability. <i>Small</i> , 2020, 16, e2000293.	5.2	47
38	Unveiling the role of surface P=O group in P-doped Co ₃ O ₄ for electrocatalytic oxygen evolution by On-chip micro-device. <i>Nano Energy</i> , 2021, 83, 105748.	8.2	46
39	The Young's modulus of high-aspect-ratio carbon/carbon nanotube composite microcantilevers by experimental and modeling validation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	45
40	Novel Charging-Optimized Cathode for a Fast and High-Capacity Zinc-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10420-10427.	4.0	43
41	High Energy Density Micro-Supercapacitor Based on a Three-Dimensional Bicontinuous Porous Carbon with Interconnected Hierarchical Pores. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 948-956.	4.0	42
42	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. <i>Advanced Energy Materials</i> , 2020, 10, 2001873.	10.2	40
43	Pyrolyzed carbon with embedded NiO/Ni nanospheres for applications in microelectrodes. <i>RSC Advances</i> , 2016, 6, 43436-43441.	1.7	37
44	Electrochemical in situ X-ray probing in lithium-ion and sodium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 3697-3718.	1.7	36
45	Integration of VS ₂ nanosheets into carbon for high energy density micro-supercapacitor. <i>Journal of Alloys and Compounds</i> , 2020, 823, 151769.	2.8	32
46	In operando observation of temperature-dependent phase evolution in lithium-incorporation olivine cathode. <i>Nano Energy</i> , 2016, 22, 406-413.	8.2	31
47	Rapid, all dry microfabrication of three-dimensional Co ₃ O ₄ /Pt nanonetworks for high-performance microsupercapacitors. <i>Nanoscale</i> , 2017, 9, 11765-11772.	2.8	30
48	Microstructuring of carbon/tin quantum dots via a novel photolithography and pyrolysis-reduction process. <i>Nano Research</i> , 2017, 10, 3743-3753.	5.8	27
49	Advances in wearable textile-based micro energy storage devices: structuring, application and perspective. <i>Nanoscale Advances</i> , 2021, 3, 6271-6293.	2.2	27
50	Microstructuring of carbon nanotubes-nickel nanocomposite. <i>Nanotechnology</i> , 2015, 26, 195601.	1.3	26
51	Facile Synthesis of Bi ₂ S ₃ @SiO ₂ Core-Shell Microwires as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6110-A6115.	1.3	26
52	Understanding the Behavior and Mechanism of Oxygen-Deficient Anatase TiO ₂ toward Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 3061-3069.	4.0	26
53	Sb ₂ S ₃ @PPy Coaxial Nanorods: A Versatile and Robust Host Material for Reversible Storage of Alkali Metal Ions. <i>Nanomaterials</i> , 2019, 9, 560.	1.9	25
54	Fabrication of CNT-carbon composite microstructures using Si micromolding and pyrolysis. <i>Microsystem Technologies</i> , 2014, 20, 201-208.	1.2	22

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55	Progress in Iron Oxides Based Nanostructures for Applications in Energy Storage. <i>Nanoscale Research Letters</i> , 2021, 16, 138.	3.1	19
56	Fibers by Electrospinning and Their Emerging Applications in Bone Tissue Engineering. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 9082.	1.3	19
57	Electric field and photoelectrical effect bi-enhanced hydrogen evolution reaction. <i>Nano Research</i> , 2018, 11, 3205-3212.	5.8	17
58	Quantitative in situ fracture testing of tin oxide nanowires for lithium ion battery applications. <i>Nano Energy</i> , 2018, 53, 277-285.	8.2	17
59	Research Progress of Biomimetic Memristor Flexible Synapse. <i>Coatings</i> , 2022, 12, 21.	1.2	15
60	Ultrastable High-Energy On-Chip Nickel-Bismuth Microbattery Powered by Crystalline Bi Anode and Ni-Co Hydroxide Cathode. <i>Energy Technology</i> , 2019, 7, 1900144.	1.8	13
61	Scalable microfabrication of three-dimensional porous interconnected graphene scaffolds with carbon spheres for high-performance all carbon-based micro-supercapacitors. <i>Journal of Materiomics</i> , 2019, 5, 303-312.	2.8	13
62	Regulating Lattice-Water Adsorbed Ions to Optimize Intercalation Potential in 3D Prussian Blue Based Multi-Ion Microbattery. <i>Small</i> , 2021, 17, e2007791.	5.2	12
63	A Durable Ni-Zn Microbattery with Ultrahigh-Rate Capability Enabled by In Situ Reconstructed Nanoporous Nickel with Epitaxial Phase. <i>Small</i> , 2021, 17, e2103136.	5.2	11
64	One-step electrodeposited $Mn_xCo_{1-x}(OH)_2$ nanosheet arrays as cathode for asymmetric on-chip micro-supercapacitors. <i>Applied Physics Letters</i> , 2019, 114, 223903.	1.5	10
65	Bilayered microelectrodes based on electrochemically deposited MnO_2 /polypyrrole towards fast charge transport kinetics for micro-supercapacitors. <i>RSC Advances</i> , 2020, 10, 18245-18251.	1.7	10
66	High-Adhesive Flexible Electrodes and Their Manufacture: A Review. <i>Micromachines</i> , 2021, 12, 1505.	1.4	10
67	Strategies to improve electrocatalytic performance of MoS_2 -based catalysts for hydrogen evolution reactions. <i>RSC Advances</i> , 2022, 12, 17959-17983.	1.7	10
68	Surface Engineering of Carbon-Based Microelectrodes for High-Performance Microsupercapacitors. <i>Micromachines</i> , 2019, 10, 307.	1.4	8
69	Growth Process and Dielectric Breakdown of Micro Arc Oxidation Coating on AZ31 Mg Alloy Pretreated by Alkali Treatment. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 156-163.	0.3	5
70	Fabrication of a Si-PZT Hybrid XY-Microstage with CNT-Carbon Hinges. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2012, 132, 425-426.	0.0	4
71	The Effect of Ageing Treatment on Shape-Setting and Shape Memory Effect of a NiTi SMA Corrugated Structure. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-11.	1.0	3
72	Microdevices: Carbon-MEMS-Based Alternating Stacked MoS_2 @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density (<i>Small</i> 26/2017). <i>Small</i> , 2017, 13, .	5.2	2

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73	Influence of Structural Parameters of Shape Memory Alloy Corrugated Gaskets on the Contact Pressure of Bolted Flange Joints. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-19.	1.0	2
74	Young's modulus of multi-layer microcantilevers. <i>AIP Advances</i> , 2017, 7, .	0.6	0
75	High-Performance Microbatteries: Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective (<i>Small</i> 39/2020). <i>Small</i> , 2020, 16, 2070213.	5.2	0