Liang He

List of Publications by Citations

73 papers	4,470 citations	34 h-index	66 g-index
75 ext. papers	5,270 ext. citations	9.8 avg, IF	5.63 L-index

#	Paper	IF	Citations
73	Effect of carbon matrix dimensions on the electrochemical properties of Na3V2(PO4)3 nanograins for high-performance symmetric sodium-ion batteries. *Advanced Materials*, **2014**, 26, 3545-53	24	402
72	Graphene Scroll-Coated MnO Nanowires as High-Performance Cathode Materials for Aqueous Zn-Ion Battery. *Small*, **2018**, 14, e1703850	11	386
71	Manganese oxide/carbon yolk-shell nanorod anodes for high capacity lithium batteries. *Nano Letters*, **2015**, 15, 738-44	11.5	318
70	SnO2 Quantum Dots@Graphene Oxide as a High-Rate and Long-Life Anode Material for Lithium-Ion Batteries. *Small*, **2016**, 12, 588-94	11	307
69	Multicomponent Hierarchical Cu-Doped NiCo-LDH/CuO Double Arrays for Ultralong-Life Hybrid Fiber Supercapacitor. *Advanced Functional Materials*, **2019**, 29, 1809004	15.6	182
68	Hydrated vanadium pentoxide with superior sodium storage capacity. *Journal of Materials Chemistry A*, **2015**, 3, 8070-8075	13	146
67	Nanoflake-Assembled Hierarchical Na3V2(PO4)3/C Microflowers: Superior Li Storage Performance and Insertion/Extraction Mechanism. *Advanced Energy Materials*, **2015**, 5, 1401963	21.8	144
66	Ultrafine Nickel-Nanoparticle-Enabled SiO2 Hierarchical Hollow Spheres for High-Performance Lithium Storage. *Advanced Functional Materials*, **2018**, 28, 1704561	15.6	142
65	Heterogeneous branched core shell SnO2 PANI nanorod arrays with mechanical integrity and three dimentional electron transport for lithium batteries. *Nano Energy*, **2014**, 8, 196-204	17.1	127
64	A Large Scalable and Low-Cost Sulfur/Nitrogen Dual-Doped Hard Carbon as the Negative Electrode Material for High-Performance Potassium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1901379	21.8	125
63	Carbon-coated hierarchical NaTi2(PO4)3 mesoporous microflowers with superior sodium storage performance. *Nano Energy*, **2016**, 28, 224-231	17.1	114
62	Field-Effect Tuned Adsorption Dynamics of VSe Nanosheets for Enhanced Hydrogen Evolution Reaction. *Nano Letters*, **2017**, 17, 4109-4115	11.5	98
61	Self-sacrificed synthesis of carbon-coated SiOx nanowires for high capacity lithium ion battery anodes. *Journal of Materials Chemistry A*, **2017**, 5, 4183-4189	13	92
60	Carbon-MEMS-Based Alternating Stacked MoS @rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density. *Small*, **2017**, 13, 1700639	11	90
59	Oxygen Vacancy-Determined Highly Efficient Oxygen Reduction in NiCoO/Hollow Carbon Spheres. *ACS Applied Materials & Interfaces*, **2018**, 10, 16410-16417	9.5	88
58	Rapid, low-temperature synthesis of single-crystalline Co(3)O(4) nanorods on silicon substrates on a large scale. *Nanotechnology*, **2008**, 19, 155606	3.4	88
57	MoO3- by plasma etching with improved capacity and stabilized structure for lithium storage. *Nano Energy*, **2018**, 49, 555-563	17.1	86

56	In situ characterization of electrochemical processes in one dimensional nanomaterials for energy storages devices. *Nano Energy*, **2016**, 24, 165-188	17.1	81
55	In situ nitrogen-doped mesoporous carbon nanofibers as flexible freestanding electrodes for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 23620-23627	13	76
54	Capacitance and voltage matching between MnO2 nanoflake cathode and Fe2O3 nanoparticle anode for high-performance asymmetric micro-supercapacitors. *Nano Research*, **2017**, 10, 2471-2481	10	75
53	Top-down fabrication of three-dimensional porous V2O5 hierarchical microplates with tunable porosity for improved lithium battery performance. *Journal of Materials Chemistry A*, **2014**, 2, 3297-3302	13	72
52	Integrated SnO2 nanorod array with polypyrrole coverage for high-rate and long-life lithium batteries. *Physical Chemistry Chemical Physics*, **2015**, 17, 7619-23	3.6	70
51	Ultrathin pre-lithiated V6O13 nanosheet cathodes with enhanced electrical transport and cyclability. *Journal of Power Sources*, **2014**, 255, 235-241	8.9	67
50	Arbitrary Shape Engineerable Spiral Micropseudocapacitors with Ultrahigh Energy and Power Densities. *Advanced Materials*, **2015**, 27, 7476-82	24	64
49	Improved conductivity and capacitance of interdigital carbon microelectrodes through integration with carbon nanotubes for micro-supercapacitors. *Nano Research*, **2016**, 9, 2510-2519	10	62
48	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. *Nano Letters*, **2016**, 16, 1523-9	11.5	59
47	On-Chip Ni//Zn Microbattery Based on Hierarchical Ordered Porous Ni@Ni(OH)2 Microelectrode with Ultrafast Ion and Electron Transport Kinetics. *Advanced Functional Materials*, **2019**, 29, 1808470	15.6	56
46	Copper silicate nanotubes anchored on reduced graphene oxide for long-life lithium-ion battery. *Energy Storage Materials*, **2017**, 7, 152-156	19.4	51
45	Co-Electrodeposited porous PEDOT-CNT microelectrodes for integrated micro-supercapacitors with high energy density, high rate capability, and long cycling life. *Nanoscale*, **2019**, 11, 7761-7770	7.7	49
44	Mesoporous VO2 nanowires with excellent cycling stability and enhanced rate capability for lithium batteries. *RSC Advances*, **2014**, 4, 33332-33337	3.7	45
43	An acetylene black modified gel polymer electrolyte for high-performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2019**, 7, 13679-13686	13	44
42	The Young's modulus of high-aspect-ratio carbon/carbon nanotube composite microcantilevers by experimental and modeling validation. *Applied Physics Letters*, **2015**, 106, 111908	3.4	43
41	Doping Nanoscale Graphene Domains Improves Magnetism in Hexagonal Boron Nitride. *Advanced Materials*, **2019**, 31, e1805778	24	40
40	A Low-Cost Zn-Based Aqueous Supercapacitor with High Energy Density. *ACS Applied Energy Materials*, **2019**, 2, 5835-5842	6.1	38
39	Pyrolyzed carbon with embedded NiO/Ni nanospheres for applications in microelectrodes. *RSC Advances*, **2016**, 6, 43436-43441	3.7	34

38	Boosting the electrochemical performance and reliability of conducting polymer microelectrode via intermediate graphene for on-chip asymmetric micro-supercapacitor. *Journal of Energy Chemistry*, **2020**, 49, 224-232	12	31
37	Electrochemical in situ X-ray probing in lithium-ion and sodium-ion batteries. *Journal of Materials Science*, **2017**, 52, 3697-3718	4.3	30
36	Novel Charging-Optimized Cathode for a Fast and High-Capacity Zinc-Ion Battery. *ACS Applied Materials & Interfaces*, **2020**, 12, 10420-10427	9.5	27
35	Rapid, all dry microfabrication of three-dimensional CoO/Pt nanonetworks for high-performance microsupercapacitors. *Nanoscale*, **2017**, 9, 11765-11772	7.7	27
34	Wearable Textile-Based Co-Zn Alkaline Microbattery with High Energy Density and Excellent Reliability. *Small*, **2020**, 16, e2000293	11	26
33	High Energy Density Micro-Supercapacitor Based on a Three-Dimensional Bicontinuous Porous Carbon with Interconnected Hierarchical Pores. *ACS Applied Materials & Interfaces*, **2019**, 11, 948-956	9.5	26
32	Microstructuring of carbon nanotubes-nickel nanocomposite. *Nanotechnology*, **2015**, 26, 195601	3.4	25
31	Microstructuring of carbon/tin quantum dots via a novel photolithography and pyrolysis-reduction process. *Nano Research*, **2017**, 10, 3743-3753	10	24
30	In operando observation of temperature-dependent phase evolution in lithium-incorporation olivine cathode. *Nano Energy*, **2016**, 22, 406-413	17.1	24
29	Fabrication of CNT-carbon composite microstructures using Si micromolding and pyrolysis. *Microsystem Technologies*, **2014**, 20, 201-208	1.7	21
28	Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective. *Small*, **2020**, 16, e2003251	11	21
27	Sb□□@PPy Coaxial Nanorods: A Versatile and Robust Host Material for Reversible Storage of Alkali Metal Ions. *Nanomaterials*, **2019**, 9,	5.4	19
26	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. *Advanced Energy Materials*, **2020**, 10, 2001873	21.8	18
25	Facile Synthesis of Bi2S3@SiO2Core-Shell Microwires as High-Performance Anode Materials for Lithium-Ion Batteries. *Journal of the Electrochemical Society*, **2017**, 164, A6110-A6115	3.9	17
24	Integration of VS2 nanosheets into carbon for high energy density micro-supercapacitor. *Journal of Alloys and Compounds*, **2020**, 823, 151769	5.7	17
23	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. *ACS Central Science*, **2020**, 6, 1901-1915	16.8	17
22	Unveiling the role of surface P□□ group in P-doped Co3O4 for electrocatalytic oxygen evolution by On-chip micro-device. *Nano Energy*, **2021**, 83, 105748	17.1	16
21	Understanding the Behavior and Mechanism of Oxygen-Deficient Anatase TiO toward Sodium Storage. *ACS Applied Materials & Interfaces*, **2019**, 11, 3061-3069	9.5	16

20	Quantitative in situ fracture testing of tin oxide nanowires for lithium ion battery applications. *Nano Energy*, **2018**, 53, 277-285	17.1	15
19	Electric field and photoelectrical effect bi-enhanced hydrogen evolution reaction. *Nano Research*, **2018**, 11, 3205-3212	10	11
18	Scalable microfabrication of three-dimensional porous interconnected graphene scaffolds with carbon spheres for high-performance all carbon-based micro-supercapacitors. *Journal of Materiomics*, **2019**, 5, 303-312	6.7	11
17	Ultrastable High-Energy On-Chip NickelBismuth Microbattery Powered by Crystalline Bi Anode and NiCo Hydroxide Cathode. *Energy Technology*, **2019**, 7, 1900144	3.5	9
16	One-step electrodeposited MnxCo1(OH)2 nanosheet arrays as cathode for asymmetric on-chip micro-supercapacitors. *Applied Physics Letters*, **2019**, 114, 223903	3.4	9
15	Progress in Iron Oxides Based Nanostructures for Applications in Energy Storage. *Nanoscale Research Letters*, **2021**, 16, 138	5	6
14	Surface Engineering of Carbon-Based Microelectrodes for High-Performance Microsupercapacitors. *Micromachines*, **2019**, 10,	3.3	5
13	Bilayered microelectrodes based on electrochemically deposited MnO/polypyrrole towards fast charge transport kinetics for micro-supercapacitors.. *RSC Advances*, **2020**, 10, 18245-18251	3.7	5
12	Regulating Lattice-Water-Adsorbed Ions to Optimize Intercalation Potential in 3D Prussian Blue Based Multi-Ion Microbattery. *Small*, **2021**, 17, e2007791	11	5
11	A Durable Ni-Zn Microbattery with Ultrahigh-Rate Capability Enabled by In Situ Reconstructed Nanoporous Nickel with Epitaxial Phase. *Small*, **2021**, 17, e2103136	11	5
10	Advances in wearable textile-based micro energy storage devices: structuring, application and perspective. *Nanoscale Advances*,	5.1	5
9	Fabrication of a Si-PZT Hybrid XY-Microstage with CNT-Carbon Hinges. *IEEJ Transactions on Sensors and Micromachines*, **2012**, 132, 425-426	0.2	4
8	Fibers by Electrospinning and Their Emerging Applications in Bone Tissue Engineering. *Applied Sciences (Switzerland)*, **2021**, 11, 9082	2.6	4
7	Research Progress of Biomimetic Memristor Flexible Synapse. *Coatings*, **2022**, 12, 21	2.9	3
6	Microdevices: Carbon-MEMS-Based Alternating Stacked MoS2@rGO-CNT Micro-Supercapacitor with High Capacitance and Energy Density (Small 26/2017). *Small*, **2017**, 13,	11	2
5	The Effect of Ageing Treatment on Shape-Setting and Shape Memory Effect of a NiTi SMA Corrugated Structure. *Advances in Materials Science and Engineering*, **2020**, 2020, 1-11	1.5	2
4	Growth Process and Dielectric Breakdown of Micro Arc Oxidation Coating on AZ31 Mg Alloy Pretreated by Alkali Treatment. *Protection of Metals and Physical Chemistry of Surfaces*, **2020**, 56, 156-163	0.9	2
3	Influence of Structural Parameters of Shape Memory Alloy Corrugated Gaskets on the Contact Pressure of Bolted Flange Joints. *Advances in Materials Science and Engineering*, **2021**, 2021, 1-19	1.5	0

2	Young's modulus of multi-layer microcantilevers. *AIP Advances*, **2017**, 7, 125114	1.5
1	High-Performance Microbatteries: Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective (Small 39/2020). *Small*, **2020**, 16, 2070213	11