

Wen Luo

List of Publications by Year in descending order

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41
papers

2,251
citations

304743

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289244

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times ranked

3105
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Durable Na ₂ V ₆ O ₁₆ ·1.63H ₂ O Nanowire Cathode for Aqueous Zinc-Ion Battery. Nano Letters, 2018, 18, 1758-1763.	9.1	568
2	Bottom-Up Confined Synthesis of Nanorod-in-Nanotube Structured Sb@C for Durable Lithium and Sodium Storage. Advanced Energy Materials, 2018, 8, 1703237.	19.5	192
3	Heterostructured Bi ₂ S ₃ @Bi ₂ O ₃ Nanosheets with a Built-In Electric Field for Improved Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 7201-7207.	8.0	153
4	Ultralong Sb ₂ Se ₃ Nanowire-Based Free-Standing Membrane Anode for Lithium/Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 35219-35226.	8.0	139
5	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. Journal of Power Sources, 2016, 304, 340-345.	7.8	109
6	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. Nanoscale, 2018, 10, 6820-6826.	5.6	109
7	In situ characterization of electrochemical processes in one dimensional nanomaterials for energy storages devices. Nano Energy, 2016, 24, 165-188.	16.0	97
8	Encapsulating segment-like antimony nanorod in hollow carbon tube as long-lifespan, high-rate anodes for rechargeable K-ion batteries. Nano Research, 2019, 12, 1025-1031.	10.4	89
9	Hierarchical MnCo ₂ O ₄ @NiMoO ₄ as free-standing core-shell nanowire arrays with synergistic effect for enhanced supercapacitor performance. Inorganic Chemistry Frontiers, 2019, 6, 857-865.	6.0	72
10	Eutectic Electrolytes in Advanced Metal-Ion Batteries. ACS Energy Letters, 2022, 7, 247-260.	17.4	61
11	Antimony-based intermetallic compounds for lithium-ion and sodium-ion batteries: synthesis, construction and application. Rare Metals, 2017, 36, 321-338.	7.1	59
12	Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective. Small, 2020, 16, e2003251.	10.0	48
13	Mass Production of Monodisperse Carbon Microspheres with Size-Dependent Supercapacitor Performance via Aqueous Self-Catalyzed Polymerization. ChemPlusChem, 2017, 82, 872-878.	2.8	46
14	Fast, green microwave-assisted synthesis of single crystalline Sb ₂ Se ₃ nanowires towards promising lithium storage. Journal of Energy Chemistry, 2019, 30, 27-33.	12.9	43
15	Novel Charging-Optimized Cathode for a Fast and High-Capacity Zinc-Ion Battery. ACS Applied Materials & Interfaces, 2020, 12, 10420-10427.	8.0	43
16	Achieving better aqueous rechargeable zinc ion batteries with heterostructure electrodes. Nano Research, 2021, 14, 3174-3187.	10.4	40
17	A Strain-Relaxation Red Phosphorus Freestanding Anode for Non-Aqueous Potassium Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	40
18	Nanostructured layered vanadium oxide as cathode for high-performance sodium-ion batteries: a perspective. MRS Communications, 2017, 7, 152-165.	1.8	34

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19	<i>In situ</i> monitoring of the electrochemically induced phase transition of thermodynamically metastable 1T-MoS ₂ at nanoscale. <i>Nanoscale</i> , 2020, 12, 9246-9254.	5.6	33
20	A high-capacity polyaniline-intercalated layered vanadium oxide for aqueous ammonium-ion batteries. <i>Chemical Communications</i> , 2022, 58, 791-794.	4.1	28
21	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.	4.1	25
22	Enhanced Thermal Conductivity and Durability of a Paraffin Wax Nanocomposite Based on Carbon-Coated Aluminum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12603-12609.	3.1	24
23	Electrochemically Exfoliating MoS ₂ into Atomically Thin Planar Stacking Through a Selective Lateral Reaction Pathway. <i>Advanced Functional Materials</i> , 2021, 31, 2007840.	14.9	23
24	In Situ Generated Carbon Nanosheet-Covered Micron-Sized Porous Si Composite for Long-Cycling Life Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 535-544.	5.1	21
25	Unveiling the microscopic origin of asymmetric phase transformations in (de)sodiated Sb ₂ Se ₃ with in situ transmission electron microscopy. <i>Nano Energy</i> , 2020, 77, 105299.	16.0	20
26	Hollow SiO ₂ /C Microspheres with Semigraphitic Carbon Coating as the "Lithium Host" for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 3905-3912.	5.1	20
27	Carboxyl functionalized carbon incorporation of stacked ultrathin NiO nanosheets: topological construction and superior lithium storage. <i>Nanoscale</i> , 2019, 11, 7588-7594.	5.6	17
28	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.	3.8	13
29	Sandwich-like dual carbon layers coated NiO hollow spheres with superior lithium storage performances. <i>Electrochimica Acta</i> , 2020, 343, 136121.	5.2	13
30	Active Site Identification and Interfacial Design of a MoP/N-Doped Carbon Catalyst for Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021, 4, 5486-5492.	5.1	13
31	One-step electrodeposited Mn _x Co _{1-x} (OH) ₂ nanosheet arrays as cathode for asymmetric on-chip micro-supercapacitors. <i>Applied Physics Letters</i> , 2019, 114, 223903.	3.3	10
32	Engineering Nanostructured Antimony-Based Anode Materials for Sodium Ion Batteries. <i>Coatings</i> , 2021, 11, 1233.	2.6	10
33	MoS ₂ -Based Substrates for Surface-Enhanced Raman Scattering: Fundamentals, Progress and Perspective. <i>Coatings</i> , 2022, 12, 360.	2.6	10
34	Sub-Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials. <i>Small</i> , 2021, 17, e2104649.	10.0	9
35	Constructing Three-Dimensional Macroporous TiO ₂ Microspheres with Enhanced Pseudocapacitive Lithium Storage under Deep Discharging/Charging Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16528-16535.	8.0	7
36	Voltage plateau variation in a bismuth-potassium battery. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2917-2923.	10.3	6

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37	Oxygen-Plasma-Induced Hetero-Interface NiFe ₂ O ₄ /NiMoO ₄ Catalyst for Enhanced Electrochemical Oxygen Evolution. <i>Materials</i> , 2022, 15, 3688.	2.9	3
38	Interplay of fluids mixing and heat transfer in a dual-loop ORC direct contact heat exchanger used for waste heat utilization. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 2294-2305.	2.1	2
39	Self-assembly of Gradient Copolymer Synthesized by Spontaneous Batch RAFT Emulsion Polymerization and Its Application on Encapsulating Ag Nanoparticles. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2018, 33, 987-994.	1.0	1
40	Subnanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials (<i>Small</i> 49/2021). <i>Small</i> , 2021, 17, .	10.0	1
41	High-Performance Microbatteries: Recent Advances in High-Performance Microbatteries: Construction, Application, and Perspective (<i>Small</i> 39/2020). <i>Small</i> , 2020, 16, 2070213.	10.0	0