Wen Luo

List of Publications by Year
in descending order

41 papers	2,251 citations	346980 22 h-index	325983 40 g-index
41 all docs	41 docs citations	41 times ranked	3574 citing authors

#	Article	IF	Citations
1	A high-capacity polyaniline-intercalated layered vanadium oxide for aqueous ammonium-ion batteries. Chemical Communications, 2022, 58, 791-794.	2.2	28
2	Voltage plateau variation in a bismuth-potassium battery. Journal of Materials Chemistry A, 2022, 10, 2917-2923.	5.2	6
3	A Strainâ€Relaxation Red Phosphorus Freestanding Anode for Nonâ€Aqueous Potassium Ion Batteries. Advanced Energy Materials, 2022, 12, .	10.2	40
4	MoS2-Based Substrates for Surface-Enhanced Raman Scattering: Fundamentals, Progress and Perspective. Coatings, 2022, 12, 360.	1.2	10
5	Eutectic Electrolytes in Advanced Metal-Ion Batteries. ACS Energy Letters, 2022, 7, 247-260.	8.8	61
6	Oxygen-Plasma-Induced Hetero-Interface NiFe2O4/NiMoO4 Catalyst for Enhanced Electrochemical Oxygen Evolution. Materials, 2022, 15, 3688.	1.3	3
7	Electrochemically Exfoliating MoS₂ into Atomically Thin Planarâ€Stacking Through a Selective Lateral Reaction Pathway. Advanced Functional Materials, 2021, 31, 2007840.	7.8	23
8	In Situ Generated Carbon Nanosheet-Covered Micron-Sized Porous Si Composite for Long-Cycling Life Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 535-544.	2.5	21
9	Hollow SiO_x/C Microspheres with Semigraphitic Carbon Coating as the â€œLithium Hostâ€•for Dendrite-Free Lithium Metal Anodes. ACS Applied Energy Materials, 2021, 4, 3905-3912.	2.5	20
10	Constructing Three-Dimensional Macroporous TiO₂ Microspheres with Enhanced Pseudocapacitive Lithium Storage under Deep Discharging/Charging Conditions. ACS Applied Materials & Interfaces, 2021, 13, 16528-16535.	4.0	7
11	Achieving better aqueous rechargeable zinc ion batteries with heterostructure electrodes. Nano Research, 2021, 14, 3174-3187.	5.8	40
12	Active Site Identification and Interfacial Design of a MoP/N-Doped Carbon Catalyst for Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 5486-5492.	2.5	13
13	Engineering Nanostructured Antimony-Based Anode Materials for Sodium Ion Batteries. Coatings, 2021, 11, 1233.	1.2	10
14	Subâ€Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials. Small, 2021, 17, e2104649.	5.2	9
15	Subâ€Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials (Small 49/2021). Small, 2021, 17, .	5.2	1
16	Highâ€Performance Microbatteries: Recent Advances in Highâ€Performance Microbatteries: Construction, Application, and Perspective (Small 39/2020). Small, 2020, 16, 2070213.	5.2	0
17	Unveiling the microscopic origin of asymmetric phase transformations in (de)sodiated Sb2Se3 with in situ transmission electron microscopy. Nano Energy, 2020, 77, 105299.	8.2	20
18	Recent Advances in Highâ€Performance Microbatteries: Construction, Application, and Perspective. Small, 2020, 16, e2003251.	5.2	48

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19	Sandwich-like dual carbon layers coated NiO hollow spheres with superior lithium storage performances. Electrochimica Acta, 2020, 343, 136121.	2.6	13
20	In situ monitoring of the electrochemically induced phase transition of thermodynamically metastable 1T-MoS₂ at nanoscale. Nanoscale, 2020, 12, 9246-9254.	2.8	33
21	Novel Charging-Optimized Cathode for a Fast and High-Capacity Zinc-Ion Battery. ACS Applied Materials & Interfaces, 2020, 12, 10420-10427.	4.0	43
22	Interplay of fluids mixing and heat transfer in a dual-loop ORC direct contact heat exchanger used for waste heat utilization. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 2294-2305.	1.1	2
23	Ultrastable Highâ€Energy Onâ€Chip Nickelâ€“Bismuth Microbattery Powered by Crystalline Bi Anode and Niâ€“Co Hydroxide Cathode. Energy Technology, 2019, 7, 1900144.	1.8	13
24	One-step electrodeposited MnxCo1â^'x(OH)2 nanosheet arrays as cathode for asymmetric on-chip micro-supercapacitors. Applied Physics Letters, 2019, 114, 223903.	1.5	10
25	Sb2S3@PPy Coaxial Nanorods: A Versatile and Robust Host Material for Reversible Storage of Alkali Metal Ions. Nanomaterials, 2019, 9, 560.	1.9	25
26	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.	5.8	89
27	Carboxyl functionalized carbon incorporation of stacked ultrathin NiO nanosheets: topological construction and superior lithium storage. Nanoscale, 2019, 11, 7588-7594.	2.8	17
28	Hierarchical MnCo₂O₄@NiMoO₄ as free-standing coreâ€“shell nanowire arrays with synergistic effect for enhanced supercapacitor performance. Inorganic Chemistry Frontiers, 2019, 6, 857-865.	3.0	72
29	Fast, green microwave-assisted synthesis of single crystalline Sb2Se3 nanowires towards promising lithium storage. Journal of Energy Chemistry, 2019, 30, 27-33.	7.1	43
30	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. Nanoscale, 2018, 10, 6820-6826.	2.8	109
31	Highly Durable Na₂V₆O₁₆·1.63H₂O Nanowire Cathode for Aqueous Zinc-Ion Battery. Nano Letters, 2018, 18, 1758-1763.	4.5	568
32	Heterostructured Bi₂S₃â€“Bi₂O₃ Nanosheets with a Built-In Electric Field for Improved Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 7201-7207.	4.0	153
33	Bottomâ€Up Confined Synthesis of Nanodâ€inâ€Nanotube Structured Sb@Nâ€C for Durable Lithium and Sodium Storage. Advanced Energy Materials, 2018, 8, 1703237.	10.2	192
34	Self-assembly of Gradient Copolymer Synthesized by Spontaneous Batch RAFT Emulsion Polymerization and Its Application on Encapsulating Ag Nanoparticles. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 987-994.	0.4	1
35	Nanostructured layered vanadium oxide as cathode for high-performance sodium-ion batteries: a perspective. MRS Communications, 2017, 7, 152-165.	0.8	34
36	Mass Production of Monodisperse Carbon Microspheres with Sizeâ€Dependent Supercapacitor Performance via Aqueous Selfâ€Catalyzed Polymerization. ChemPlusChem, 2017, 82, 872-878.	1.3	46

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37	Antimony-based intermetallic compounds for lithium-ion and sodium-ion batteries: synthesis, construction and application. Rare Metals, 2017, 36, 321-338.	3.6	59
38	Enhanced Thermal Conductivity and Durability of a Paraffin Wax Nanocomposite Based on Carbon-Coated Aluminum Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 12603-12609.	1.5	24
39	Ultralong Sb₂Se₃ Nanowire-Based Free-Standing Membrane Anode for Lithium/Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 35219-35226.	4.0	139
40	In situ characterization of electrochemical processes in one dimensional nanomaterials for energy storages devices. Nano Energy, 2016, 24, 165-188.	8.2	97
41	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. Journal of Power Sources, 2016, 304, 340-345.	4.0	109