Wei-Jie Li

List of Publications by Year
in descending order

71 papers	5,489 citations	101384 36 h-index	79541 73 g-index
75 all docs	75 docs citations	75 times ranked	6050 citing authors

#	Article	IF	Citations
1	Urchinâ€Like CoSe₂ as a Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2016, 26, 6728-6735.	7.8	471
2	Simply Mixed Commercial Red Phosphorus and Carbon Nanotube Composite with Exceptionally Reversible Sodium-Ion Storage. Nano Letters, 2013, 13, 5480-5484.	4.5	390
3	Recent Developments of the Lithium Metal Anode for Rechargeable Nonâ€Aqueous Batteries. Advanced Energy Materials, 2016, 6, 1600811.	10.2	306
4	Sn_{4+x}P₃ @ Amorphous Snâ€P Composites as Anodes for Sodiumâ€Ion Batteries with Low Cost, High Capacity, Long Life, and Superior Rate Capability. Advanced Materials, 2014, 26, 4037-4042.	11.1	298
5	Reversible structural evolution of sodium-rich rhombohedral Prussian blue for sodium-ion batteries. Nature Communications, 2020, 11, 980.	5.8	283
6	Chemical Properties, Structural Properties, and Energy Storage Applications of Prussian Blue Analogues. Small, 2019, 15, e1900470.	5.2	226
7	Principals and strategies for constructing a highly reversible zinc metal anode in aqueous batteries. Nano Energy, 2020, 74, 104880.	8.2	225
8	Sodium transition metal oxides: the preferred cathode choice for future sodium-ion batteries?. Energy and Environmental Science, 2021, 14, 158-179.	15.6	224
9	Multifunctional conducing polymer coated Na1+MnFe(CN)6 cathode for sodium-ion batteries with superior performance via a facile and one-step chemistry approach. Nano Energy, 2015, 13, 200-207.	8.2	165
10	Facile Method To Synthesize Na-Enriched Na_{1+x}FeFe(CN)₆ Frameworks as Cathode with Superior Electrochemical Performance for Sodium-Ion Batteries. Chemistry of Materials, 2015, 27, 1997-2003.	3.2	163
11	Cobalt phosphide as a new anode material for sodium storage. Journal of Power Sources, 2015, 294, 627-632.	4.0	158
12	A new, cheap, and productive FeP anode material for sodium-ion batteries. Chemical Communications, 2015, 51, 3682-3685.	2.2	154
13	An ultrathin rechargeable solid-state zinc ion fiber battery for electronic textiles. Science Advances, 2021, 7, eabl3742.	4.7	145
14	Structural design of anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 6183-6205.	5.2	127
15	Electron Delocalization and Dissolutionâ€Restraint in Vanadium Oxide Superlattices to Boost Electrochemical Performance of Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2001852.	10.2	125
16	Commercial Prospects of Existing Cathode Materials for Sodium Ion Storage. Advanced Energy Materials, 2017, 7, 1700274.	10.2	118
17	Phosphorus and phosphide nanomaterials for sodium-ion batteries. Nano Research, 2017, 10, 4055-4081.	5.8	111
18	Significant enhancement of the cycling performance and rate capability of the P/C composite via chemical bonding (Pâ€“C). Journal of Materials Chemistry A, 2016, 4, 505-511.	5.2	106

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19	Controlled synthesis of copper telluride nanostructures for long-cycling anodes in lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 11683.	5.2	94
20	Design strategies for developing non-precious metal based bi-functional catalysts for alkaline electrolyte based zincâ€“air batteries. Materials Horizons, 2019, 6, 1812-1827.	6.4	79
21	Free-Standing Three-Dimensional CuCo₂S₄ Nanosheet Array with High Catalytic Activity as an Efficient Oxygen Electrode for Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 3834-3842.	4.0	75
22	MoS₂ with an intercalation reaction as a long-life anode material for lithium ion batteries. Inorganic Chemistry Frontiers, 2016, 3, 532-535.	3.0	70
23	Stress Distortion Restraint to Boost the Sodium Ion Storage Performance of a Novel Binary Hexacyanoferrate. Advanced Energy Materials, 2020, 10, 1903006.	10.2	67
24	One-pot synthesis of ultra-small magnetite nanoparticles on the surface of reduced graphene oxide nanosheets as anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 4793-4798.	5.2	59
25	Promoting solar-to-hydrogen evolution on Schottky interface with mesoporous TiO2-Cu hybrid nanostructures. Journal of Colloid and Interface Science, 2019, 545, 116-127.	5.0	58
26	Phosphorusâ€Modulationâ€Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodiumâ€Storage Performance. Angewandte Chemie - International Edition, 2019, 58, 4022-4026.	7.2	56
27	Ball-milled FeP/graphite as a low-cost anode material for the sodium-ion battery. RSC Advances, 2015, 5, 80536-80541.	1.7	52
28	Electrodeposited binder-free Sb/NiSb anode of sodium-ion batteries with excellent cycle stability and rate capability and new insights into its reaction mechanism by operando XRD analysis. Nano Energy, 2020, 77, 105123.	8.2	51
29	Cuprous ion (Cu+) doping induced surface/interface engineering for enhancing the CO2 photoreduction capability of W18O49 nanowires. Journal of Colloid and Interface Science, 2020, 572, 306-317.	5.0	50
30	Graphiteâ€Nanoplateâ€Coated Bi₂S₃ Composite with Highâ€Volume Energy Density and Excellent Cycle Life for Roomâ€Temperature Sodiumâ€“Sulfide Batteries. Chemistry - A European Journal, 2016, 22, 590-597.	1.7	48
31	Catalytic Activity Boosting of Nickel Sulfide toward Oxygen Evolution Reaction via Confined Overdoping Engineering. ACS Applied Energy Materials, 2019, 2, 5363-5372.	2.5	48
32	Confining Zeroâ€Valent Platinum Single Atoms in Î±â€MoC_{1â^’}_x for pHâ€Universal Hydrogen Evolution Reaction. Advanced Functional Materials, 2022, 32, 2108464.	7.8	43
33	Recent Advances in Cuâ€Based Cocatalysts toward Solarâ€toâ€Hydrogen Evolution: Categories and Roles. Solar Rrl, 2019, 3, 1900256.	3.1	41
34	Remarkable Enhancement in Sodiumâ€Ion Kinetics of NaFe₂(CN)₆ by Chemical Bonding with Graphene. Small Methods, 2018, 2, 1700346.	4.6	40
35	Ambient synthesis of a multifunctional 1D/2D hierarchical Agâ€“Ag₂S nanowire/nanosheet heterostructure with diverse applications. CrystEngComm, 2016, 18, 930-937.	1.3	38
36	Electrostatically assembled construction of ternary TiO2-Cu@C hybrid with enhanced solar-to-hydrogen evolution employing amorphous carbon dots as electronic mediator. Chemical Engineering Journal, 2019, 375, 121902.	6.6	38

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37	Strategies for boosting carbon electrocatalysts for the oxygen reduction reaction in non-aqueous metalâ€“air battery systems. Journal of Materials Chemistry A, 2021, 9, 6671-6693.	5.2	37
38	Functional composite polymer electrolytes with imidazole modified SiO2 nanoparticles for high-voltage cathode lithium ion batteries. Electrochimica Acta, 2019, 320, 134567.	2.6	36
39	C₁₀H₄O₂S₂/graphene composite as a cathode material for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 18409-18415.	5.2	35
40	Impact of Cu particles on adsorption and photocatalytic capability of mesoporous Cu@TiO2 hybrid towards ciprofloxacin antibiotic removal. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 229-242.	2.7	32
41	Co-embedding oxygen vacancy and copper particles into titanium-based oxides (TiO2, BaTiO3, and) Tj ETQq1 1 0.784314 rgBT /Overlock of Colloid and Interface Science, 2022, 624, 348-361.	5.0	32
42	Three-Dimensional Electronic Network Assisted by TiN Conductive Pillars and Chemical Adsorption to Boost the Electrochemical Performance of Red Phosphorus. ACS Nano, 2020, 14, 4609-4617.	7.3	31
43	Integrated p-n/Schottky junctions for efficient photocatalytic hydrogen evolution upon Cu@TiO2-Cu2O ternary hybrids with steering charge transfer. Journal of Colloid and Interface Science, 2022, 622, 924-937.	5.0	31
44	A facile way to fabricate double-shell pomegranate-like porous carbon microspheres for high-performance Li-ion batteries. Journal of Materials Chemistry A, 2017, 5, 12073-12079.	5.2	30
45	A 1D/2D WO₃ nanostructure coupled with a nanoparticulate CuO cocatalyst for enhancing solar-driven CO₂ photoreduction: the impact of the crystal facet. Sustainable Energy and Fuels, 2020, 4, 2593-2603.	2.5	29
46	Engineered tungsten oxide-based photocatalysts for CO₂reduction: categories and roles. Journal of Materials Chemistry A, 2021, 9, 22781-22809.	5.2	29
47	Facile Synthesis of Birnessite Î´-MnO₂ and Carbon Nanotube Composites as Effective Catalysts for Li-CO₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 16585-16593.	4.0	29
48	A P3-Type K_{1/2}Mn_{5/6}Mg_{1/12}Ni_{1/12}O₂ Cathode Material for Potassium-Ion Batteries with High Structural Reversibility Secured by the Mgâ€“Ni Pinning Effect. ACS Applied Materials & Interfaces, 2021, 13, 28369-28377.	4.0	29
49	Achieving photocatalytic hydrogen production from alkaline solution upon a designed mesoporous TiO₂â€“Ni hybrid employing commonly used paper as a sacrificial electron donor. Inorganic Chemistry Frontiers, 2018, 5, 2709-2717.	3.0	27
50	Recent progress on three-dimensional nanoarchitecture anode materials for lithium/sodium storage. Journal of Materials Science and Technology, 2022, 119, 167-181.	5.6	26
51	Effects of carbon on electrochemical performance of red phosphorus (P) and carbon composite as anode for sodium ion batteries. Journal of Materials Science and Technology, 2021, 68, 140-146.	5.6	20
52	Oxidation behaviors of porous Haynes 214 alloy at high temperatures. Materials Characterization, 2015, 107, 283-292.	1.9	19
53	Recent Progress on Two-Dimensional Carbon Materials for Emerging Post-Lithium (Na+, K+, Zn2+) Hybrid Supercapacitors. Polymers, 2021, 13, 2137.	2.0	19
54	Tuning dual three-dimensional porous copper/graphite composite to achieve diversified utilization of copper current collector for lithium storage. Rare Metals, 2021, 40, 2802-2809.	3.6	18

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55	Boron leaching: Creating vacancy-rich Ni for enhanced hydrogen evolution. Nano Research, 2022, 15, 1868-1873.	5.8	18
56	Organic Small Molecules with Electrochemicalâ€Active Phenolic Enolate Groups for Readyâ€toâ€Charge Organic Sodiumâ€Ion Batteries. Small Methods, 2022, 6, .	4.6	15
57	Recent advances in synthesis strategies and solar-to-hydrogen evolution of 1T phase MS2 (MÂ=ÂW, Mo) co-catalysts. Journal of Materials Science and Technology, 2022, 101, 242-263.	5.6	14
58	High-yielding carbon nanofibers grown on NIPS-derived porous nickel as a flexible electrode for supercapacitors. Materials Chemistry Frontiers, 2020, 4, 2976-2981.	3.2	13
59	Engineered zinc oxide nanoaggregates for photocatalytic removal of ciprofloxacin with structure dependence. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	13
60	Architecting Braided Porous Carbon Fibers Based on Highâ€Density Catalytic Crystal Planes to Achieve Highly Reversible Sodiumâ€Ion Storage. Advanced Science, 2022, 9, e2104780.	5.6	13
61	Synergistic Double Cross-Linked Dynamic Network of Epoxidized Natural Rubber/Glycinamide Modified Polyacrylic Acid for Silicon Anode in Lithium Ion Battery: High Peel Strength and Super Cycle Stability. ACS Applied Materials & Interfaces, 2022, 14, 33315-33327.	4.0	13
62	2D boron nanosheet architectonics: opening new territories by smart functionalization. Journal of Materials Chemistry A, 2022, 10, 2736-2750.	5.2	12
63	Phosphorusâ€Modulationâ€Triggered Surface Disorder in Titanium Dioxide Nanocrystals Enables Exceptional Sodiumâ€Storage Performance. Angewandte Chemie, 2019, 131, 4062-4066.	1.6	11
64	Nanosized Si space-confined in 3D porous Cu as anode for high-performance lithium storage. Surface Innovations, 2021, 9, 207-213.	1.4	9
65	A novel superimposed porous copper/carbon film derived from polymer matrix as catalyst support for metal-air battery. Journal of Porous Materials, 2022, 29, 249-255.	1.3	8
66	Oxidation behaviors of Ni-Cr-Al superalloy foams at 1 000 Â°C in air. Journal of Central South University, 2013, 20, 3345-3353.	1.2	7
67	Improving the Energy Density and Efficiency of the Linear Polymer PMMA with a Double-Bond Fluoropolymer at Elevated Temperatures. ACS Omega, 2021, 6, 35014-35022.	1.6	6
68	Architecting a 3D continuous C/CuVO₃@Cu composite anode for lithium-ion storage. Surface Innovations, 2023, 11, 70-78.	1.4	5
69	First Observation of Low-Temperature Magnetic Transition in CuAgSe. Journal of Physical Chemistry C, 2018, 122, 19139-19145.	1.5	4
70	Simply Coupling TiO₂ Nanospheres with Cu₂O Particles to Boost the Photocatalytic Hydrogen Evolution through pâ€“n Heterojunctionâ€Induced Charge Transfer. Energy Technology, 2022, 10, 2100259.	1.8	4
71	Beta-Cyclodextrin-triggered fabrication of broccoli-like ZnO nanoaggregates with enhanced photocatalytic capability. Functional Materials Letters, 2020, 13, 2051004.	0.7	1