

Liping Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Bottom-up lithium growth guided by Ag concentration gradient in 3D PVDF framework towards stable lithium metal anode. <i>Journal of Energy Chemistry</i> , 2022, 65, 666-673.	7.1	27
2	Electrolyte Additives for Improving the High-Temperature Storage Performance of Li-Ion Battery NCM523@Graphite with Overcharge Protection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4759-4766.	4.0	12
3	High adherent polyacrylonitrile as a potential binder for high-capacity Fe ₇ S ₈ cathode. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	3
4	Reaction Mechanism and Structural Evolution of Fluorographite Cathodes in Solid-State K/Na/Li Batteries. <i>Advanced Materials</i> , 2021, 33, e2006118.	11.1	44
5	Potassium-ion battery cathodes: Past, present, and prospects. <i>Journal of Power Sources</i> , 2021, 484, 229307.	4.0	43
6	Fluorinated Carbons as Rechargeable Li-Ion Battery Cathodes in the Voltage Window of 0.5~4.8 V. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30576-30582.	4.0	23
7	FeSO ₄ as a Novel Li-Ion Battery Cathode. <i>Chinese Physics Letters</i> , 2021, 38, 068201.	1.3	2
8	In situ formed Fe ₂ @CoS cathode for long cycling life lithium-ion battery*. <i>Chinese Physics B</i> , 2021, 30, 088201.	0.7	6
9	Prelithiated FeS ₂ cathode with alleviated volume expansion toward improved cycling performance. <i>Solid State Ionics</i> , 2021, 368, 115696.	1.3	8
10	3D oxidized polyacrylonitrile/Ag framework guided bottom-up lithium deposition for dendrite-free lithium metal batteries. <i>Chemical Engineering Journal</i> , 2021, 426, 130780.	6.6	19
11	Advanced High-Performance Potassium-Chalcogen (S, Se, Te) Batteries. <i>Small</i> , 2021, 17, e2004369.	5.2	45
12	Facile Synthesis of Graphene-like Porous Carbon with Densely Populated Co-N Sites as Efficient Bifunctional Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 11545-11554.	2.5	8
13	Delithiation-driven topotactic reaction endows superior cycling performances for high-energy-density FeS (1.14) cathodes. <i>Energy Storage Materials</i> , 2021, 43, 579-584.	9.5	27
14	Honeycomb-like porous carbon with N and S dual-doping as metal-free catalyst for the oxygen reduction reaction. <i>Carbon</i> , 2020, 156, 514-522.	5.4	80
15	Electronic structure modulation of bifunctional oxygen catalysts for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1229-1237.	5.2	26
16	Direct Observation of Li Migration into V ₅ S ₈ : Order to Antisite Disorder Intercalation Followed by the Topotactic-Based Conversion Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36320-36328.	4.0	9
17	Understanding the electrochemical properties and phase transformations of layered VOPO ₄ ·xH ₂ O as a potassium-ion battery cathode. <i>Journal of Power Sources</i> , 2020, 480, 228864.	4.0	9
18	Unraveling the Reaction Mechanism of FeS ₂ as a Li-Ion Battery Cathode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44850-44857.	4.0	71

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19	Chlorine-doped SnO ₂ hydrophobic surfaces for large grain perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 11638-11646.	2.7	40
20	Multifunctional Integration of Double-Shell Hybrid Nanostructure for Alleviating Surface Degradation of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ Cathode for Advanced Lithium-ion Batteries at High Cutoff Voltage. ACS Applied Materials & Interfaces, 2020, 12, 9268-9276.	4.0	66
21	Electrolyte-assisted dissolution-recrystallization mechanism towards high energy density and power density CF cathodes in potassium cell. Nano Energy, 2020, 70, 104552.	8.2	41
22	Li-free Cathode Materials for High Energy Density Lithium Batteries. Joule, 2019, 3, 2086-2102.	11.7	239
23	Salt-concentrated electrolytes for graphite anode in potassium ion battery. Solid State Ionics, 2019, 341, 115050.	1.3	33
24	Low-temperature processed yttrium-doped SrSnO ₃ perovskite electron transport layer for planar heterojunction perovskite solar cells with high efficiency. Nano Energy, 2019, 59, 1-9.	8.2	52
25	Interlayered Dendrite-free Lithium Plating for High-performance Lithium-metal Batteries. Advanced Materials, 2019, 31, e1901662.	11.1	78
26	Atomic-scale structural and chemical evolution of Li ₃ V ₂ (PO ₄) ₃ cathode cycled at high voltage window. Nano Research, 2019, 12, 1675-1681.	5.8	8
27	Loofah-derived carbon as an anode material for potassium ion and lithium ion batteries. Electrochimica Acta, 2019, 306, 446-453.	2.6	129
28	Tracking sodium migration in TiS ₂ using <i>in situ</i> TEM. Nanoscale, 2019, 11, 7474-7480.	2.8	26
29	Graphite as a potassium ion battery anode in carbonate-based electrolyte and ether-based electrolyte. Journal of Power Sources, 2019, 409, 24-30.	4.0	203
30	Atomic structure and migration dynamics of MoS ₂ /Li _x MoS ₂ interface. Nano Energy, 2018, 48, 560-568.	8.2	42
31	TiS ₂ as a high performance potassium ion battery cathode in ether-based electrolyte. Energy Storage Materials, 2018, 12, 216-222.	9.5	129
32	Graphene oxide as a filler to improve the performance of PAN-LiClO ₄ flexible solid polymer electrolyte. Solid State Ionics, 2018, 315, 7-13.	1.3	104
33	Long lifespan lithium metal anodes enabled by Al ₂ O ₃ sputter coating. Energy Storage Materials, 2018, 10, 16-23.	9.5	174
34	The effects of lithium salt and solvent on lithium metal anode performance. Solid State Ionics, 2018, 324, 144-149.	1.3	19
35	Anchoring and space-confinement effects to form ultrafine Ru nanoclusters for efficient hydrogen generation. Journal of Materials Chemistry A, 2018, 6, 13859-13866.	5.2	55
36	Influence of PEG Stoichiometry on Structure-Tuned Formation of Self-Assembled Submicron Nickel Particles. Materials, 2018, 11, 222.	1.3	1

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37	Li metal coated with amorphous Li ₃ PO ₄ via magnetron sputtering for stable and long-cycle life lithium metal batteries. <i>Journal of Power Sources</i> , 2017, 342, 175-182.	4.0	181
38	In situ atomic-scale observation of reversible sodium ions migration in layered metal dichalcogenide SnS ₂ nanostructures. <i>Nano Energy</i> , 2017, 32, 302-309.	8.2	69
39	Understanding and suppressing side reactions in Li-air batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2495-2510.	3.2	59
40	New Mechanistic Insight of Low Temperature Crystallization of Anodic TiO ₂ Nanotube Array in Water. <i>Crystal Growth and Design</i> , 2016, 16, 1786-1791.	1.4	28
41	High-Resolution Tracking Asymmetric Lithium Insertion and Extraction and Local Structure Ordering in SnS ₂ . <i>Nano Letters</i> , 2016, 16, 5582-5588.	4.5	58
42	Performance of "Polymer-in-Salt" Electrolyte PAN-LiTFSI Enhanced by Graphene Oxide Filler. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2248-A2252.	1.3	56
43	Self-Powered, Wireless, Remote Meteorologic Monitoring Based on Triboelectric Nanogenerator Operated by Scavenging Wind Energy. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32649-32654.	4.0	76
44	Structure Tracking Aided Design and Synthesis of Li ₃ V ₂ (PO ₄) ₃ Nanocrystals as High-Power Cathodes for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 5712-5718.	3.2	50
45	Atomic-Scale Probing of the Dynamics of Sodium Transport and Intercalation-Induced Phase Transformations in MoS ₂ . <i>ACS Nano</i> , 2015, 9, 11296-11301.	7.3	167
46	A better understanding of the capacity fading mechanisms of Li ₃ V ₂ (PO ₄) ₃ . <i>RSC Advances</i> , 2015, 5, 71684-71691.	1.7	21
47	Improved Electrochemical Performance of LiCoO ₂ Electrodes with ZnO Coating by Radio Frequency Magnetron Sputtering. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15853-15859.	4.0	106
48	A comparative study of Fd-3m and P4332 "LiNi _{0.5} Mn _{1.5} O ₄ ". <i>Solid State Ionics</i> , 2011, 193, 32-38.	1.3	327