Liping Wang

List of Publications by Year
in descending order

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48 papers	3,099 citations	172386 29 h-index	206029 48 g-index
49 all docs	49 docs citations	49 times ranked	4376 citing authors

#	Article	IF	Citations
1	A comparative study of Fd-3m and P4332 â€œLiNi0.5Mn1.5O4â€• Solid State Ionics, 2011, 193, 32-38.	1.3	327
2	Li-free Cathode Materials for High Energy Density Lithium Batteries. Joule, 2019, 3, 2086-2102.	11.7	239
3	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
4	Li metal coated with amorphous Li3PO4 via magnetron sputtering for stable and long-cycle life lithium metal batteries. Journal of Power Sources, 2017, 342, 175-182.	4.0	181
5	Long lifespan lithium metal anodes enabled by Al2O3 sputter coating. Energy Storage Materials, 2018, 10, 16-23.	9.5	174
6	Atomic-Scale Probing of the Dynamics of Sodium Transport and Intercalation-Induced Phase Transformations in MoS₂. ACS Nano, 2015, 9, 11296-11301.	7.3	167
7	TiS2 as a high performance potassium ion battery cathode in ether-based electrolyte. Energy Storage Materials, 2018, 12, 216-222.	9.5	129
8	Loofah-derived carbon as an anode material for potassium ion and lithium ion batteries. Electrochimica Acta, 2019, 306, 446-453.	2.6	129
9	Improved Electrochemical Performance of LiCoO₂ Electrodes with ZnO Coating by Radio Frequency Magnetron Sputtering. ACS Applied Materials & Interfaces, 2014, 6, 15853-15859.	4.0	106
10	Graphene oxide as a filler to improve the performance of PAN-LiClO4 flexible solid polymer electrolyte. Solid State Ionics, 2018, 315, 7-13.	1.3	104
11	Honeycomb-like porous carbon with N and S dual-doping as metal-free catalyst for the oxygen reduction reaction. Carbon, 2020, 156, 514-522.	5.4	80
12	Interlayered Dendriteâ€Free Lithium Plating for Highâ€Performance Lithiumâ€Metal Batteries. Advanced Materials, 2019, 31, e1901662.	11.1	78
13	Self-Powered, Wireless, Remote Meteorologic Monitoring Based on Triboelectric Nanogenerator Operated by Scavenging Wind Energy. ACS Applied Materials & Interfaces, 2016, 8, 32649-32654.	4.0	76
14	Unraveling the Reaction Mechanism of FeS₂ as a Li-Ion Battery Cathode. ACS Applied Materials & Interfaces, 2020, 12, 44850-44857.	4.0	71
15	In situ atomic-scale observation of reversible sodium ions migration in layered metal dichalcogenide SnS2 nanostructures. Nano Energy, 2017, 32, 302-309.	8.2	69
16	Multifunctional Integration of Double-Shell Hybrid Nanostructure for Alleviating Surface Degradation of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode for Advanced Lithium-Ion Batteries at High Cutoff Voltage. ACS Applied Materials & Interfaces, 2020, 12, 9268-9276.	4.0	66
17	Understanding and suppressing side reactions in Liâ€“air batteries. Materials Chemistry Frontiers, 2017, 1, 2495-2510.	3.2	59
18	High-Resolution Tracking Asymmetric Lithium Insertion and Extraction and Local Structure Ordering in SnS₂. Nano Letters, 2016, 16, 5582-5588.	4.5	58

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19	Performance of â€œPolymer-in-Saltâ€•Electrolyte PAN-LiTFSI Enhanced by Graphene Oxide Filler. Journal of the Electrochemical Society, 2016, 163, A2248-A2252.	1.3	56
20	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
21	Low-temperature processed yttrium-doped SrSnO3 perovskite electron transport layer for planar heterojunction perovskite solar cells with high efficiency. Nano Energy, 2019, 59, 1-9.	8.2	52
22	Structure Tracking Aided Design and Synthesis of Li₃V₂(PO₄)₃ Nanocrystals as High-Power Cathodes for Lithium Ion Batteries. Chemistry of Materials, 2015, 27, 5712-5718.	3.2	50
23	Advanced Highâ€Performance Potassiumâ€“Chalcogen (S, Se, Te) Batteries. Small, 2021, 17, e2004369.	5.2	45
24	Reaction Mechanism and Structural Evolution of Fluorographite Cathodes in Solidâ€State K/Na/Li Batteries. Advanced Materials, 2021, 33, e2006118.	11.1	44
25	Potassium-ion battery cathodes: Past, present, and prospects. Journal of Power Sources, 2021, 484, 229307.	4.0	43
26	Atomic structure and migration dynamics of MoS2/LixMoS2 interface. Nano Energy, 2018, 48, 560-568.	8.2	42
27	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
28	Chlorine-doped SnO₂ hydrophobic surfaces for large grain perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 11638-11646.	2.7	40
29	Salt-concentrated electrolytes for graphite anode in potassium ion battery. Solid State Ionics, 2019, 341, 115050.	1.3	33
30	New Mechanistic Insight of Low Temperature Crystallization of Anodic TiO₂ Nanotube Array in Water. Crystal Growth and Design, 2016, 16, 1786-1791.	1.4	28
31	Bottom-up lithium growth guided by Ag concentration gradient in 3D PVDF framework towards stable lithium metal anode. Journal of Energy Chemistry, 2022, 65, 666-673.	7.1	27
32	Delithiation-driven topotactic reaction endows superior cycling performances for high-energy-density FeS (1Âą‰ÂxÂą‰Â1.14) cathodes. Energy Storage Materials, 2021, 43, 579-584.	9.5	27
33	Tracking sodium migration in TiS₂usingin situTEM. Nanoscale, 2019, 11, 7474-7480.	2.8	26
34	Electronic structure modulation of bifunctional oxygen catalysts for rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 1229-1237.	5.2	26
35	Fluorinated Carbons as Rechargeable Li-Ion Battery Cathodes in the Voltage Window of 0.5â€“4.8 V. ACS Applied Materials & Interfaces, 2021, 13, 30576-30582.	4.0	23
36	A better understanding of the capacity fading mechanisms of Li₃V₂(PO₄)₃. RSC Advances, 2015, 5, 71684-71691.	1.7	21

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37	The effects of lithium salt and solvent on lithium metal anode performance. Solid State Ionics, 2018, 324, 144-149.	1.3	19
38	3D oxidized polyacrylonitrile/Ag framework guided bottom-up lithium deposition for dendrite-free lithium metal batteries. Chemical Engineering Journal, 2021, 426, 130780.	6.6	19
39	Electrolyte Additives for Improving the High-Temperature Storage Performance of Li-Ion Battery NCM523â^¥Graphite with Overcharge Protection. ACS Applied Materials & Interfaces, 2022, 14, 4759-4766.	4.0	12
40	Direct Observation of Li Migration into V₅S₈: Order to Antisite Disorder Intercalation Followed by the Topotactic-Based Conversion Reaction. ACS Applied Materials & Interfaces, 2020, 12, 36320-36328.	4.0	9
41	Understanding the electrochemical properties and phase transformations of layered VOPO4â‹…H2O as a potassium-ion battery cathode. Journal of Power Sources, 2020, 480, 228864.	4.0	9
42	Atomic-scale structural and chemical evolution of Li3V2(PO4)3 cathode cycled at high voltage window. Nano Research, 2019, 12, 1675-1681.	5.8	8
43	Prelithiated FeS2 cathode with alleviated volume expansion toward improved cycling performance. Solid State Ionics, 2021, 368, 115696.	1.3	8
44	Facile Synthesis of Graphene-like Porous Carbon with Densely Populated Co-N_x Sites as Efficient Bifunctional Electrocatalysts for Rechargeable Zincâ€“Air Batteries. ACS Applied Energy Materials, 2021, 4, 11545-11554.	2.5	8
45	In situ formed FeS₂@CoS cathode for long cycling life lithium-ion battery*. Chinese Physics B, 2021, 30, 088201.	0.7	6
46	High adherent polyacrylonitrile as a potential binder for high-capacity Fe7S8 cathode. Applied Physics Letters, 2022, 120, .	1.5	3
47	FeSO₄ as a Novel Li-Ion Battery Cathode. Chinese Physics Letters, 2021, 38, 068201.	1.3	2
48	Influence of PEG Stoichiometry on Structure-Tuned Formation of Self-Assembled Submicron Nickel Particles. Materials, 2018, 11, 222.	1.3	1