Jun-Tao Li

List of Publications by Year
in descending order

81	4,879	94433 37	95266 68
papers	citations	h-index	g-index

81	81	81	5718
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interfacial Interaction between FeOOH and Niâ€“Fe LDH to Modulate the Local Electronic Structure for Enhanced OER Electrocatalysis. ACS Catalysis, 2018, 8, 11342-11351.	11.2	414
2	Ordered mesoporous carbon/sulfur nanocomposite of high performances as cathode for lithiumâ€“sulfur battery. Electrochimica Acta, 2011, 56, 9549-9555.	5.2	329
3	A Robust Ionâ€Conductive Biopolymer as a Binder for Si Anodes of Lithiumâ€Ion Batteries. Advanced Functional Materials, 2015, 25, 3599-3605.	14.9	329
4	Water Soluble Binder, an Electrochemical Performance Booster for Electrode Materials with High Energy Density. Advanced Energy Materials, 2017, 7, 1701185.	19.5	248
5	Synthesis of single crystalline hexagonal nanobricks of LiNi1/3Co1/3Mn1/3O2 with high percentage of exposed {010} active facets as high rate performance cathode material for lithium-ion battery. Journal of Materials Chemistry A, 2013, 1, 3860.	10.3	195
6	A high-performance alginate hydrogel binder for the Si/C anode of a Li-ion battery. Chemical Communications, 2014, 50, 6386.	4.1	181
7	Graphitized porous carbon materials with high sulfur loading for lithium-sulfur batteries. Nano Energy, 2017, 32, 503-510.	16.0	118
8	XPS and ToF-SIMS study of Snâ€“Co alloy thin films as anode for lithium ion battery. Journal of Power Sources, 2010, 195, 8251-8257.	7.8	111
9	Layered/spinel heterostructured Li-rich materials synthesized by a one-step solvothermal strategy with enhanced electrochemical performance for Li-ion batteries. Journal of Materials Chemistry A, 2016, 4, 257-263.	10.3	111
10	Multiple hydrogel alginate binders for Si anodes of lithium-ion battery. Electrochimica Acta, 2017, 245, 371-378.	5.2	106
11	Cu²⁺ Dual-Doped Layer-Tunnel Hybrid Na_{0.6}Mn_{1â€“x}Cu_xO₂ as a Cathode of Sodium-Ion Battery with Enhanced Structure Stability, Electrochemical Property, and Air Stability. ACS Applied Materials & Interfaces, 2018, 10, 10147-10156.	8.0	98
12	Facile Synthesis of The Li-Rich Layered Oxide Li_{1.23}Ni_{0.09}Co_{0.12}Mn_{0.56}O₂ with Superior Lithium Storage Performance and New Insights into Structural Transformation of the Layered Oxide Material during Chargeâ€“Discharge Cycle: In Situ XRD Characterization. ACS Applied Materials & Interfaces, 2014, 6, 5516-5524.	8.0	96
13	Controlled synthesis of FeNx-CoNx dual active sites interfaced with metallic Co nanoparticles as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. Applied Catalysis B: Environmental, 2020, 278, 119259.	20.2	92
14	XPS and ToF-SIMS Study of Electrode Processes on Snâˆ’Ni Alloy Anodes for Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 7012-7018.	3.1	89
15	Suppressing the voltage-fading of layered lithium-rich cathode materials via an aqueous binder for Li-ion batteries. Chemical Communications, 2016, 52, 4683-4686.	4.1	85
16	Synergetic Effect of Ru and NiO in the Electrocatalytic Decomposition of Li₂CO₃ to Enhance the Performance of a Li-CO₂/O₂ Battery. ACS Catalysis, 2020, 10, 1640-1651.	11.2	85
17	Engineering the interface between LiCoO₂ and Li₁₀GeP₂S₁₂ solid electrolytes with an ultrathin Li₂CoTi₃O₈ interlayer to boost the performance of all-solid-state batteries. Energy and Environmental Science, 2021, 14, 437-450.	30.8	82
18	XPS, time-of-flight-SIMS and polarization modulation IRRAS study of Cr2O3 thin film materials as anode for lithium ion battery. Electrochimica Acta, 2009, 54, 3700-3707.	5.2	81

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19	Studies of the Interfacial Properties of an Electroplated Sn Thin Film Electrode/Electrolyte Using in Situ MFTIRS and EQCM. Langmuir, 2007, 23, 13174-13180.	3.5	79
20	Layered/Spinel Heterostructured and Hierarchical Micro/Nanostructured Li-Rich Cathode Materials with Enhanced Electrochemical Properties for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 21065-21070.	8.0	79
21	Origin of Structural Evolution in Capacity Degradation for Overcharged NMC622 via Operando Coupled Investigation. ACS Applied Materials & Interfaces, 2017, 9, 24731-24742.	8.0	78
22	Pushing Lithium Cobalt Oxides to 4.7ÂV by Latticeâ€Matched Interfacial Engineering. Advanced Energy Materials, 2022, 12, .	19.5	77
23	Tuning Electrochemical Properties of Li-Rich Layered Oxide Cathodes by Adjusting Co/Ni Ratios and Mechanism Investigation Using in situ X-ray Diffraction and Online Continuous Flow Differential Electrochemical Mass Spectrometry. ACS Applied Materials & Interfaces, 2018, 10, 12666-12677.	8.0	72
24	In Situ Multitechnical Investigation into Capacity Fading of High-Voltage LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂. ACS Applied Materials & Interfaces, 2016, 8, 35323-35335.	8.0	63
25	A Natural Biopolymer Film as a Robust Protective Layer to Effectively Stabilize Lithiumâ€Metal Anodes. Small, 2018, 14, e1801054.	10.0	61
26	Mn-Based Cathode with Synergetic Layered-Tunnel Hybrid Structures and Their Enhanced Electrochemical Performance in Sodium Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 21267-21275.	8.0	60
27	P2-type Na 0.67 Mn 0.72 Ni 0.14 Co 0.14 O 2 with K + doping as new high rate performance cathode material for sodium-ion batteries. Electrochimica Acta, 2016, 216, 51-57.	5.2	59
28	High-performance rechargeable Li-CO2/O2 battery with Ru/N-doped CNT catalyst. Chemical Engineering Journal, 2019, 363, 224-233.	12.7	58
29	New insight into structural transformation in Li-rich layered oxide during the initial charging. Journal of Materials Chemistry A, 2015, 3, 12220-12229.	10.3	57
30	Novel Sulfur Host Composed of Cobalt and Porous Graphitic Carbon Derived from MOFs for the High-Performance Liâ€“S Battery. ACS Applied Materials & Interfaces, 2018, 10, 13499-13508.	8.0	54
31	Cubic MnSâ€“FeS₂ Composites Derived from a Prussian Blue Analogue as Anode Materials for Sodium-Ion Batteries with Long-Term Cycle Stability. ACS Applied Materials & Interfaces, 2020, 12, 43624-43633.	8.0	53
32	Design Criteria for Siliconâ€Based Anode Binders in Half and Full Cells. Advanced Energy Materials, 2022, 12, .	19.5	52
33	Three-Dimensional Networks of S-Doped Fe/N/C with Hierarchical Porosity for Efficient Oxygen Reduction in Polymer Electrolyte Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2018, 10, 14602-14613.	8.0	50
34	Si anode for next-generation lithium-ion battery. Current Opinion in Electrochemistry, 2019, 18, 46-54.	4.8	48
35	From bulk to interface: electrochemical phenomena and mechanism studies in batteries via electrochemical quartz crystal microbalance. Chemical Society Reviews, 2021, 50, 10743-10763.	38.1	48
36	High-Energy Density Li metal Dual-Ion Battery with a Lithium Nitrate-Modified Carbonate-Based Electrolyte. ACS Applied Materials & Interfaces, 2019, 11, 18504-18510.	8.0	47

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37	Achieving high capacity retention in lithium-sulfur batteries with an aqueous binder. Electrochemistry Communications, 2016, 72, 79-82.	4.7	43
38	Boosting the reactivity of Ni2+/Ni3+ redox couple via fluorine doping of high performance Na0.6Mn0.95Ni0.05O2-F cathode. Electrochimica Acta, 2019, 308, 64-73.	5.2	37
39	Fabrication of multi-shell coated silicon nanoparticles via in-situ electroless deposition as high performance anodes for lithium ion batteries. Journal of Energy Chemistry, 2020, 48, 160-168.	12.9	37
40	High-Voltage LiCoO₂ Material Encapsulated in a Li₄Ti₅O₁₂Ultrathin Layer by High-Speed Solid-Phase Coating Process. ACS Applied Energy Materials, 2020, 3, 2593-2603.	5.1	36
41	Improving the Electrochemical Property of Silicon Anodes through Hydrogen-Bonding Cross-Linked Thiourea-Based Polymeric Binders. ACS Applied Materials & Interfaces, 2021, 13, 639-649.	8.0	36
42	Novel MnOâ€“Graphite Dual-Ion Battery and New Insights into Its Reaction Mechanism during Initial Cycle by Operando Techniques. ACS Applied Materials & Interfaces, 2019, 11, 12570-12577.	8.0	35
43	Coreâ€“Shell Structured S@Co(OH)₂ with a Carbon-Nanofiber Interlayer: A Conductive Cathode with Suppressed Shuttling Effect for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 4065-4073.	8.0	35
44	Suppressing Li dendrite by a protective biopolymeric film from tamarind seed polysaccharide for high-performance Li metal anode. Electrochimica Acta, 2019, 299, 636-644.	5.2	34
45	Unexpected effects of zirconium-doping in the high performance sodium manganese-based layer-tunnel cathode. Journal of Materials Chemistry A, 2018, 6, 13934-13942.	10.3	32
46	A solid-state dendrite-free lithium-metal battery with improved electrode interphase and ion conductivity enhanced by a bifunctional solid plasticizer. Journal of Materials Chemistry A, 2019, 7, 19565-19572.	10.3	32
47	NiCo₂O₄/CNF Separator Modifiers for Trapping and Catalyzing Polysulfides for High-Performance Lithiumâ€“Sulfur Batteries with High Sulfur Loadings and Lean Electrolytes. ACS Sustainable Chemistry and Engineering, 2021, 9, 1804-1813.	6.7	31
48	Sodiumâ€Alginateâ€Based Binders for Lithiumâ€Rich Cathode Materials in Lithiumâ€Ion Batteries to Suppress Voltage and Capacity Fading. ChemElectroChem, 2018, 5, 1321-1329.	3.4	29
49	Ultrahigh sulfur content up to 93Âwt% encapsulated in multilayer nanoshell of V/V2O5 composite to suppress shuttle effect of lithiumâ€“sulfur battery with high-performance. Materials Today Energy, 2019, 13, 267-276.	4.7	29
50	Suppressing lithium dendrite growth by a synergetic effect of uniform nucleation and inhibition. Journal of Materials Chemistry A, 2020, 8, 4300-4307.	10.3	29
51	Ion-Doping-Site-Variation-Induced Composite Cathode Adjustment: A Case Study of Layerâ€“Tunnel Na_{0.6}MnO₂ with Mg²⁺ Doping at Na/Mn Site. ACS Applied Materials & Interfaces, 2019, 11, 26938-26945.	8.0	28
52	High-performance Si Mn/C composite anodes with integrating inactive Mn4Si7 alloy for lithium-ion batteries. Electrochimica Acta, 2018, 260, 830-837.	5.2	26
53	Aluminum-Based Metalâ€“Organic Frameworks Derived Al₂O₃-Loading Mesoporous Carbon as a Host Matrix for Lithium-Metal Anodes. ACS Applied Materials & Interfaces, 2019, 11, 47939-47947.	8.0	26
54	Preparation of intergrown P/O-type biphasic layered oxides as high-performance cathodes for sodium ion batteries. Journal of Materials Chemistry A, 2021, 9, 13151-13160.	10.3	26

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55	Multivalent Amide-Hydrogen-Bond Supramolecular Binder Enhances the Cyclic Stability of Silicon-Based Anodes for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 22567-22576.	8.0	26
56	Tuning the component ratio and corresponding sodium storage properties of layer-tunnel hybrid Na0.6Mn1-Ni O2 cathode by a simple cationic Ni2+ doping strategy. Electrochimica Acta, 2018, 273, 63-70.	5.2	23
57	Revealing of the Activation Pathway and Cathode Electrolyte Interphase Evolution of Li-Rich 0.5Li₂MnO₃Â·0.5LiNi_{0.3}Co_{0.3}Mn_{0.4}O₂ Cathode by in Situ Electrochemical Quartz Crystal Microbalance. ACS Applied Materials & Interfaces, 2019, 11, 16214-16222.	8.0	23
58	Stabilized and Almost Dendrite-Free Li Metal Anodes by In Situ Construction of a Composite Protective Layer for Li Metal Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5298-5307.	8.0	22
59	Surface combinatorial studies of IR properties of nanostructured Ru film electrodes using CO as probe molecule. Electrochimica Acta, 2003, 48, 2933-2942.	5.2	21
60	Co/Li-dual-site doping towards LiCoO₂ as a high-voltage, fast-charging, and long-cycling cathode material. Journal of Materials Chemistry A, 2022, 10, 5295-5304.	10.3	21
61	Co3O4@(Fe-Doped)Co(OH)2 Microfibers: Facile Synthesis, Oriented-Assembly, Formation Mechanism, and High Electrocatalytic Activity. ACS Applied Materials & Interfaces, 2017, 9, 30880-30890.	8.0	20
62	Fabrication of Si Nanoparticles@Conductive Carbon Framework@Polymer Composite as Highâ€Arealâ€Capacity Anode of Lithiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 3258-3265.	3.4	20
63	Enabling Lithium-Metal Anode Encapsulated in a 3D Carbon Skeleton with a Superior Rate Performance and Capacity Retention in Full Cells. ACS Applied Materials & Interfaces, 2018, 10, 35296-35305.	8.0	19
64	Understanding the role of water-soluble guar gum binder in reducing capacity fading and voltage decay of Li-rich cathode for Li-ion batteries. Electrochimica Acta, 2020, 351, 136401.	5.2	16
65	A dual force cross-linked Î³-PGA-PAA binder enhancing the cycle stability of silicon-based anodes for lithium-ion batteries. Electrochimica Acta, 2022, 425, 140704.	5.2	15
66	Influence of Carbonate Solvents on Solid Electrolyte Interphase Composition over Si Electrodes Monitored by In Situ and Ex Situ Spectroscopies. ACS Omega, 2021, 6, 27335-27350.	3.5	14
67	Improving the Electrochemical Performance of Li_{1.14}Ni_{0.18}Mn_{0.62}O₂ by Modulating Structure Defects via a Molten Salt Method. ChemElectroChem, 2016, 3, 98-104.	3.4	13
68	A Synergistic Effect in a Composite Cathode Consisting of Spinel and Layered Structures To Increase the Electrochemical Performance for Li-Ion Batteries. Journal of Physical Chemistry C, 2016, 120, 25647-25656.	3.1	13
69	High Cycling Performance Liâ€S Battery via Fenugreek Gum Binder Through Chemical Bonding of the Binder with Polysulfides in Nanosulfur@CNFs Cathode. ChemistrySelect, 2020, 5, 8969-8979.	1.5	11
70	Interfacial Electron Delocalization in Engineering Nanosized Anti-Perovskite Nitride for Efficient CO₂ Electroreduction. Chemistry of Materials, 2022, 34, 5607-5620.	6.7	11
71	Sulfur Microspheres Encapsulated in Porous Silverâ€Based Shell with Superior Performance for Lithiumâ€Sulfur Batteries. ChemElectroChem, 2018, 5, 1683-1690.	3.4	9
72	Heteroatom-rich polymers as a protective film to control lithium growth for high-performance lithium-metal batteries. Journal of Power Sources, 2022, 521, 230949.	7.8	9

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73	RuO2 nanoparticles supported on Ni and N co-doped carbon nanotubes as an efficient bifunctional electrocatalyst of lithium-oxygen battery. Science China Materials, 2021, 64, 2397-2408.	6.3	8
74	Aluminum-sulfur composites for Li S batteries with a high-rate performance. Composites Part B: Engineering, 2019, 164, 740-746.	12.0	7
75	Germanium Crystalline Nanomaterials for Li-Ion Storage Prepared by Decomposing LiZnGe in Air. ACS Applied Materials & Interfaces, 2020, 12, 50756-50762.	8.0	7
76	Formulating a New Electrolyte: Synergy between Low-Polar and Non-polar Solvents in Tailoring the Solid Electrolyte Interface for the Silicon Anode. ACS Applied Materials & Interfaces, 2021, 13, 55700-55711.	8.0	7
77	Synthesis-cum-assembly toward hierarchical nanoarchitectures. Coordination Chemistry Reviews, 2017, 352, 291-305.	18.8	6
78	The Si@Câ€Network Electrode Prepared by an Inâ€…Situ Carbonization Strategy with Enhanced Cycle Performance. ChemElectroChem, 2020, 7, 4999-5004.	3.4	4
79	Controlled Synthesis of Porous Hollow Feâ€“N/C Nanoshells as Highâ€Performance Oxygen Reduction Reaction Electrocatalysts for Znâ€“Air Battery. Energy Technology, 2021, 9, 2100142.	3.8	4
80	Customizing Multifunctional Sulfur Host Materials Via a General Anionâ€Exchange Process with Metalâ€“Organic Solid. Advanced Functional Materials, 2021, 31, 2104513.	14.9	4
81	Electron/ion Conductor Double-coated LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Li-ion Battery Cathode Material and Its Electrochemical Performance. Acta Chimica Sinica, 2022, 80, 485.	1.4	0