Chao Luo

List of Publications by Year
in descending order

83	11,444	36691 53	64407 83
papers	citations	h-index	g-index

84	84	84	13203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	â€œWater-in-saltâ€•electrolyte enables high-voltage aqueous lithium-ion chemistries. Science, 2015, 350, 938-943.	6.0	2,553
2	Comparison of electrochemical performances of olivine NaFePO₄in sodium-ion batteries and olivine LiFePO₄in lithium-ion batteries. Nanoscale, 2013, 5, 780-787.	2.8	420
3	Selenium@Mesoporous Carbon Composite with Superior Lithium and Sodium Storage Capacity. ACS Nano, 2013, 7, 8003-8010.	7.3	393
4	An Advanced MoS₂/Carbon Anode for High-Performance Sodium-Ion Batteries. Small, 2015, 11, 473-481.	5.2	390
5	Red Phosphorusâ€“Single-Walled Carbon Nanotube Composite as a Superior Anode for Sodium Ion Batteries. ACS Nano, 2015, 9, 3254-3264.	7.3	359
6	High-Performance All-Solid-State Lithiumâ€“Sulfur Battery Enabled by a Mixed-Conductive Li₂S Nanocomposite. Nano Letters, 2016, 16, 4521-4527.	4.5	333
7	High power rechargeable magnesium/iodine battery chemistry. Nature Communications, 2017, 8, 14083.	5.8	251
8	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electrospray/Electrospinning Technique for Liâ€ion Batteries. Advanced Energy Materials, 2015, 5, 1400753.	10.2	247
9	Organic Electrode Materials for Metal Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 5361-5380.	4.0	231
10	Enhancing the Reversibility of Mg/S Battery Chemistry through Li⁺ Mediation. Journal of the American Chemical Society, 2015, 137, 12388-12393.	6.6	225
11	Copperâ€Stabilized Sulfurâ€Microporous Carbon Cathodes for Liâ€“S Batteries. Advanced Functional Materials, 2014, 24, 4156-4163.	7.8	200
12	Electrospun FeS₂@Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. ACS Nano, 2016, 10, 1529-1538.	7.3	199
13	Superior Stable Selfâ€Healing SnP₃ Anode for Sodiumâ€ion Batteries. Advanced Energy Materials, 2015, 5, 1500174.	10.2	197
14	Self-Assembled Organic Nanowires for High Power Density Lithium Ion Batteries. Nano Letters, 2014, 14, 1596-1602.	4.5	187
15	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 7146-7150.	7.2	177
16	Solid-State Fabrication of SnS₂/C Nanospheres for High-Performance Sodium Ion Battery Anode. ACS Applied Materials & Interfaces, 2015, 7, 11476-11481.	4.0	176
17	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie - International Edition, 2019, 58, 17820-17826.	7.2	173
18	Azo compounds as a family of organic electrode materials for alkali-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2004-2009.	3.3	168

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19	A Highly Reversible, Dendriteâ€Free Lithium Metal Anode Enabled by a Lithiumâ€Fluorideâ€Enriched Interphase. Advanced Materials, 2020, 32, e1906427.	11.1	168
20	Self-Templated Formation of P2-type K_{0.6}CoO₂ Microspheres for High Reversible Potassium-Ion Batteries. Nano Letters, 2018, 18, 1522-1529.	4.5	167
21	Carbonized Polyacrylonitrileâ€Stabilized SeS_x Cathodes for Long Cycle Life and High Power Density Lithium Ion Batteries. Advanced Functional Materials, 2014, 24, 4082-4089.	7.8	165
22	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 2879-2883.	7.2	159
23	Layered P2â€Type K_{0.65}Fe_{0.5}Mn_{0.5}O₂ Microspheres as Superior Cathode for Highâ€Energy Potassiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1800219.	7.8	157
24	Tuning the Anodeâ€“Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	11.1	156
25	Hybrid Mg²⁺/Li⁺ Battery with Long Cycle Life and High Rate Capability. Advanced Energy Materials, 2015, 5, 1401507.	10.2	155
26	An Organic Anode for High Temperature Potassiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1802986.	10.2	151
27	Recent advances in developing organic electrode materials for multivalent rechargeable batteries. Energy and Environmental Science, 2020, 13, 3950-3992.	15.6	148
28	Graphene oxide wrapped croconic acid disodium salt for sodium ion battery electrodes. Journal of Power Sources, 2014, 250, 372-378.	4.0	134
29	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Liâ€Ion Batteries. Advanced Materials, 2018, 30, e1706498.	11.1	134
30	Lithiophilic Zn Sites in Porous CuZn Alloy Induced Uniform Li Nucleation and Dendrite-free Li Metal Deposition. Nano Letters, 2020, 20, 2724-2732.	4.5	134
31	Superior reversible tin phosphide-carbon spheres for sodium ion battery anode. Nano Energy, 2017, 38, 350-357.	8.2	122
32	Strategies in Structure and Electrolyte Design for Highâ€Performance Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, 2009694.	7.8	122
33	In situ formed carbon bonded and encapsulated selenium composites for Liâ€“Se and Naâ€“Se batteries. Journal of Materials Chemistry A, 2015, 3, 555-561.	5.2	115
34	Scalable synthesis of Na₃V₂(PO₄)₃/C porous hollow spheres as a cathode for Na-ion batteries. Journal of Materials Chemistry A, 2015, 3, 10378-10385.	5.2	109
35	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie - International Edition, 2018, 57, 8567-8571.	7.2	103
36	A chemically stabilized sulfur cathode for lean electrolyte lithium sulfur batteries. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14712-14720.	3.3	102

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37	Self-Healing Chemistry between Organic Material and Binder for Stable Sodium-Ion Batteries. CheM, 2017, 3, 1050-1062.	5.8	99
38	Existence of Solid Electrolyte Interphase in Mg Batteries: Mg/S Chemistry as an Example. ACS Applied Materials & Interfaces, 2018, 10, 14767-14776.	4.0	99
39	PEDOT Encapsulated FeOF Nanorod Cathodes for High Energy Lithium-Ion Batteries. Nano Letters, 2015, 15, 7650-7656.	4.5	96
40	P2-type transition metal oxides for high performance Na-ion battery cathodes. Journal of Materials Chemistry A, 2017, 5, 18214-18220.	5.2	93
41	Building Self-Healing Alloy Architecture for Stable Sodium-Ion Battery Anodes: A Case Study of Tin Anode Materials. ACS Applied Materials & Interfaces, 2016, 8, 7147-7155.	4.0	92
42	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. Nano Energy, 2015, 13, 537-545.	8.2	91
43	Pomegranate-Structured Conversion-Reaction Cathode with a Built-in Li Source for High-Energy Li-Ion Batteries. ACS Nano, 2016, 10, 5567-5577.	7.3	88
44	Insight into the Capacity Fading Mechanism of Amorphous Se₂S₅ Confined in Micro/Mesoporous Carbon Matrix in Ether-Based Electrolytes. Nano Letters, 2016, 16, 2663-2673.	4.5	83
45	Activation of Oxygenâ€Stabilized Sulfur for Li and Na Batteries. Advanced Functional Materials, 2016, 26, 745-752.	7.8	80
46	Hierarchically structured polyacrylonitrile nanofiber mat as highly efficient lead adsorbent for water treatment. Chemical Engineering Journal, 2015, 262, 775-784.	6.6	78
47	Atomic-Layer-Deposition Functionalized Carbonized Mesoporous Wood Fiber for High Sulfur Loading Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2017, 9, 14801-14807.	4.0	77
48	Carbon cage encapsulating nano-cluster Li2S by ionic liquid polymerization and pyrolysis for high performance Liâ€“S batteries. Nano Energy, 2015, 13, 467-473.	8.2	76
49	A Covalent Organic Framework for Fast-Charge and Durable Rechargeable Mg Storage. Nano Letters, 2020, 20, 3880-3888.	4.5	72
50	Novel Lignin-Derived Water-Soluble Binder for Micro Silicon Anode in Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 12621-12629.	3.2	68
51	In situ lithiated FeF3/C nanocomposite as high energy conversion-reaction cathode for lithium-ion batteries. Journal of Power Sources, 2016, 307, 435-442.	4.0	64
52	Solidâ€State Lithium/Seleniumâ€“Sulfur Chemistry Enabled via a Robust Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2019, 9, 1802235.	10.2	63
53	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	8.8	59
54	Mechanism study of selective heavy metal ion removal with polypyrrole-functionalized polyacrylonitrile nanofiber mats. Applied Surface Science, 2014, 316, 245-250.	3.1	54

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55	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie, 2018, 130, 7264-7268.	1.6	51
56	A carboxylate group-based organic anode for sustainable and stable sodium ion batteries. Journal of Power Sources, 2020, 453, 227904.	4.0	46
57	One-pot preparation of polyimide/Fe 3 O 4 magnetic nanofibers with solvent resistant properties. Composites Science and Technology, 2016, 133, 97-103.	3.8	41
58	Highly reversible Zn metal anode enabled by sustainable hydroxyl chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	41
59	A new squaraine and Hg²⁺-based chemosensor with tunable measuring range for thiol-containing amino acids. New Journal of Chemistry, 2011, 35, 45-48.	1.4	39
60	Waterâ€Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. Small, 2020, 16, e2000741.	5.2	34
61	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 2929-2933.	1.6	33
62	Organic electrode materials for non-aqueous, aqueous, and all-solid-state Na-ion batteries. Journal of Materials Chemistry A, 2021, 9, 19083-19115.	5.2	33
63	Natural Cocoons Enabling Flexible and Stable Fabric Lithiumâ€“Sulfur Full Batteries. Nano-Micro Letters, 2021, 13, 84.	14.4	30
64	Lignin derived Si@C composite as a high performance anode material for lithium ion batteries. Solid State Ionics, 2018, 319, 77-82.	1.3	29
65	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie, 2018, 130, 8703-8707.	1.6	29
66	Layer-by-Layer Surface Molecular Imprinting on Polyacrylonitrile Nanofiber Mats. Journal of Physical Chemistry A, 2015, 119, 6661-6667.	1.1	28
67	Lignin-Derived Nitrogen-Doped Porous Carbon as a High-Rate Anode Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A423-A428.	1.3	24
68	The synthesis and 1O2 photosensitization of halogenated asymmetric aniline-based squaraines. New Journal of Chemistry, 2011, 35, 1128.	1.4	22
69	Exploiting Pulping Waste as an Ecofriendly Multifunctional Binder for Lithium Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 8413-8418.	3.2	21
70	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie, 2019, 131, 17984-17990.	1.6	19
71	Controlled growth of polyhedral and plate-like Ag nanocrystals on a nanofiber mat as a SERS substrate. Analyst, The, 2015, 140, 5190-5197.	1.7	13
72	A conjugated tetracarboxylate anode for stable and sustainable Na-ion batteries. Chemical Communications, 2021, 57, 2360-2363.	2.2	12

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73	Synergy of carbonyl and azo chemistries for wide-temperature-range rechargeable aluminum organic batteries. Nano Energy, 2022, 101, 107554.	8.2	12
74	Sodium-Ion Batteries: An Advanced MoS₂/Carbon Anode for High-Performance Sodium-Ion Batteries (Small 4/2015). Small, 2015, 11, 472-472.	5.2	11
75	The effects of micellar media on the photocatalytic H2 production from water. International Journal of Hydrogen Energy, 2011, 36, 10593-10599.	3.8	10
76	Rational Design of Coreâ€“Shell-Structured Particles by a One-Step and Template-Free Process for High-Performance Lithium/Sodium-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 22232-22240.	1.5	10
77	Multiâ€Functionalized Polymers as Organic Cathodes for Sustainable Sodium/Potassiumâ€Ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	9
78	A Fourâ€Armed Polyacrylic Acid Homopolymer Binder with Enhanced Performance for SiO_x/Graphite Anode. Macromolecular Materials and Engineering, 2021, 306, .	1.7	8
79	Tin phosphide nanoparticles loaded on multi-walled carbon nanotubes networks as a superior anode material for lithium ion batteries. Applied Surface Science, 2021, 556, 149764.	3.1	8
80	Supramolecular assembly of a new squaraine and Î²-cyclodextrin for detection of thiol-containing amino acids in water. Supramolecular Chemistry, 2011, 23, 657-662.	1.5	6
81	Nonaqueous Mg Flow Battery with a Polymer Catholyte. ACS Applied Energy Materials, 2022, 5, 2675-2678.	2.5	6
82	Establishing substitution rules of functional groups for high-capacity organic anode materials in Na-ion batteries. Journal of Power Sources, 2022, 533, 231383.	4.0	5
83	Multifunctional Organic Electrode Materials for Sustainable and Fast-Charging Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 491-491.	0.0	0