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	Nonaqueous Mg Flow Battery with a Polymer Catholyte. ACS Applied Energy Materials, 2022, 5, 2675-2678.	2.5	6
2	Multiâ€Functionalized Polymers as Organic Cathodes for Sustainable Sodium/Potassiumâ€Ion Batteries. Batteries and Supercaps, 2022, 5, .	2.4	9
3	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
4	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
5	Synergy of carbonyl and azo chemistries for wide-temperature-range rechargeable aluminum organic batteries. Nano Energy, 2022, 101, 107554.	8.2	12
6	A Fourâ€Armed Polyacrylic Acid Homopolymer Binder with Enhanced Performance for SiO_x/Graphite Anode. Macromolecular Materials and Engineering, 2021, 306, .	1.7	8
7	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
8	Strategies in Structure and Electrolyte Design for Highâ€Performance Lithium Metal Batteries. Advanced Functional Materials, 2021, 31, 2009694.	7.8	122
9	Natural Cocoons Enabling Flexible and Stable Fabric Lithiumâ€“Sulfur Full Batteries. Nano-Micro Letters, 2021, 13, 84.	14.4	30
10	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
11	A conjugated tetracarboxylate anode for stable and sustainable Na-ion batteries. Chemical Communications, 2021, 57, 2360-2363.	2.2	12
12	Multifunctional Organic Electrode Materials for Sustainable and Fast-Charging Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 491-491.	0.0	0
13	Organic Electrode Materials for Metal Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 5361-5380.	4.0	231
14	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	8.8	59
15	Recent advances in developing organic electrode materials for multivalent rechargeable batteries. Energy and Environmental Science, 2020, 13, 3950-3992.	15.6	148
16	Tuning the Anodeâ€“Electrolyte Interface Chemistry for Garnetâ€Based Solidâ€State Li Metal Batteries. Advanced Materials, 2020, 32, e2000030.	11.1	156
17	Waterâ€Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. Small, 2020, 16, e2000741.	5.2	34
18	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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19	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
20	A carboxylate group-based organic anode for sustainable and stable sodium ion batteries. Journal of Power Sources, 2020, 453, 227904.	4.0	46
21	A Highly Reversible, Dendriteâ€Free Lithium Metal Anode Enabled by a Lithiumâ€Fluorideâ€Enriched Interphase. Advanced Materials, 2020, 32, e1906427.	11.1	168
22	A Covalent Organic Framework for Fast-Charge and Durable Rechargeable Mg Storage. Nano Letters, 2020, 20, 3880-3888.	4.5	72
23	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie - International Edition, 2019, 58, 17820-17826.	7.2	173
24	A Pyrazineâ€Based Polymer for Fastâ€Charge Batteries. Angewandte Chemie, 2019, 131, 17984-17990.	1.6	19
25	Exploiting Pulping Waste as an Ecofriendly Multifunctional Binder for Lithium Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 8413-8418.	3.2	21
26	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
27	An Organic Anode for High Temperature Potassiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1802986.	10.2	151
28	Solidâ€State Lithium/Seleniumâ€“Sulfur Chemistry Enabled via a Robust Solidâ€Electrolyte Interphase. Advanced Energy Materials, 2019, 9, 1802235.	10.2	63
29	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
30	Azo Compounds Derived from Electrochemical Reduction of Nitro Compounds for High Performance Liâ€Ion Batteries. Advanced Materials, 2018, 30, e1706498.	11.1	134
31	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
32	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 2879-2883.	7.2	159
33	Reversible Redox Chemistry of Azo Compounds for Sodiumâ€Ion Batteries. Angewandte Chemie, 2018, 130, 2929-2933.	1.6	33
34	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
35	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
36	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie, 2018, 130, 7264-7268.	1.6	51

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37	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 7146-7150.	7.2	177
38	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
39	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
40	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
41	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
42	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie, 2018, 130, 8703-8707.	1.6	29
43	High power rechargeable magnesium/iodine battery chemistry. Nature Communications, 2017, 8, 14083.	5.8	251
44	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
45	Superior reversible tin phosphide-carbon spheres for sodium ion battery anode. Nano Energy, 2017, 38, 350-357.	8.2	122
46	Self-Healing Chemistry between Organic Material and Binder for Stable Sodium-Ion Batteries. CheM, 2017, 3, 1050-1062.	5.8	99
47	P2-type transition metal oxides for high performance Na-ion battery cathodes. Journal of Materials Chemistry A, 2017, 5, 18214-18220.	5.2	93
48	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
49	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
50	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
51	Activation of Oxygenâ€Stabilized Sulfur for Li and Na Batteries. Advanced Functional Materials, 2016, 26, 745-752.	7.8	80
52	High-Performance All-Solid-State Lithiumâ€“Sulfur Battery Enabled by a Mixed-Conductive Li₂S Nanocomposite. Nano Letters, 2016, 16, 4521-4527.	4.5	333
53	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
54	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

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55	Electrospun FeS₂@Carbon Fiber Electrode as a High Energy Density Cathode for Rechargeable Lithium Batteries. ACS Nano, 2016, 10, 1529-1538.	7.3	199
56	Superior Stable Selfâ€Healing SnP₃ Anode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500174.	10.2	197
57	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
58	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
59	Red Phosphorusâ€“Single-Walled Carbon Nanotube Composite as a Superior Anode for Sodium Ion Batteries. ACS Nano, 2015, 9, 3254-3264.	7.3	359
60	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
61	Layer-by-Layer Surface Molecular Imprinting on Polyacrylonitrile Nanofiber Mats. Journal of Physical Chemistry A, 2015, 119, 6661-6667.	1.1	28
62	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. Nano Energy, 2015, 13, 537-545.	8.2	91
63	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
64	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
65	PEDOT Encapsulated FeOF Nanorod Cathodes for High Energy Lithium-Ion Batteries. Nano Letters, 2015, 15, 7650-7656.	4.5	96
66	Enhancing the Reversibility of Mg/S Battery Chemistry through Li⁺ Mediation. Journal of the American Chemical Society, 2015, 137, 12388-12393.	6.6	225
67	â€œWater-in-saltâ€•electrolyte enables high-voltage aqueous lithium-ion chemistries. Science, 2015, 350, 938-943.	6.0	2,553
68	Hybrid Mg²⁺/Li⁺ Battery with Long Cycle Life and High Rate Capability. Advanced Energy Materials, 2015, 5, 1401507.	10.2	155
69	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
70	Hierarchically structured polyacrylonitrile nanofiber mat as highly efficient lead adsorbent for water treatment. Chemical Engineering Journal, 2015, 262, 775-784.	6.6	78
71	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
72	An Advanced MoS₂/Carbon Anode for High-Performance Sodium-Ion Batteries. Small, 2015, 11, 473-481.	5.2	390

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73	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
74	Copperâ€Stabilized Sulfurâ€Microporous Carbon Cathodes for Liâ€“S Batteries. Advanced Functional Materials, 2014, 24, 4156-4163.	7.8	200
75	Mechanism study of selective heavy metal ion removal with polypyrrole-functionalized polyacrylonitrile nanofiber mats. Applied Surface Science, 2014, 316, 245-250.	3.1	54
76	Graphene oxide wrapped croconic acid disodium salt for sodium ion battery electrodes. Journal of Power Sources, 2014, 250, 372-378.	4.0	134
77	Self-Assembled Organic Nanowires for High Power Density Lithium Ion Batteries. Nano Letters, 2014, 14, 1596-1602.	4.5	187
78	Selenium@Mesoporous Carbon Composite with Superior Lithium and Sodium Storage Capacity. ACS Nano, 2013, 7, 8003-8010.	7.3	393
79	Comparison of electrochemical performances of olivine NaFePO₄in sodium-ion batteries and olivine LiFePO₄in lithium-ion batteries. Nanoscale, 2013, 5, 780-787.	2.8	420
80	The synthesis and 1O2 photosensitization of halogenated asymmetric aniline-based squaraines. New Journal of Chemistry, 2011, 35, 1128.	1.4	22
81	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
82	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
83	The effects of micellar media on the photocatalytic H2 production from water. International Journal of Hydrogen Energy, 2011, 36, 10593-10599.	3.8	10