Zelang Jian

List of Publications by Year
in descending order

48 papers	8,352 citations	172443 29 h-index	214788 47 g-index
51 all docs	51 docs citations	51 times ranked	7418 citing authors

#	Article	IF	Citations
1	Carbon Electrodes for K-Ion Batteries. Journal of the American Chemical Society, 2015, 137, 11566-11569.	13.7	1,559
2	Superior Electrochemical Performance and Storage Mechanism of Na₃V₂(PO₄)₃ Cathode for Roomâ€Temperature Sodiumâ€Ion Batteries. Advanced Energy Materials, 2013, 3, 156-160.	19.5	817
3	Hard Carbon Microspheres: Potassiumâ€Ion Anode Versus Sodiumâ€Ion Anode. Advanced Energy Materials, 2016, 6, 1501874.	19.5	814
4	Potassium Secondary Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4404-4419.	8.0	721
5	Hardâ€“Soft Composite Carbon as a Longâ€Cycling and Highâ€Rate Anode for Potassiumâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1700324.	14.9	471
6	NASICONâ€Structured Materials for Energy Storage. Advanced Materials, 2017, 29, 1601925.	21.0	394
7	Burning lithium in CS2 for high-performing compact Li2Sâ€“graphene nanocapsules for Liâ€“SÂbatteries. Nature Energy, 2017, 2, .	39.5	349
8	Mechanism of Naâ€Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. Advanced Energy Materials, 2017, 7, 1602894.	19.5	332
9	Atomic Structure and Kinetics of NASICON Na_xV₂(PO₄)₃ Cathode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2014, 24, 4265-4272.	14.9	323
10	Low-Surface-Area Hard Carbon Anode for Na-Ion Batteries via Graphene Oxide as a Dehydration Agent. ACS Applied Materials & Interfaces, 2015, 7, 2626-2631.	8.0	226
11	Electrochemically Expandable Soft Carbon as Anodes for Na-Ion Batteries. ACS Central Science, 2015, 1, 516-522.	11.3	202
12	Polynanocrystalline Graphite: A New Carbon Anode with Superior Cycling Performance for K-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4343-4351.	8.0	200
13	Insights on the Mechanism of Na-Ion Storage in Soft Carbon Anode. Chemistry of Materials, 2017, 29, 2314-2320.	6.7	177
14	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by PO_x Doping. ACS Energy Letters, 2016, 1, 395-401.	17.4	172
15	Hydroniumâ€Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode. Angewandte Chemie - International Edition, 2017, 56, 2909-2913.	13.8	169
16	Hard carbon anodes of sodium-ion batteries: undervalued rate capability. Chemical Communications, 2017, 53, 2610-2613.	4.1	167
17	Defective Hard Carbon Anode for Na-Ion Batteries. Chemistry of Materials, 2018, 30, 4536-4542.	6.7	158
18	A new low-voltage plateau of Na₃V₂(PO₄)₃as an anode for Na-ion batteries. Chemical Communications, 2015, 51, 6381-6383.	4.1	135

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19	A Hydrocarbon Cathode for Dual-Ion Batteries. ACS Energy Letters, 2016, 1, 719-723.	17.4	124
20	Li₃VO₄ anchored graphene nanosheets for long-life and high-rate lithium-ion batteries. Chemical Communications, 2015, 51, 229-231.	4.1	107
21	A Highâ€Power Symmetric Naâ€Ion Pseudocapacitor. Advanced Functional Materials, 2015, 25, 5778-5785.	14.9	105
22	High Energy Density Aqueous Electrochemical Capacitors with a KI-KOH Electrolyte. ACS Applied Materials & Interfaces, 2015, 7, 19978-19985.	8.0	83
23	New Paradigms on the Nature of Solid Electrolyte Interphase Formation and Capacity Fading of Hard Carbon Anodes in Naâ€Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1600449.	3.7	74
24	Hydroniumâ€Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode. Angewandte Chemie, 2017, 129, 2955-2959.	2.0	53
25	Hierarchical Copper Sulfide Porous Nanocages for Rechargeable Multivalent-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 10471-10478.	8.0	48
26	N-Doped carbon coated bismuth nanorods with a hollow structure as an anode for superior-performance potassium-ion batteries. Nanoscale, 2020, 12, 4309-4313.	5.6	41
27	The Quest for Stable Potassiumâ€Ion Battery Chemistry. Advanced Materials, 2022, 34, e2106876.	21.0	41
28	The low-temperature (400 Â°C) coating of few-layer graphene on porous Li4Ti5O12via C28H16Br2 pyrolysis for lithium-ion batteries. RSC Advances, 2012, 2, 1751.	3.6	40
29	Boosting the Electrochemical Performance of Li_{1.2}Ni_{0.13}Co_{0.13}Mn_{0.54}O₂ by Rough Coating with the Superionic Conductor Li₇La₃Zr₂O₁₂. ACS Applied Materials & Interfaces, 2021, 13, 54916-54923.	8.0	20
30	Organic Ammonium Ion Battery: A New Strategy for a Nonmetallic Ion Energy Storage System. Angewandte Chemie - International Edition, 2022, 61, .	13.8	20
31	Ag-functionalized exfoliated V2O5 nanosheets: a flexible and binder-free cathode for lithium-ion batteries. Journal of Materials Science, 2019, 54, 12713-12722.	3.7	19
32	A synergetic promotion of sodium-ion storage in titania nanosheets by superlattice assembly with reduced graphene oxide and Fe-doping strategy. Chemical Engineering Journal, 2021, 407, 127198.	12.7	19
33	Cationic Hexagonal Boron Nitride, Graphene, and MoS₂ Nanosheets Heteroassembled with Their Anionic Counterparts for Photocatalysis and Sodium-Ion Battery Applications. ACS Applied Nano Materials, 2020, 3, 5327-5334.	5.0	16
34	Low-coordination water Prussian white as cathode for high-performance potassium-ion batteries. Chinese Chemical Letters, 2021, 32, 2433-2437.	9.0	14
35	Novel High-Performance and Low-Cost Electrochromic Prussian White Film. ACS Applied Materials & Interfaces, 2022, 14, 8157-8162.	8.0	14
36	Threeâ€Layer Structured SnO₂@C@TiO₂ Hollow Spheres for Highâ€Performance Sodium Storage. Energy and Environmental Materials, 2021, 4, 428-433.	12.8	12

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37	Polymer â€œTapeâ€â€Assisted Ballâ€Milling Method Fabrication Fewâ€Atomicâ€Layered Bismuth for Improving K⁺/Na⁺ Storage. Energy and Environmental Materials, 2021, 4, 421-427.	12.8	11
38	Low-cost carbon materials as anode for high-performance potassium-ion batteries. Materials Letters, 2020, 262, 127147.	2.6	10
39	Organic Ammonium Ion Battery: A New Strategy for a Nonmetallic Ion Energy Storage System. Angewandte Chemie, 2022, 134, .	2.0	9
40	A Three-Dimensional Surface Layer and a Composite Aphroid Layer Constructed by a Facile Rolling Method for High-Performance Li Metal Anodes. ACS Applied Energy Materials, 2021, 4, 8108-8116.	5.1	8
41	Low-cost lignite-derived hard carbon for high-performance sodium-ion storage. Journal of Materials Science, 2020, 55, 5994-6004.	3.7	7
42	Preferential Extraction of Lithium from Spent Cathodes and the Regeneration of Layered Oxides for Li/Na-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 24255-24264.	8.0	7
43	Anode Materials: Hard Carbon Microspheres: Potassiumâ€Ion Anode Versus Sodiumâ€Ion Anode (Adv.) Tj ETQq1 1 0.784314 rgBT /Ov	19.5	5
44	Sodium-Ion Batteries: Superior Electrochemical Performance and Storage Mechanism of Na3V2(PO4)3Cathode for Room-Temperature Sodium-Ion Batteries (Adv. Energy Mater. 2/2013). Advanced Energy Materials, 2013, 3, 138-138.	19.5	4
45	Threeâ€Dimensional Hierarchical Framework Loaded with Lithiophilic Nanorod Arrays for Highâ€Performance Lithiumâ€Metal Anodes. ChemElectroChem, 2020, 7, 4201-4207.	3.4	3
46	The electrochemical property and crystal structure of Li1+xNi0.45Co0.1Mn0.45O2 (0.05â‰xâ‰0.4) cathode materials under 4.6V cut-off. Journal of Alloys and Compounds, 2020, 831, 154489.	5.5	3
47	Battery Technology: New Paradigms on the Nature of Solid Electrolyte Interphase Formation and Capacity Fading of Hard Carbon Anodes in Naâ€Ion Batteries (Adv. Mater. Interfaces 19/2016). Advanced Materials Interfaces, 2016, 3, .	3.7	0
48	Innentitelbild: Hydroniumâ€Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode (Angew. Chem. 11/2017). Angewandte Chemie, 2017, 129, 2852-2852.	2.0	0