

# Zelang Jian

## List of Publications by Citations

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44  
papers

6,359  
citations

27  
h-index

51  
g-index

51  
ext. papers

7,319  
ext. citations

12.1  
avg, IF

6.31  
L-index

#	Paper	IF	Citations
44	Carbon Electrodes for K-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11566-9	16.4	1190
43	Superior Electrochemical Performance and Storage Mechanism of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathode for Room-Temperature Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 156-160	21.8	691
42	Hard Carbon Microspheres: Potassium-Ion Anode Versus Sodium-Ion Anode. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501874	21.8	612
41	Potassium Secondary Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4404-4419	9.5	590
40	Hard/Soft Composite Carbon as a Long-Cycling and High-Rate Anode for Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700324	15.6	361
39	Burning lithium in CS <sub>2</sub> for high-performing compact Li <sub>2</sub> S/graphene nanocapsules for Li-ion batteries. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	271
38	NASICON-Structured Materials for Energy Storage. <i>Advanced Materials</i> , <b>2017</b> , 29, 1601925	24	264
37	Atomic Structure and Kinetics of NASICON Na <sub>x</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 4265-4272	15.6	245
36	Mechanism of Na-Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602894	21.8	240
35	Low-surface-area hard carbon anode for na-ion batteries via graphene oxide as a dehydration agent. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 2626-31	9.5	188
34	Polynanocrystalline Graphite: A New Carbon Anode with Superior Cycling Performance for K-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4343-4351	9.5	168
33	Electrochemically Expandable Soft Carbon as Anodes for Na-Ion Batteries. <i>ACS Central Science</i> , <b>2015</b> , 1, 516-22	16.8	167
32	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by PO <sub>x</sub> Doping. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 395-401	20.1	136
31	Insights on the Mechanism of Na-Ion Storage in Soft Carbon Anode. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 2314-2320	9.6	133
30	Hard carbon anodes of sodium-ion batteries: undervalued rate capability. <i>Chemical Communications</i> , <b>2017</b> , 53, 2610-2613	5.8	126
29	A new low-voltage plateau of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as an anode for Na-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 6381-3	5.8	108
28	Hydronium-Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 2909-2913	16.4	105

27	A Hydrocarbon Cathode for Dual-Ion Batteries. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 719-723	20.1	104
26	Defective Hard Carbon Anode for Na-Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4536-4542	9.6	103
25	A High-Power Symmetric Na-Ion Pseudocapacitor. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5778-5785	15.6	94
24	Li <sub>3</sub> VO <sub>4</sub> anchored graphene nanosheets for long-life and high-rate lithium-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 229-31	5.8	91
23	High Energy Density Aqueous Electrochemical Capacitors with a KI-KOH Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 19978-85	9.5	61
22	CoreShell-Structured CNT@RuO <sub>2</sub> Composite as a High-Performance Cathode Catalyst for Rechargeable LiO <sub>2</sub> Batteries. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 452-456	3.6	49
21	New Paradigms on the Nature of Solid Electrolyte Interphase Formation and Capacity Fading of Hard Carbon Anodes in Na-Ion Batteries. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1600449	4.6	48
20	Hydronium-Ion Batteries with Perylenetetra-carboxylic Dianhydride Crystals as an Electrode. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2955-2959	3.6	44
19	The low-temperature (400 °C) coating of few-layer graphene on porous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> via C <sub>28</sub> H <sub>16</sub> Br <sub>2</sub> pyrolysis for lithium-ion batteries. <i>RSC Advances</i> , <b>2012</b> , 2, 1751	3.7	39
18	N-Doped carbon coated bismuth nanorods with a hollow structure as an anode for superior-performance potassium-ion batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 4309-4313	7.7	28
17	Hierarchical Copper Sulfide Porous Nanocages for Rechargeable Multivalent-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 10471-10478	9.5	25
16	The Quest for Stable Potassium-Ion Battery Chemistry. <i>Advanced Materials</i> , <b>2021</b> , e2106876	24	10
15	Low-cost carbon materials as anode for high-performance potassium-ion batteries. <i>Materials Letters</i> , <b>2020</b> , 262, 127147	3.3	8
14	Cationic Hexagonal Boron Nitride, Graphene, and MoS <sub>2</sub> Nanosheets Heteroassembled with Their Anionic Counterparts for Photocatalysis and Sodium-Ion Battery Applications. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 5327-5334	5.6	7
13	Ag-functionalized exfoliated V <sub>2</sub> O <sub>5</sub> nanosheets: a flexible and binder-free cathode for lithium-ion batteries. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 12713-12722	4.3	7
12	Three-Layer Structured SnO <sub>2</sub> @C@TiO <sub>2</sub> Hollow Spheres for High-Performance Sodium Storage. <i>Energy and Environmental Materials</i> , <b>2021</b> , 4, 428-433	13	6
11	A synergetic promotion of sodium-ion storage in titania nanosheets by superlattice assembly with reduced graphene oxide and Fe-doping strategy. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127198	14.7	6
10	Boosting the Electrochemical Performance of LiNiCoMnO by Rough Coating with the Superionic Conductor LiLaZrO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54916-54923	9.5	5

9	Anode Materials: Hard Carbon Microspheres: Potassium-Ion Anode Versus Sodium-Ion Anode (Adv. Energy Mater. 3/2016). <i>Advanced Energy Materials</i> , <b>2016</b> , 6,	21.8	5
8	Low-coordination water Prussian white as cathode for high-performance potassium-ion batteries. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 2433-2437	8.1	5
7	Sodium-Ion Batteries: Superior Electrochemical Performance and Storage Mechanism of Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Cathode for Room-Temperature Sodium-Ion Batteries (Adv. Energy Mater. 2/2013). <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 138-138	21.8	3
6	Polymer Template-Assisted Ball-Milling Method Fabrication Few-Atomic-Layered Bismuth for Improving K <sup>+</sup> /Na <sup>+</sup> Storage. <i>Energy and Environmental Materials</i> , <b>2021</b> , 4, 421-427	13	3
5	A Three-Dimensional Surface Layer and a Composite Aphroid Layer Constructed by a Facile Rolling Method for High-Performance Li Metal Anodes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8108-8116	6.1	3
4	Low-cost lignite-derived hard carbon for high-performance sodium-ion storage. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 5994-6004	4.3	2
3	The electrochemical property and crystal structure of Li <sub>1+x</sub> Ni <sub>0.45</sub> Co <sub>0.1</sub> Mn <sub>0.45</sub> O <sub>2</sub> (0.05 ≤ x ≤ 0.4) cathode materials under 4.6V cut-off. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 831, 154489	5.7	2
2	Three-Dimensional Hierarchical Framework Loaded with Lithiophilic Nanorod Arrays for High-Performance Lithium-Metal Anodes. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4201-4207	4.3	2
1	Innentitelbild: Hydronium-Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode (Angew. Chem. 11/2017). <i>Angewandte Chemie</i> , <b>2017</b> , 129, 2852-2852	3.6	