Zelang Jian

List of Publications by Year in Descending Order

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	Boosting the Electrochemical Performance of LiNiCoMnO by Rough Coating with the Superionic Conductor LiLaZrO. *ACS Applied Materials & Interfaces*, **2021**, 13, 54916-54923	9.5	5
43	The Quest for Stable Potassium-Ion Battery Chemistry. *Advanced Materials*, **2021**, e2106876	24	10
42	Three-Layer Structured SnO2@C@TiO2 Hollow Spheres for High-Performance Sodium Storage. *Energy and Environmental Materials*, **2021**, 4, 428-433	13	6
41	Polymer □ape□Assisted Ball-Milling Method Fabrication Few-Atomic-Layered Bismuth for Improving K+/Na+ Storage. *Energy and Environmental Materials*, **2021**, 4, 421-427	13	3
40	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	14.7	6
39	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	6.1	3
38	Low-coordination water Prussian white as cathode for high-performance potassium-ion batteries. *Chinese Chemical Letters*, **2021**, 32, 2433-2437	8.1	5
37	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	5.6	7
36	Hierarchical Copper Sulfide Porous Nanocages for Rechargeable Multivalent-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 10471-10478	9.5	25
35	Low-cost lignite-derived hard carbon for high-performance sodium-ion storage. *Journal of Materials Science*, **2020**, 55, 5994-6004	4.3	2
34	N-Doped carbon coated bismuth nanorods with a hollow structure as an anode for superior-performance potassium-ion batteries. *Nanoscale*, **2020**, 12, 4309-4313	7.7	28
33	The electrochemical property and crystal structure of Li1+xNi0.45Co0.1Mn0.45O2 (0.05⊠0.4) cathode materials under 4.6V cut-off. *Journal of Alloys and Compounds*, **2020**, 831, 154489	5.7	2
32	Low-cost carbon materials as anode for high-performance potassium-ion batteries. *Materials Letters*, **2020**, 262, 127147	3.3	8
31	Three-Dimensional Hierarchical Framework Loaded with Lithiophilic Nanorod Arrays for High-Performance Lithium-Metal Anodes. *ChemElectroChem*, **2020**, 7, 4201-4207	4.3	2
30	Ag-functionalized exfoliated V2O5 nanosheets: a flexible and binder-free cathode for lithium-ion batteries. *Journal of Materials Science*, **2019**, 54, 12713-12722	4.3	7
29	Defective Hard Carbon Anode for Na-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 4536-4542	9.6	103
28	NASICON-Structured Materials for Energy Storage. *Advanced Materials*, **2017**, 29, 1601925	24	264

27	Hard carbon anodes of sodium-ion batteries: undervalued rate capability. *Chemical Communications*, **2017**, 53, 2610-2613	5.8	126
26	Hydronium-Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode. *Angewandte Chemie - International Edition*, **2017**, 56, 2909-2913	16.4	105
25	Insights on the Mechanism of Na-Ion Storage in Soft Carbon Anode. *Chemistry of Materials*, **2017**, 29, 2314-2320	9.6	133
24	Hydronium-Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode. *Angewandte Chemie*, **2017**, 129, 2955-2959	3.6	44
23	Hard–Soft Composite Carbon as a Long-Cycling and High-Rate Anode for Potassium-Ion Batteries. *Advanced Functional Materials*, **2017**, 27, 1700324	15.6	361
22	Mechanism of Na-Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. *Advanced Energy Materials*, **2017**, 7, 1602894	21.8	240
21	Burning lithium in CS2 for high-performing compact Li2S–graphene nanocapsules for Li–S batteries. *Nature Energy*, **2017**, 2,	62.3	271
20	Innentitelbild: Hydronium-Ion Batteries with Perylenetetracarboxylic Dianhydride Crystals as an Electrode (Angew. Chem. 11/2017). *Angewandte Chemie*, **2017**, 129, 2852-2852	3.6	
19	Polynanocrystalline Graphite: A New Carbon Anode with Superior Cycling Performance for K-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 4343-4351	9.5	168
18	Potassium Secondary Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 4404-4419	9.5	590
17	New Paradigms on the Nature of Solid Electrolyte Interphase Formation and Capacity Fading of Hard Carbon Anodes in Na-Ion Batteries. *Advanced Materials Interfaces*, **2016**, 3, 1600449	4.6	48
16	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by POx Doping. *ACS Energy Letters*, **2016**, 1, 395-401	20.1	136
15	Hard Carbon Microspheres: Potassium-Ion Anode Versus Sodium-Ion Anode. *Advanced Energy Materials*, **2016**, 6, 1501874	21.8	612
14	Anode Materials: Hard Carbon Microspheres: Potassium-Ion Anode Versus Sodium-Ion Anode (Adv. Energy Mater. 3/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	5
13	A Hydrocarbon Cathode for Dual-Ion Batteries. *ACS Energy Letters*, **2016**, 1, 719-723	20.1	104
12	Low-surface-area hard carbon anode for na-ion batteries via graphene oxide as a dehydration agent. *ACS Applied Materials & Interfaces*, **2015**, 7, 2626-31	9.5	188
11	A new low-voltage plateau of Na3V2(PO4)3 as an anode for Na-ion batteries. *Chemical Communications*, **2015**, 51, 6381-3	5.8	108
10	Carbon Electrodes for K-Ion Batteries. *Journal of the American Chemical Society*, **2015**, 137, 11566-9	16.4	1190

9	High Energy Density Aqueous Electrochemical Capacitors with a KI-KOH Electrolyte. *ACS Applied Materials & Interfaces*, **2015**, 7, 19978-85	9.5	61
8	Li3VO4 anchored graphene nanosheets for long-life and high-rate lithium-ion batteries. *Chemical Communications*, **2015**, 51, 229-31	5.8	91
7	A High-Power Symmetric Na-Ion Pseudocapacitor. *Advanced Functional Materials*, **2015**, 25, 5778-5785	15.6	94
6	Electrochemically Expandable Soft Carbon as Anodes for Na-Ion Batteries. *ACS Central Science*, **2015**, 1, 516-22	16.8	167
5	Core□Shell-Structured CNT@RuO2 Composite as a High-Performance Cathode Catalyst for Rechargeable Li□O2 Batteries. *Angewandte Chemie*, **2014**, 126, 452-456	3.6	49
4	Atomic Structure and Kinetics of NASICON NaxV2(PO4)3 Cathode for Sodium-Ion Batteries. *Advanced Functional Materials*, **2014**, 24, 4265-4272	15.6	245
3	Superior Electrochemical Performance and Storage Mechanism of Na3V2(PO4)3 Cathode for Room-Temperature Sodium-Ion Batteries. *Advanced Energy Materials*, **2013**, 3, 156-160	21.8	691
2	Sodium-Ion Batteries: Superior Electrochemical Performance and Storage Mechanism of Na3V2(PO4)3 Cathode for Room-Temperature Sodium-Ion Batteries (Adv. Energy Mater. 2/2013). *Advanced Energy Materials*, **2013**, 3, 138-138	21.8	3
1	The low-temperature (400 □C) coating of few-layer graphene on porous Li4Ti5O12viaC28H16Br2 pyrolysis for lithium-ion batteries. *RSC Advances*, **2012**, 2, 1751	3.7	39