Zhen Li

List of Publications by Year in Descending Order

92 papers	8,864 citations	41 h-index	94 g-index
101 ext. papers	10,237 ext. citations	13.2 avg, IF	6.75 L-index

#	Paper	IF	Citations
92	All-solid-state batteries **2022**, 343-361		
91	Stable Room-Temperature Sodium-Sulfur Batteries in Ether-Based Electrolytes Enabled by the Fluoroethylene Carbonate Additive.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	2
90	Highly Reversible and Anticorrosive Zn Anode Enabled by a Ag Nanowires Layer.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	3
89	Enabling Selenium-Rich SexSy Cathodes to Work in Carbonate-Based Electrolytes. *Advanced Energy Materials*, **2022**, 12, 2102832	21.8	1
88	Solid/Quasi-Solid Phase Conversion of Sulfur in Lithium-Sulfur Battery.. *Small*, **2022**, e2106970	11	2
87	In Situ Constructing Coordination Compounds Interphase to Stabilize Zn Metal Anode for High-Performance Aqueous Zn-SeS Batteries.. *Small*, **2022**, e2200567	11	2
86	Low-cost fumed silicon dioxide uniform Li+ flux for lean-electrolyte and anode-free Li/S battery. *Energy Storage Materials*, **2022**, 48, 366-374	19.4	2
85	Porous carbon–sulfur composite cathodes **2022**, 207-224		
84	An oxygen vacancy-rich ZnO layer on garnet electrolyte enables dendrite-free solid state lithium metal batteries. *Chemical Engineering Journal*, **2021**, 433, 133665	14.7	1
83	Lithium-Metal Batteries: Polycationic Polymer Layer for Air-Stable and Dendrite-Free Li Metal Anodes in Carbonate Electrolytes (Adv. Mater. 12/2021). *Advanced Materials*, **2021**, 33, 2170087	24	2
82	In situ protection of a sulfur cathode and a lithium anode via adopting a fluorinated electrolyte for stable lithium-sulfur batteries. *Science China Materials*, **2021**, 64, 2127-2138	7.1	5
81	Sowing Silver Seeds within Patterned Ditches for Dendrite-Free Lithium Metal Batteries. *Advanced Science*, **2021**, 8, e2100684	13.6	21
80	Ultrathin Conductive Interlayer with High-Density Antisite Defects for Advanced Lithium–Sulfur Batteries. *Advanced Functional Materials*, **2021**, 31, 2001201	15.6	19
79	Reducing the thickness of solid-state electrolyte membranes for high-energy lithium batteries. *Energy and Environmental Science*, **2021**, 14, 12-36	35.4	78
78	Composite Lithium Metal Anodes with Lithiophilic and Low-Tortuosity Scaffold Enabling Ultrahigh Currents and Capacities in Carbonate Electrolytes. *Advanced Functional Materials*, **2021**, 31, 2009961	15.6	15
77	Methods and Cost Estimation for the Synthesis of Nanosized Lithium Sulfide. *Small Structures*, **2021**, 2, 2000059	8.7	11
76	A flame-retardant polymer electrolyte for high performance lithium metal batteries with an expanded operation temperature. *Energy and Environmental Science*, **2021**, 14, 3510-3521	35.4	49

75	Ultrathin Conductive Interlayers: Ultrathin Conductive Interlayer with High-Density Antisite Defects for Advanced Lithium–Sulfur Batteries (Adv. Funct. Mater. 2/2021). *Advanced Functional Materials*, **2021**, 31, 2170012	15.6	
74	Rationally Design a Sulfur Cathode with Solid-Phase Conversion Mechanism for High Cycle-Stable Li–S Batteries. *Advanced Energy Materials*, **2021**, 11, 2003690	21.8	24
73	Elevated Lithium Ion Regulation by a "Natural Silk" Modified Separator for High-Performance Lithium Metal Anode. *Advanced Functional Materials*, **2021**, 31, 2100537	15.6	29
72	Polycationic Polymer Layer for Air-Stable and Dendrite-Free Li Metal Anodes in Carbonate Electrolytes. *Advanced Materials*, **2021**, 33, e2007428	24	32
71	Improving Na/Na Zr Si PO Interface via SnO /Sn Film for High-Performance Solid-State Sodium Metal Batteries.. *Small Methods*, **2021**, 5, e2100339	12.8	4
70	Recent progress of asymmetric solid-state electrolytes for lithium/sodium-metal batteries. *EnergyChem*, **2021**, 3, 100058	36.9	10
69	Reactivating Dead Li by Shuttle Effect for High-Performance Anode-Free Li Metal Batteries. *Journal of the Electrochemical Society*, **2021**, 168, 120535	3.9	3
68	Facile one-step vulcanization of copper foil towards stable Li metal anode. *Science China Materials*, **2020**, 63, 1663-1671	7.1	11
67	Stable Lithium Metal Anode Enabled by 3D Soft Host. *ACS Applied Materials & Interfaces*, **2020**, 12, 28337-28344	9.5	20
66	Electrolyte with boron nitride nanosheets as leveling agent towards dendrite-free lithium metal anodes. *Nano Energy*, **2020**, 72, 104725	17.1	42
65	Advanced Characterization Techniques for Interface in All-Solid-State Batteries. *Small Methods*, **2020**, 4, 2000111	12.8	22
64	Construct an Ultrathin Bismuth Buffer for Stable Solid-State Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 12793-12800	9.5	14
63	Li2S-based anode-free full batteries with modified Cu current collector. *Energy Storage Materials*, **2020**, 30, 179-186	19.4	30
62	High sulfur-containing organosulfur polymer composite cathode embedded by monoclinic S for lithium sulfur batteries. *Energy Storage Materials*, **2020**, 26, 570-576	19.4	30
61	Air-stable means more: designing air-defendable lithium metals for safe and stable batteries. *Materials Horizons*, **2020**, 7, 2619-2634	14.4	13
60	Constructing Stable Anodic Interphase for Quasi-Solid-State Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 39335-39341	9.5	6
59	Green and scalable synthesis of porous carbon nanosheet-assembled hierarchical architectures for robust capacitive energy harvesting. *Carbon*, **2019**, 152, 537-544	10.4	26
58	Porous ZnO/CoO/N-doped carbon nanocages synthesized via pyrolysis of complex metal-organic framework (MOF) hybrids as an advanced lithium-ion battery anode. *Acta Crystallographica Section C, Structural Chemistry*, **2019**, 75, 969-978	0.8	6

57	Engineering stable electrode-separator interfaces with ultrathin conductive polymer layer for high-energy-density Li-S batteries. *Energy Storage Materials*, **2019**, 23, 261-268	19.4	99
56	Realizing an Applicable "Solid -Solid" Cathode Process via a Transplantable Solid Electrolyte Interface for Lithium-Sulfur Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 29830-29837	9.5	14
55	Ultrathin, Flexible Polymer Electrolyte for Cost-Effective Fabrication of All-Solid-State Lithium Metal Batteries. *Advanced Energy Materials*, **2019**, 9, 1902767	21.8	122
54	Advanced Li S/Si Full Battery Enabled by TiN Polysulfide Immobilizer. *Small*, **2019**, 15, e1902377	11	21
53	Recent Advances in Cathode Materials for Room-Temperature Sodium-Sulfur Batteries. *ChemPhysChem*, **2019**, 20, 3164-3176	3.2	17
52	Molecular Characterization of Two Mitogen-Activated Protein Kinases: p38 MAP Kinase and Ribosomal S6 Kinase From Bombyx mori (Lepidoptera: Bombycidae), and Insight Into Their Roles in Response to BmNPV Infection. *Journal of Insect Science*, **2019**, 19,	2	6
51	A modular strategy for decorating isolated cobalt atoms into multichannel carbon matrix for electrocatalytic oxygen reduction. *Energy and Environmental Science*, **2018**, 11, 1980-1984	35.4	173
50	Comparative transcriptome analysis reveals significant metabolic alterations in eri-silkworm (Samia cynthia ricini) haemolymph in response to 1-deoxynojirimycin. *PLoS ONE*, **2018**, 13, e0191080	3.7	9
49	A pyrolyzed polyacrylonitrile/selenium disulfide composite cathode with remarkable lithium and sodium storage performances. *Science Advances*, **2018**, 4, eaat1687	14.3	172
48	Necklace-Like Structures Composed of Fe N@C Yolk-Shell Particles as an Advanced Anode for Sodium-Ion Batteries. *Advanced Materials*, **2018**, 30, e1800525	24	119
47	Molecular characterisation of Apolipophorin-III gene in Samia cynthia ricini and its roles in response to bacterial infection. *Journal of Invertebrate Pathology*, **2018**, 159, 61-70	2.6	8
46	Nickel-Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 10944-10948	16.4	205
45	Nickel Iron Layered Double Hydroxide Hollow Polyhedrons as a Superior Sulfur Host for Lithium Sulfur Batteries. *Angewandte Chemie*, **2018**, 130, 11110-11114	3.6	23
44	Ultrafine nano-sulfur particles anchored on in situ exfoliated graphene for lithium sulfur batteries. *Journal of Materials Chemistry A*, **2017**, 5, 9412-9417	13	68
43	An Improved Li SeS2 Battery with High Energy Density and Long Cycle Life. *Advanced Energy Materials*, **2017**, 7, 1700281	21.8	91
42	Mesoporous Carbon@Titanium Nitride Hollow Spheres as an Efficient SeS Host for Advanced Li-SeS Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 16003-16007	16.4	88
41	Mesoporous Carbon@Titanium Nitride Hollow Spheres as an Efficient SeS2 Host for Advanced Li SeS2 Batteries. *Angewandte Chemie*, **2017**, 129, 16219-16223	3.6	18
40	A Compact Nanoconfined Sulfur Cathode for High-Performance Lithium-Sulfur Batteries. *Joule*, **2017**, 1, 576-587	27.8	194

39	A Freestanding Selenium Disulfide Cathode Based on Cobalt Disulfide-Decorated Multichannel Carbon Fibers with Enhanced Lithium Storage Performance. *Angewandte Chemie*, **2017**, 129, 14295-14300	3.6	21
38	A Freestanding Selenium Disulfide Cathode Based on Cobalt Disulfide-Decorated Multichannel Carbon Fibers with Enhanced Lithium Storage Performance. *Angewandte Chemie - International Edition*, **2017**, 56, 14107-14112	16.4	91
37	Molecular Characterization and Functional Analysis of a Ferritin Heavy Chain Subunit from the Eri-Silkworm, Samia cynthia ricini. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	9
36	Metallic 1T MoS2 nanosheet arrays vertically grown on activated carbon fiber cloth for enhanced Li-ion storage performance. *Journal of Materials Chemistry A*, **2017**, 5, 14061-14069	13	161
35	A sulfur host based on titanium monoxide@carbon hollow spheres for advanced lithium-sulfur batteries. *Nature Communications*, **2016**, 7, 13065	17.4	511
34	Hierarchical MoS2 tubular structures internally wired by carbon nanotubes as a highly stable anode material for lithium-ion batteries. *Science Advances*, **2016**, 2, e1600021	14.3	327
33	Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium–Sulfur Batteries. *Angewandte Chemie*, **2016**, 128, 4050-4054	3.6	51
32	SnO2 as a high-efficiency polysulfide trap in lithium-sulfur batteries. *Nanoscale*, **2016**, 8, 13638-45	7.7	115
31	Double-Shelled Nanocages with Cobalt Hydroxide Inner Shell and Layered Double Hydroxides Outer Shell as High-Efficiency Polysulfide Mediator for Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2016**, 55, 3982-6	16.4	447
30	High performance lithium-sulfur batteries with a facile and effective dual functional separator. *Electrochimica Acta*, **2016**, 200, 197-203	6.7	63
29	Nonporous MOF-derived dopant-free mesoporous carbon as an efficient metal-free electrocatalyst for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2016**, 4, 9370-9374	13	68
28	Rational designs and engineering of hollow micro-/nanostructures as sulfur hosts for advanced lithium–sulfur batteries. *Energy and Environmental Science*, **2016**, 9, 3061-3070	35.4	502
27	Nanostructured alkali cation incorporated δ-MnO2 cathode materials for aqueous sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 7780-7785	13	56
26	High-performance lithium-selenium battery with Se/microporous carbon composite cathode and carbonate-based electrolyte. *Science China Materials*, **2015**, 58, 91-97	7.1	27
25	Improving the electrochemical performance of a lithium–sulfur battery with a conductive polymer-coated sulfur cathode. *RSC Advances*, **2015**, 5, 44160-44164	3.7	40
24	Status and prospects in sulfur–carbon composites as cathode materials for rechargeable lithium–sulfur batteries. *Carbon*, **2015**, 92, 41-63	10.4	328
23	Oxygen plasma modified separator for lithium sulfur battery. *RSC Advances*, **2015**, 5, 79473-79478	3.7	33
22	Pie-like electrode design for high-energy density lithium-sulfur batteries. *Nature Communications*, **2015**, 6, 8850	17.4	391

21	General Formation of M(x)Co(3-x)S4 (M=Ni, Mn, Zn) Hollow Tubular Structures for Hybrid Supercapacitors. *Angewandte Chemie - International Edition*, **2015**, 54, 10521-4	16.4	220
20	Hollow Carbon Nanofibers Filled with MnO2 Nanosheets as Efficient Sulfur Hosts for Lithium-Sulfur Batteries. *Angewandte Chemie - International Edition*, **2015**, 54, 12886-90	16.4	691
19	Hollow Carbon Nanofibers Filled with MnO2 Nanosheets as Efficient Sulfur Hosts for Lithium□Sulfur Batteries. *Angewandte Chemie*, **2015**, 127, 13078-13082	3.6	93
18	General Formation of MxCo3□S4 (M=Ni, Mn, Zn) Hollow Tubular Structures for Hybrid Supercapacitors. *Angewandte Chemie*, **2015**, 127, 10667-10670	3.6	99
17	Flexible and Binder-Free Electrodes of Sb/rGO and Na3V2(PO4)3/rGO Nanocomposites for Sodium-Ion Batteries. *Small*, **2015**, 11, 3822-9	11	164
16	High-performance lithium□selenium batteries promoted by heteroatom-doped microporous carbon. *Journal of Materials Chemistry A*, **2015**, 3, 3059-3065	13	80
15	A separator modified by high efficiency oxygen plasma for lithium ion batteries with superior performance. *RSC Advances*, **2015**, 5, 92995-93001	3.7	12
14	Sodium storage in Na-rich Na x FeFe(CN) 6 nanocubes. *Nano Energy*, **2015**, 12, 386-393	17.1	183
13	Novel double-cathode configuration to improve the cycling stability of lithium□sulfur battery. *RSC Advances*, **2015**, 5, 14196-14201	3.7	9
12	High-performance aqueous sodium-ion batteries with K0.27MnO2 cathode and their sodium storage mechanism. *Nano Energy*, **2014**, 5, 97-104	17.1	115
11	A dual coaxial nanocable sulfur composite for high-rate lithium-sulfur batteries. *Nanoscale*, **2014**, 6, 1653-60	7.7	79
10	Insight into the Electrode Mechanism in Lithium-Sulfur Batteries with Ordered Microporous Carbon Confined Sulfur as the Cathode. *Advanced Energy Materials*, **2014**, 4, 1301473	21.8	350
9	MOF-derived porous ZnO/ZnFe□O□/C octahedra with hollow interiors for high-rate lithium-ion batteries. *Advanced Materials*, **2014**, 26, 6622-8	24	596
8	Confined selenium within porous carbon nanospheres as cathode for advanced Li□Se batteries. *Nano Energy*, **2014**, 9, 229-236	17.1	183
7	A highly ordered meso@microporous carbon-supported sulfur@smaller sulfur core-shell structured cathode for Li-S batteries. *ACS Nano*, **2014**, 8, 9295-303	16.7	497
6	Molecular evolution of the HD-ZIP I gene family in legume genomes. *Gene*, **2014**, 533, 218-28	3.8	28
5	Facile fabrication of CuO nanosheets on Cu substrate as anode materials for electrochemical energy storage. *Journal of Alloys and Compounds*, **2014**, 586, 208-215	5.7	72
4	A label free exonuclease III-aided fluorescence assay for adenosine triphosphate based on graphene oxide and ligation reaction. *New Journal of Chemistry*, **2013**, 37, 927	3.6	20

3	A label-free amplified fluorescence DNA detection based on isothermal circular strand-displacement polymerization reaction and graphene oxide. *Analyst, The*, **2013**, 138, 3616-20	5	24
2	Coral-like β-MnS composites with N-doped carbon as anode materials for high-performance lithium-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 24026		115
1	Insight into the Fading Mechanism of the Solid-Conversion Sulfur Cathodes and Designing Long Cycle Lithium–Sulfur Batteries. *Advanced Energy Materials*,2102774	21.8	2