

Dong Zhou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

5,194
citations

42
h-index

71
g-index

86
ext. papers

6,811
ext. citations

13.4
avg, IF

6.11
L-index

#	Paper	IF	Citations
80	Polymer Electrolytes for Lithium-Based Batteries: Advances and Prospects. <i>CheM</i> , 2019 , 5, 2326-2352	16.2	354
79	Novel gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2016 , 22, 278-289	17.1	289
78	SiO ₂ Hollow Nanosphere-Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. <i>Advanced Energy Materials</i> , 2016 , 6, 1502214	21.8	271
77	A room-temperature sodium-sulfur battery with high capacity and stable cycling performance. <i>Nature Communications</i> , 2018 , 9, 3870	17.4	247
76	In Situ Synthesis of a Hierarchical All-Solid-State Electrolyte Based on Nitrile Materials for High-Performance Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500353	21.8	215
75	Boosting the Electrocatalytic Activity of Co ₃ O ₄ Nanosheets for a Li-O ₂ Battery through Modulating Inner Oxygen Vacancy and Exterior Co ³⁺ /Co ²⁺ Ratio. <i>ACS Catalysis</i> , 2017 , 7, 6533-6541	13.1	175
74	Suppressing Self-Discharge and Shuttle Effect of Lithium-Sulfur Batteries with V O ₂ -Decorated Carbon Nanofiber Interlayer. <i>Small</i> , 2017 , 13, 1602539	11	165
73	In situ synthesis of hierarchical poly(ionic liquid)-based solid electrolytes for high-safety lithium-ion and sodium-ion batteries. <i>Nano Energy</i> , 2017 , 33, 45-54	17.1	154
72	Co-Fe Mixed Metal Phosphide Nanocubes with Highly Interconnected-Pore Architecture as an Efficient Polysulfide Mediator for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 4731-4741	16.7	154
71	Morphological Evolution of High-Voltage Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials for Lithium-Ion Batteries: The Critical Effects of Surface Orientations and Particle Size. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4661-75	9.5	152
70	MXene-Based Dendrite-Free Potassium Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e1906739	24	130
69	A Stable Quasi-Solid-State Sodium-Sulfur Battery. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10168-10172	16.4	128
68	Deep-Eutectic-Solvent-Based Self-Healing Polymer Electrolyte for Safe and Long-Life Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9134-9142	16.4	122
67	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. <i>Nano Letters</i> , 2019 , 19, 4518-4526	11.5	121
66	Stable Conversion Chemistry-Based Lithium Metal Batteries Enabled by Hierarchical Multifunctional Polymer Electrolytes with Near-Single Ion Conduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6001-6006	16.4	116
65	Temperature-Dependent Nucleation and Growth of Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11364-11368	16.4	111
64	A honeycomb-cobweb inspired hierarchical core-shell structure design for electrospun silicon/carbon fibers as lithium-ion battery anodes. <i>Carbon</i> , 2016 , 98, 582-591	10.4	104

63	A high-capacity P2 Na ₂ /3Ni ₁ /3Mn ₂ /3O ₂ cathode material for sodium ion batteries with oxygen activity. <i>Journal of Power Sources</i> , 2018 , 395, 16-24	8.9	94
62	Redox-Active Organic Sodium Anthraquinone-2-Sulfonate (AQS) Anchored on Reduced Graphene Oxide for High-Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1802088	21.8	91
61	Boosting Sodium Storage in Two-Dimensional Phosphorene/TiCT MXene Nanoarchitectures with Stable Fluorinated Interphase. <i>ACS Nano</i> , 2020 , 14, 3651-3659	16.7	90
60	Morphological Evolution of Electrochemically Plated/Stripped Lithium Microstructures Investigated by Synchrotron X-ray Phase Contrast Tomography. <i>ACS Nano</i> , 2016 , 10, 7990-7	16.7	83
59	Toward High Performance Lithium-Sulfur Batteries Based on Li ₂ S Cathodes and Beyond: Status, Challenges, and Perspectives. <i>Advanced Functional Materials</i> , 2018 , 28, 1800154	15.6	81
58	CoB Nanoflakes as Multifunctional Bridges in ZnCo ₂ O ₄ Micro-/Nanospheres for Superior Lithium Storage with Boosted Kinetics and Stability. <i>Advanced Energy Materials</i> , 2019 , 9, 1803612	21.8	78
57	Quasi-Solid-State Dual-Ion Sodium Metal Batteries for Low-Cost Energy Storage. <i>Chem</i> , 2020 , 6, 902-918	16.2	77
56	Study of the Mechanisms of Internal Short Circuit in a Li/Li Cell by Synchrotron X-ray Phase Contrast Tomography. <i>ACS Energy Letters</i> , 2017 , 2, 94-104	20.1	71
55	Revitalising sodium-sulfur batteries for non-high-temperature operation: a crucial review. <i>Energy and Environmental Science</i> , 2020 , 13, 3848-3879	35.4	70
54	Investigation of cyano resin-based gel polymer electrolyte: in situ gelation mechanism and electrode/electrolyte interfacial fabrication in lithium-ion battery. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20059-20066	13	65
53	Two Birds with One Stone: FeS@C Yolk-Shell Composite for High-Performance Sodium-Ion Energy Storage and Electromagnetic Wave Absorption. <i>Nano Letters</i> , 2020 , 20, 3769-3777	11.5	63
52	High-performance lithium-organic batteries by achieving 16 lithium storage in poly(imine-anthraquinone). <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2368-2375	13	62
51	In-situ Fabrication of a Freestanding Acrylate-based Hierarchical Electrolyte for Lithium-sulfur Batteries. <i>Electrochimica Acta</i> , 2016 , 213, 871-878	6.7	60
50	A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18888-18895	13	58
49	O ₃ -type Na[Fe ₁ /3Ni ₁ /3Ti ₁ /3]O ₂ cathode material for rechargeable sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3431-3437	13	57
48	Cyclized-polyacrylonitrile modified carbon nanofiber interlayers enabling strong trapping of polysulfides in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12973-12980	13	54
47	High-Performance Quasi-Solid-State MXene-Based Li-I Batteries. <i>ACS Central Science</i> , 2019 , 5, 365-373	16.8	53
46	Self-Healing Janus Interfaces for High-Performance LAGP-Based Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2020 , 5, 1456-1464	20.1	51

45	A highly-safe lithium-ion sulfur polymer battery with SnO ₂ anode and acrylate-based gel polymer electrolyte. <i>Nano Energy</i> , 2016 , 28, 97-105	17.1	51
44	Correlating Morphological Evolution of Li Electrodes with Degrading Electrochemical Performance of Li/LiCoO ₂ and Li/S Battery Systems: Investigated by Synchrotron X-ray Phase Contrast Tomography. <i>ACS Energy Letters</i> , 2018 , 3, 356-365	20.1	50
43	Polyolefin-Based Janus Separator for Rechargeable Sodium Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16725-16734	16.4	48
42	Temperature-Dependent Nucleation and Growth of Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2019 , 131, 11486-11490	3.6	44
41	Non-Flammable Liquid and Quasi-Solid Electrolytes toward Highly-Safe Alkali Metal-Based Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2008644	15.6	44
40	Revealing Hidden Facts of Li Anode in Cycled Lithium-Oxygen Batteries through X-ray and Neutron Tomography. <i>ACS Energy Letters</i> , 2019 , 4, 306-316	20.1	43
39	Safe LAGP-based all solid-state Li metal batteries with plastic super-conductive interlayer enabled by in-situ solidification. <i>Energy Storage Materials</i> , 2020 , 25, 613-620	19.4	43
38	Electrochemical performance of trimethylolpropane trimethylacrylate-based gel polymer electrolyte prepared by in situ thermal polymerization. <i>Electrochimica Acta</i> , 2013 , 89, 334-338	6.7	41
37	High-Energy and High-Power Nonaqueous Lithium-Ion Capacitors Based on Polypyrrole/Carbon Nanotube Composites as Pseudocapacitive Cathodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15646-15655	9.5	30
36	A universal strategy towards high-energy aqueous multivalent-ion batteries. <i>Nature Communications</i> , 2021 , 12, 2857	17.4	29
35	Truncated Octahedral High-Voltage Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathode Materials for Lithium Ion Batteries: Positive Influences of Ni/Mn Disorder and Oxygen Vacancies. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A1886-A1896	3.9	29
34	Boost Anion Storage Capacity Using Conductive Polymer as a Pseudocapacitive Cathode for High-Energy and Flexible Lithium Ion Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10479-10489	9.5	27
33	Achieving Low Overpotential Lithium-Oxygen Batteries by Exploiting a New Electrolyte Based on N,N'-Dimethylpropyleneurea. <i>ACS Energy Letters</i> , 2017 , 2, 313-318	20.1	25
32	Strong charge polarization effect enabled by surface oxidized titanium nitride for lithium-sulfur batteries. <i>Communications Chemistry</i> , 2019 , 2,	6.3	25
31	A Novel Lithiated Silicon-Sulfur Battery Exploiting an Optimized Solid-Like Electrolyte to Enhance Safety and Cycle Life. <i>Small</i> , 2017 , 13, 1602015	11	25
30	A Lithium/Polysulfide Battery with Dual-Working Mode Enabled by Liquid Fuel and Acrylate-Based Gel Polymer Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2526-2534	9.5	22
29	Investigation of electronic and local structural changes during lithium uptake and release of nano-crystalline NiFe ₂ O ₄ by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2017 , 342, 56-63	8.9	21
28	Liquid electrolyte immobilized in compact polymer matrix for stable sodium metal anodes. <i>Energy Storage Materials</i> , 2019 , 23, 610-616	19.4	21

27	Rechargeable anion-shuttle batteries for low-cost energy storage. <i>Chem</i> , 2021 , 7, 1993-2021	16.2	21
26	Stable Conversion Chemistry-Based Lithium Metal Batteries Enabled by Hierarchical Multifunctional Polymer Electrolytes with Near-Single Ion Conduction. <i>Angewandte Chemie</i> , 2019 , 131, 6062-6067	3.6	20
25	Deep-Eutectic-Solvent-Based Self-Healing Polymer Electrolyte for Safe and Long-Life Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 9219-9227	3.6	20
24	In Situ Radiographic Investigation of (De)Lithiation Mechanisms in a Tin-Electrode Lithium-Ion Battery. <i>ChemSusChem</i> , 2016 , 9, 946-50	8.3	19
23	A biscuit-like separator enabling high performance lithium batteries by continuous and protected releasing of NO ₃ ⁻ in carbonate electrolyte. <i>Energy Storage Materials</i> , 2020 , 24, 229-236	19.4	18
22	Performance and behavior of LLZO-based composite polymer electrolyte for lithium metal electrode with high capacity utilization. <i>Nano Energy</i> , 2020 , 77, 105196	17.1	18
21	In situ XAS study of CoB modified hematite photoanodes. <i>Dalton Transactions</i> , 2017 , 46, 15719-15726	4.3	17
20	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , 2021 , 12, 5746	17.4	17
19	TEMPO-Ionic Liquids as Redox Mediators and Solvents for LiO ₂ Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5087-5092	3.8	16
18	Local structural changes of nano-crystalline ZnFe ₂ O ₄ during lithiation and de-lithiation studied by X-ray absorption spectroscopy. <i>Electrochimica Acta</i> , 2017 , 246, 699-706	6.7	16
17	Investigation of a porous NiSi ₂ /Si composite anode material used for lithium-ion batteries by X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2016 , 324, 830-835	8.9	16
16	Localized Water-In-Salt Electrolyte for Aqueous Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19965-19973	16.4	16
15	Lithium-Sulfur Batteries: Toward High Performance Lithium-Sulfur Batteries Based on Li ₂ S Cathodes and Beyond: Status, Challenges, and Perspectives (Adv. Funct. Mater. 38/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870273	15.6	15
14	Serosa-Mimetic Nanoarchitecture Membranes for Highly Efficient Osmotic Energy Generation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16206-16216	16.4	14
13	Investigation of nano-sized Cu(II)O as a high capacity conversion material for Li-metal cells and lithium-ion full cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6556-6568	13	12
12	Squalene-derived sulfur-rich copolymer@ 3D graphene-carbon nanotube network cathode for high-performance lithium-sulfur batteries. <i>Polyhedron</i> , 2019 , 162, 147-154	2.7	12
11	A Stable Quasi-Solid-State Sodium-Sulfur Battery. <i>Angewandte Chemie</i> , 2018 , 130, 10325-10329	3.6	12
10	Fluid-Guided CVD Growth for Large-Scale Monolayer Two-Dimensional Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26342-26349	9.5	7

9	In situ visualizing the interplay between the separator and potassium dendrite growth by synchrotron X-ray tomography. <i>Nano Energy</i> , 2021 , 83, 105841	17.1	6
8	Recent progress in solution assembly of 2D materials for wearable energy storage applications. <i>Journal of Energy Chemistry</i> , 2021 , 62, 27-42	12	5
7	Polyolefin-Based Janus Separator for Rechargeable Sodium Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 16868-16877	3.6	3
6	Cavitation causes brain injury. <i>Physics of Fluids</i> , 2021 , 33, 031908	4.4	3
5	Multi-ion Strategy toward Highly Durable Calcium/Sodium-Sulfur Hybrid Battery. <i>Nano Letters</i> , 2021 , 21, 3548-3556	11.5	3
4	Electrolytes: In Situ Synthesis of a Hierarchical All-Solid-State Electrolyte Based on Nitrile Materials for High-Performance Lithium-Ion Batteries (Adv. Energy Mater. 15/2015). <i>Advanced Energy Materials</i> , 2015 , 5, n/a-n/a	21.8	2
3	Supercool sulfur. <i>Nature Nanotechnology</i> , 2020 , 15, 167-168	28.7	0
2	Sulfur-Containing Polymer Cathode Materials for LiS Batteries. <i>Modern Aspects of Electrochemistry</i> , 2022 , 295-330		0
1	Localized Water-In-Salt Electrolyte for Aqueous Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 20118-20126	3.6	0