

Fudong Han

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

16,839
citations

23500

58
h-index

62479

80
g-index

84
all docs

84
docs citations

84
times ranked

13351
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly reversible zinc metal anode for aqueous batteries. <i>Nature Materials</i> , 2018, 17, 543-549.	13.3	2,080
2	Expanded graphite as superior anode for sodium-ion batteries. <i>Nature Communications</i> , 2014, 5, 4033.	5.8	1,472
3	Zn/MnO ₂ Battery Chemistry With H ⁺ and Zn ²⁺ Coinsertion. <i>Journal of the American Chemical Society</i> , 2017, 139, 9775-9778.	6.6	1,375
4	High electronic conductivity as the origin of lithium dendrite formation within solid electrolytes. <i>Nature Energy</i> , 2019, 4, 187-196.	19.8	1,099
5	Electrochemical Stability of Li ₁₀ GeP ₂ S ₁₂ and Li ₇ La ₃ Zr ₂ O ₁₂ Solid Electrolytes. <i>Advanced Energy Materials</i> , 2016, 6, 1501590.	10.2	781
6	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. <i>Nature Energy</i> , 2019, 4, 882-890.	19.8	557
7	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. <i>Science Advances</i> , 2018, 4, eaau9245.	4.7	521
8	Interphase Engineering Enabled All-Ceramic Lithium Battery. <i>Joule</i> , 2018, 2, 497-508.	11.7	378
9	Red Phosphorus@Single-Walled Carbon Nanotube Composite as a Superior Anode for Sodium Ion Batteries. <i>ACS Nano</i> , 2015, 9, 3254-3264.	7.3	359
10	Lithium/Sulfide All-Solid-State Batteries using Sulfide Electrolytes. <i>Advanced Materials</i> , 2021, 33, e2000751.	11.1	356
11	High-Performance All-Solid-State Lithium-Sulfur Battery Enabled by a Mixed-Conductive Li ₂ S Nanocomposite. <i>Nano Letters</i> , 2016, 16, 4521-4527.	4.5	333
12	High-Performance All-Solid-State Lithium-Sulfur Batteries Enabled by Amorphous Sulfur-Coated Reduced Graphene Oxide Cathodes. <i>Advanced Energy Materials</i> , 2017, 7, 1602923.	10.2	331
13	Identifying the components of the solid-electrolyte interphase in Li-ion batteries. <i>Nature Chemistry</i> , 2019, 11, 789-796.	6.6	331
14	Suppressing Li Dendrite Formation in Li ₂ S@P ₂ S ₅ Solid Electrolyte by Lil Incorporation. <i>Advanced Energy Materials</i> , 2018, 8, 1703644.	10.2	303
15	A Battery Made from a Single Material. <i>Advanced Materials</i> , 2015, 27, 3473-3483.	11.1	291
16	Template-Free Synthesis of Interconnected Hollow Carbon Nanospheres for High-Performance Anode Material in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2011, 1, 798-801.	10.2	284
17	A rechargeable aqueous Zn ²⁺ -battery with high power density and a long cycle-life. <i>Energy and Environmental Science</i> , 2018, 11, 3168-3175.	15.6	258
18	High-Voltage Aqueous Magnesium Ion Batteries. <i>ACS Central Science</i> , 2017, 3, 1121-1128.	5.3	256

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19	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electro spray/Electrospinning Technique for Li-ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1400753.	10.2	247
20	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. <i>Nano Energy</i> , 2018, 53, 958-966.	8.2	227
21	Local electronic structure variation resulting in Li ⁻ filament TM formation within solid electrolytes. <i>Nature Materials</i> , 2021, 20, 1485-1490.	13.3	226
22	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9898-9901.	7.2	215
23	Superior Stable Self-Healing SnP ₃ Anode for Sodium-ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500174.	10.2	197
24	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 2438-2447.	6.6	195
25	Stabilizing high voltage LiCoO ₂ cathode in aqueous electrolyte with interphase-forming additive. <i>Energy and Environmental Science</i> , 2016, 9, 3666-3673.	15.6	190
26	Flexible Aqueous Li-ion Battery with High Energy and Power Densities. <i>Advanced Materials</i> , 2017, 29, 1701972.	11.1	175
27	Water-in-Salt electrolytes enable green and safe Li-ion batteries for large scale electric energy storage applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6639-6644.	5.2	172
28	A Highly Reversible, Dendrite-Free Lithium Metal Anode Enabled by a Lithium-Fluoride-Enriched Interphase. <i>Advanced Materials</i> , 2020, 32, e1906427.	11.1	168
29	Hybrid Mg ²⁺ /Li ⁺ Battery with Long Cycle Life and High Rate Capability. <i>Advanced Energy Materials</i> , 2015, 5, 1401507.	10.2	155
30	Cathode-Supported All-Solid-State Lithium-Sulfur Batteries with High Cell-Level Energy Density. <i>ACS Energy Letters</i> , 2019, 4, 1073-1079.	8.8	148
31	In situ synthesis of one-dimensional MWCNT/SiC porous nanocomposites with excellent microwave absorption properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 13581.	6.7	143
32	Preparation of Carbon Nano-Onions and Their Application as Anode Materials for Rechargeable Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8923-8927.	1.5	143
33	Ultrastable All-Solid-State Sodium Rechargeable Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2835-2841.	8.8	142
34	High energy-density and reversibility of iron fluoride cathode enabled via an intercalation-extrusion reaction. <i>Nature Communications</i> , 2018, 9, 2324.	5.8	136
35	High-Performance All-Inorganic Solid-State Sodium-Sulfur Battery. <i>ACS Nano</i> , 2017, 11, 4885-4891.	7.3	133
36	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI ₂ -DME Electrolyte. <i>Advanced Materials</i> , 2018, 30, 1704313.	11.1	122

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37	Ether-based electrolyte enabled Na/FeS ₂ rechargeable batteries. <i>Electrochemistry Communications</i> , 2015, 54, 18-22.	2.3	121
38	Reducing Mg Anode Overpotential via Ion Conductive Surface Layer Formation by Iodine Additive. <i>Advanced Energy Materials</i> , 2018, 8, 1701728.	10.2	107
39	Electrochemical Techniques for Intercalation Electrode Materials in Rechargeable Batteries. <i>Accounts of Chemical Research</i> , 2017, 50, 1022-1031.	7.6	105
40	Spinel LiNi _{0.5} Mn _{1.5} O ₄ Cathode for High-Energy Aqueous Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1600922.	10.2	103
41	High-Performance All-Solid-State Na-S Battery Enabled by Casting-Annealing Technology. <i>ACS Nano</i> , 2018, 12, 3360-3368.	7.3	102
42	Water-in-Salt electrolyte enabled LiMn ₂ O ₄ /TiS ₂ Lithium-ion batteries. <i>Electrochemistry Communications</i> , 2017, 82, 71-74.	2.3	99
43	Existence of Solid Electrolyte Interphase in Mg Batteries: Mg/S Chemistry as an Example. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14767-14776.	4.0	99
44	Tailoring Surface Acidity of Metal Oxide for Better Polysulfide Entrapment in Li-S Batteries. <i>Advanced Functional Materials</i> , 2016, 26, 7164-7169.	7.8	95
45	Nanostructuring versus microstructuring in battery electrodes. <i>Nature Reviews Materials</i> , 2022, 7, 736-746.	23.3	92
46	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. <i>Nano Energy</i> , 2015, 13, 537-545.	8.2	91
47	Stabilizing high sulfur loading Li-S batteries by chemisorption of polysulfide on three-dimensional current collector. <i>Nano Energy</i> , 2016, 30, 700-708.	8.2	90
48	A High-Performance Li-B-H Electrolyte for All-Solid-State Li Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809219.	7.8	88
49	Grain-boundary-resistance-less Na ₃ SbS ₄ -Se solid electrolytes for all-solid-state sodium batteries. <i>Nano Energy</i> , 2019, 66, 104109.	8.2	77
50	Carbon cage encapsulating nano-cluster Li ₂ S by ionic liquid polymerization and pyrolysis for high performance Li-S batteries. <i>Nano Energy</i> , 2015, 13, 467-473.	8.2	76
51	Sulfur-Embedded FeS ₂ as a High-Performance Cathode for Room Temperature All-Solid-State Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18519-18525.	4.0	76
52	Water-in-salt polymer electrolyte for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 2878-2887.	15.6	74
53	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. <i>ACS Nano</i> , 2017, 11, 9048-9056.	7.3	73
54	Mechanism Study on the Interfacial Stability of a Lithium Garnet-Type Oxide Electrolyte against Cathode Materials. <i>ACS Applied Energy Materials</i> , 2018, 1, 5968-5976.	2.5	72

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55	Construction of 3D Electronic/Ionic Conduction Networks for All-Solid-State Lithium Batteries. <i>Small</i> , 2019, 15, e1905849.	5.2	69
56	Bio-inspired Nanoscaled Electronic/Ionic Conduction Networks for Room-Temperature All-Solid-State Sodium-Sulfur Battery. <i>Nano Today</i> , 2020, 33, 100860.	6.2	67
57	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie</i> , 2016, 128, 10052-10055.	1.6	64
58	Architectural design and fabrication approaches for solid-state batteries. <i>MRS Bulletin</i> , 2018, 43, 775-781.	1.7	64
59	Dual-template synthesis of ordered mesoporous carbon/Fe ₂ O ₃ nanowires: high porosity and structural stability for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21501-21510.	5.2	46
60	Long Cycle Life All-Solid-State Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39645-39650.	4.0	44
61	Aqueous lithium-ion batteries with niobium tungsten oxide anodes for superior volumetric and rate capability. <i>Energy Storage Materials</i> , 2020, 27, 506-513.	9.5	40
62	Li alloy anodes for high-rate and high-areal-capacity solid-state batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12350-12358.	5.2	33
63	Facile Synthesis of Si ₃ N ₄ Nanocrystals Via an Organic-Inorganic Reaction Route. <i>Journal of the American Ceramic Society</i> , 2009, 92, 535-538.	1.9	28
64	Simple synthesis of mesoporous boron nitride with strong cathodoluminescence emission. <i>Journal of Solid State Chemistry</i> , 2011, 184, 859-862.	1.4	26
65	Microwave absorption properties of TiN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10032-10035.	2.8	23
66	Microwave absorption properties of MWCNT-SiC composites synthesized via a low temperature induced reaction. <i>AIP Advances</i> , 2011, 1, .	0.6	23
67	Toughening and reinforcing zirconia ceramics by introducing boron nitride nanotubes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 546, 301-306.	2.6	22
68	One-step preparation of six-armed Fe ₃ O ₄ dendrites with carbon coating applicable for anode material of lithium-ion battery. <i>Materials Letters</i> , 2011, 65, 3157-3159.	1.3	21
69	Synthesis of Carbon Spheres via a Low-Temperature Metathesis Reaction. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12134-12137.	1.5	15
70	Low-Temperature Synthesis of Meshy Boron Nitride with a Large Surface Area. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3174-3178.	1.0	14
71	Interfacial challenges in all-solid-state lithium batteries. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100933.	2.5	14
72	Rational Designed Mixed-Conductive Sulfur Cathodes for All-Solid-State Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36066-36071.	4.0	12

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73	Thermal formation of porous Fe ₃ O ₄ /C microspheres and the lithium storage performance. Journal of Alloys and Compounds, 2014, 597, 30-35.	2.8	11
74	Alloying of Alkali Metals with Tellurene. Advanced Energy Materials, 2021, 11, 2003248.	10.2	11
75	Large-scale preparation of hollow graphitic carbon nanospheres. Materials Chemistry and Physics, 2013, 137, 904-909.	2.0	10
76	Simple Preparation of Carbon Nanofibers with Graphene Layers Perpendicular to the Length Direction and the Excellent Li-Ion Storage Performance. ACS Applied Materials & Interfaces, 2015, 7, 5107-5115.	4.0	8
77	Rapid, Low-Temperature Synthesis of β -SiC Nanowires from Si and Graphite. Journal of the American Ceramic Society, 2010, 93, 2415-2418.	1.9	7
78	Solid-State Batteries: An Introduction. ACS Symposium Series, 0, , 1-20.	0.5	2
79	A catalyst-free method to silicon nanowires at relative low temperature. Journal of Crystal Growth, 2010, 312, 3579-3582.	0.7	1
80	Lithium-Sulfur Solid-State Batteries. ACS Symposium Series, 0, , 267-288.	0.5	1