

Fudong Han

List of Publications by Year in descending order

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80
papers

16,839
citations

23544

58
h-index

62565

80
g-index

84
all docs

84
docs citations

84
times ranked

13351
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial challenges in all-solid-state lithium batteries. <i>Current Opinion in Electrochemistry</i> , 2022, 33, 100933.	2.5	14
2	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
3	Nanostructuring versus microstructuring in battery electrodes. <i>Nature Reviews Materials</i> , 2022, 7, 736-746.	23.3	92
4	Lithium/Sulfide All-Solid-State Batteries using Sulfide Electrolytes. <i>Advanced Materials</i> , 2021, 33, e2000751.	11.1	356
5	Local electronic structure variation resulting in Li filament formation within solid electrolytes. <i>Nature Materials</i> , 2021, 20, 1485-1490.	13.3	226
6	Alloying of Alkali Metals with Tellurene. <i>Advanced Energy Materials</i> , 2021, 11, 2003248.	10.2	11
7	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. <i>Journal of the American Chemical Society</i> , 2020, 142, 2438-2447.	6.6	195
8	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
9	Ultrastable All-Solid-State Sodium Rechargeable Batteries. <i>ACS Energy Letters</i> , 2020, 5, 2835-2841.	8.8	142
10	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
11	Water-in-salt polymer electrolyte for Li-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 2878-2887.	15.6	74
12	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
13	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
14	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
15	Identifying the components of the solid electrolyte interphase in Li-ion batteries. <i>Nature Chemistry</i> , 2019, 11, 789-796.	6.6	331
16	Construction of 3D Electronic/Ionic Conduction Networks for All-Solid-State Lithium Batteries. <i>Small</i> , 2019, 15, e1905849.	5.2	69
17	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
18	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

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19	A High-Performance Li ⁺ -Based Electrolyte for All-Solid-State Li Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809219.	7.8	88
20	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. <i>Nature Energy</i> , 2019, 4, 882-890.	19.8	557
21	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
22	Interphase Engineering Enabled All-Ceramic Lithium Battery. <i>Joule</i> , 2018, 2, 497-508.	11.7	378
23	Highly reversible zinc metal anode for aqueous batteries. <i>Nature Materials</i> , 2018, 17, 543-549.	13.3	2,080
24	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
25	High-Performance All-Solid-State Na ⁺ S Battery Enabled by Casting-Annealing Technology. <i>ACS Nano</i> , 2018, 12, 3360-3368.	7.3	102
26	Suppressing Li Dendrite Formation in Li ₂ S ₅ Solid Electrolyte by LiI Incorporation. <i>Advanced Energy Materials</i> , 2018, 8, 1703644.	10.2	303
27	Reducing Mg Anode Overpotential via Ion Conductive Surface Layer Formation by Iodine Additive. <i>Advanced Energy Materials</i> , 2018, 8, 1701728.	10.2	107
28	Thermodynamics and Kinetics of Sulfur Cathode during Discharge in MgTFSI ₂ -DME Electrolyte. <i>Advanced Materials</i> , 2018, 30, 1704313.	11.1	122
29	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
30	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. <i>Science Advances</i> , 2018, 4, eaau9245.	4.7	521
31	Interface engineering of sulfide electrolytes for all-solid-state lithium batteries. <i>Nano Energy</i> , 2018, 53, 958-966.	8.2	227
32	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
33	Long Cycle Life All-Solid-State Sodium Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39645-39650.	4.0	44
34	Architectural design and fabrication approaches for solid-state batteries. <i>MRS Bulletin</i> , 2018, 43, 775-781.	1.7	64
35	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
36	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

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37	High-Performance All-Inorganic Solid-State Sodium–Sulfur Battery. <i>ACS Nano</i> , 2017, 11, 4885-4891.	7.3	133
38	Electrochemical Techniques for Intercalation Electrode Materials in Rechargeable Batteries. <i>Accounts of Chemical Research</i> , 2017, 50, 1022-1031.	7.6	105
39	Spinel $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode for High-Energy Aqueous Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1600922.	10.2	103
40	High-Voltage Aqueous Magnesium Ion Batteries. <i>ACS Central Science</i> , 2017, 3, 1121-1128.	5.3	256
41	Flexible Aqueous Li-Ion Battery with High Energy and Power Densities. <i>Advanced Materials</i> , 2017, 29, 1701972.	11.1	175
42	Reverse Microemulsion Synthesis of Sulfur/Graphene Composite for Lithium/Sulfur Batteries. <i>ACS Nano</i> , 2017, 11, 9048-9056.	7.3	73
43	Water-in-Salt electrolyte enabled $\text{LiMn}_2\text{O}_4/\text{TiS}_2$ Lithium-ion batteries. <i>Electrochemistry Communications</i> , 2017, 82, 71-74.	2.3	99
44	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
45	Electrochemical Stability of $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ and $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ Solid Electrolytes. <i>Advanced Energy Materials</i> , 2016, 6, 1501590.	10.2	781
46	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
47	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie</i> , 2016, 128, 10052-10055.	1.6	64
48	A Rechargeable Al/S Battery with an Ionic-Liquid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9898-9901.	7.2	215
49	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
50	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
51	High-Performance All-Solid-State Lithium–Sulfur Battery Enabled by a Mixed-Conductive Li_2S Nanocomposite. <i>Nano Letters</i> , 2016, 16, 4521-4527.	4.5	333
52	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
53	Superior Stable Self-Healing SnP_3 Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500174.	10.2	197
54	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

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55	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
56	Simple Preparation of Carbon Nanofibers with Graphene Layers Perpendicular to the Length Direction and the Excellent Li-Ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5107-5115.	4.0	8
57	A Battery Made from a Single Material. <i>Advanced Materials</i> , 2015, 27, 3473-3483.	11.1	291
58	Ether-based electrolyte enabled Na/FeS ₂ rechargeable batteries. <i>Electrochemistry Communications</i> , 2015, 54, 18-22.	2.3	121
59	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. <i>Nano Energy</i> , 2015, 13, 537-545.	8.2	91
60	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
61	Hybrid Mg ²⁺ /Li ⁺ Battery with Long Cycle Life and High Rate Capability. <i>Advanced Energy Materials</i> , 2015, 5, 1401507.	10.2	155
62	3D Si/C Fiber Paper Electrodes Fabricated Using a Combined Electrospray/Electrospinning Technique for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1400753.	10.2	247
63	Thermal formation of porous Fe ₃ O ₄ /C microspheres and the lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2014, 597, 30-35.	2.8	11
64	Expanded graphite as superior anode for sodium-ion batteries. <i>Nature Communications</i> , 2014, 5, 4033.	5.8	1,472
65	Large-scale preparation of hollow graphitic carbon nanospheres. <i>Materials Chemistry and Physics</i> , 2013, 137, 904-909.	2.0	10
66	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
67	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
68	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
69	Microwave absorption properties of TiN nanoparticles. <i>Journal of Alloys and Compounds</i> , 2011, 509, 10032-10035.	2.8	23
70	Microwave absorption properties of MWCNT-SiC composites synthesized via a low temperature induced reaction. <i>AIP Advances</i> , 2011, 1, .	0.6	23
71	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
72	Simple synthesis of mesoporous boron nitride with strong cathodoluminescence emission. <i>Journal of Solid State Chemistry</i> , 2011, 184, 859-862.	1.4	26

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73	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
74	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
75	A catalyst-free method to silicon nanowires at relative low temperature. <i>Journal of Crystal Growth</i> , 2010, 312, 3579-3582.	0.7	1
76	Rapid, Low-Temperature Synthesis of Si_3N_4 Nanowires from Si and Graphite. <i>Journal of the American Ceramic Society</i> , 2010, 93, 2415-2418.	1.9	7
77	Facile Synthesis of Si_3N_4 Nanocrystals Via an Organic-Inorganic Reaction Route. <i>Journal of the American Ceramic Society</i> , 2009, 92, 535-538.	1.9	28
78	Synthesis of Carbon Spheres via a Low-Temperature Metathesis Reaction. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12134-12137.	1.5	15
79	Solid-State Batteries: An Introduction. <i>ACS Symposium Series</i> , 0, , 1-20.	0.5	2
80	Lithium-Sulfur Solid-State Batteries. <i>ACS Symposium Series</i> , 0, , 267-288.	0.5	1