

Feixiang Wu

List of Publications by Year in descending order

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94
papers

12,441
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76326

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48315

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all docs

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docs citations

99
times ranked

13118
citing authors

#	ARTICLE	IF	CITATIONS
1	Li-ion battery materials: present and future. <i>Materials Today</i> , 2015, 18, 252-264.	14.2	5,353
2	Guidelines and trends for next-generation rechargeable lithium and lithium-ion batteries. <i>Chemical Society Reviews</i> , 2020, 49, 1569-1614.	38.1	1,326
3	Conversion cathodes for rechargeable lithium and lithium-ion batteries. <i>Energy and Environmental Science</i> , 2017, 10, 435-459.	30.8	545
4	Washing effects on electrochemical performance and storage characteristics of LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ as cathode material for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 222, 318-325.	7.8	317
5	Lithium metal anodes: Present and future. <i>Journal of Energy Chemistry</i> , 2020, 48, 145-159.	12.9	311
6	Lithium Iodide as a Promising Electrolyte Additive for Lithium-Sulfur Batteries: Mechanisms of Performance Enhancement. <i>Advanced Materials</i> , 2015, 27, 101-108.	21.0	304
7	Recent progress of surface coating on cathode materials for high-performance lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 43, 220-235.	12.9	272
8	Single Atom Catalysts for Fuel Cells and Rechargeable Batteries: Principles, Advances, and Opportunities. <i>ACS Nano</i> , 2021, 15, 210-239.	14.6	199
9	In Situ Formation of Protective Coatings on Sulfur Cathodes in Lithium Batteries with LiFSI-Based Organic Electrolytes. <i>Advanced Energy Materials</i> , 2015, 5, 1401792.	19.5	189
10	Micro- and Mesoporous Carbide-Derived Carbon-Selenium Cathodes for High-Performance Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1400981.	19.5	144
11	Graphene-Li ₂ S-Carbon Nanocomposite for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016, 10, 1333-1340.	14.6	144
12	Harnessing Steric Separation of Freshly Nucleated Li ₂ S Nanoparticles for Bottom-Up Assembly of High-Performance Cathodes for Lithium-Sulfur and Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400196.	19.5	135
13	Nanoporous Li ₂ S and MWCNT-linked Li ₂ S powder cathodes for lithium-sulfur and lithium-ion battery chemistries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6064-6070.	10.3	128
14	A Sulfur-Limonene-Based Electrode for Lithium-Sulfur Batteries: High-Performance by Self-Protection. <i>Advanced Materials</i> , 2018, 30, e1706643.	21.0	114
15	A Hierarchical Particle-Shell Architecture for Long-Term Cycle Stability of Li ₂ S Cathodes. <i>Advanced Materials</i> , 2015, 27, 5579-5586.	21.0	111
16	Recent Advances and Applications Toward Emerging Lithium-Sulfur Batteries: Working Principles and Opportunities. <i>Energy and Environmental Materials</i> , 2022, 5, 777-799.	12.8	106
17	Layered LiTiO ₂ for the protection of Li ₂ S cathodes against dissolution: mechanisms of the remarkable performance boost. <i>Energy and Environmental Science</i> , 2018, 11, 807-817.	30.8	103
18	Multi-electron reaction materials for sodium-based batteries. <i>Materials Today</i> , 2018, 21, 960-973.	14.2	103

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19	Infiltrated Porous Polymer Sheets as Free-standing Flexible Lithium-Sulfur Battery Electrodes. <i>Advanced Materials</i> , 2016, 28, 6365-6371.	21.0	102
20	Solution-Based Processing of Graphene-Li ₂ S Composite Cathodes for Lithium-Ion and Lithium-Sulfur Batteries. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 639-644.	2.3	99
21	Preparation and characterization of flake graphite/silicon/carbon spherical composite as anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2012, 530, 30-35.	5.5	96
22	Petal-like Li ₄ Ti ₅ O ₁₂ -TiO ₂ nanosheets as high-performance anode materials for Li-ion batteries. <i>Nanoscale</i> , 2013, 5, 6936.	5.6	95
23	Boosting High-Performance in Lithium-Sulfur Batteries via Dilute Electrolyte. <i>Nano Letters</i> , 2020, 20, 5391-5399.	9.1	93
24	3D Honeycomb Architecture Enables a High-Rate and Long-Life Iron (III) Fluoride-Lithium Battery. <i>Advanced Materials</i> , 2019, 31, e1905146.	21.0	84
25	Hierarchical Metal Sulfide/Carbon Spheres: A Generalized Synthesis and High Sodium Storage Performance. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7238-7243.	13.8	80
26	Towards stable lithium-sulfur battery cathodes by combining physical and chemical confinement of polysulfides in core-shell structured nitrogen-doped carbons. <i>Carbon</i> , 2020, 161, 162-168.	10.3	76
27	Air-stable inorganic solid-state electrolytes for high energy density lithium batteries: Challenges, strategies, and prospects. <i>Informa-Materially</i> , 2022, 4, .	17.3	71
28	Metal-Organic Framework-Derived Nanoconfinements of CoF ₂ and Mixed-Conducting Wiring for High-Performance Metal Fluoride-Lithium Battery. <i>ACS Nano</i> , 2021, 15, 1509-1518.	14.6	69
29	Enhancing the Stability of Sulfur Cathodes in Li-S Cells via in Situ Formation of a Solid Electrolyte Layer. <i>ACS Energy Letters</i> , 2016, 1, 373-379.	17.4	61
30	Regulation of Breathing CuO Nanoarray Electrodes for Enhanced Electrochemical Sodium Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1707179.	14.9	61
31	Hydrogen titanate and TiO ₂ nanowires as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 12675.	6.7	55
32	Low-temperature synthesis of nano-micron Li ₄ Ti ₅ O ₁₂ by an aqueous mixing technique and its excellent electrochemical performance. <i>Journal of Power Sources</i> , 2012, 202, 374-379.	7.8	55
33	Nanostructured Li ₂ Se cathodes for high performance lithium-selenium batteries. <i>Nano Energy</i> , 2016, 27, 238-246.	16.0	54
34	Toward in-situ protected sulfur cathodes by using lithium bromide and pre-charge. <i>Nano Energy</i> , 2017, 40, 170-179.	16.0	53
35	Hydrogen peroxide leaching of hydrolyzed titania residue prepared from mechanically activated Panzhihua ilmenite leached by hydrochloric acid. <i>International Journal of Mineral Processing</i> , 2011, 98, 106-112.	2.6	51
36	Natural Vermiculite Enables High-Performance in Lithium-Sulfur Batteries via Electrical Double Layer Effects. <i>Advanced Functional Materials</i> , 2019, 29, 1902820.	14.9	50

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37	Boosting Lithium Storage in Free-Standing Black Phosphorus Anode via Multifunction of Nanocellulose. ACS Applied Materials & Interfaces, 2020, 12, 31628-31636.	8.0	48
38	Recent Developments of Two-Dimensional Anode Materials and Their Composites in Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 7440-7461.	5.1	48
39	In situ surface protection for enhancing stability and performance of conversion-type cathodes. MRS Energy & Sustainability, 2017, 4, 1.	3.0	47
40	Preparation of TiO ₂ from ilmenite using sulfuric acid decomposition of the titania residue combined with separation of Fe ³⁺ with EDTA during hydrolysis. Advanced Powder Technology, 2013, 24, 60-67.	4.1	46
41	A stable lithiated silicon-chalcogen battery via synergetic chemical coupling between silicon and selenium. Nature Communications, 2017, 8, 13888.	12.8	46
42	In Situ Surface Protection for Enhancing Stability and Performance of LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ at 4.8 V: The Working Mechanisms. , 2020, 2, 280-290.		44
43	Influence of annealing on ionic transfer and storage stability of Li ₂ S-P ₂ S ₅ solid electrolyte. Journal of Power Sources, 2015, 294, 494-500.	7.8	41
44	A novel method to synthesize anatase TiO ₂ nanowires as an anode material for lithium-ion batteries. Journal of Alloys and Compounds, 2011, 509, 3711-3715.	5.5	40
45	Effect of synthesis routes on the electrochemical performance of Li[Ni _{0.6} Co _{0.2} Mn _{0.2}]O ₂ for lithium ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 3849-3854.	2.5	40
46	Characterization of spherical-shaped Li ₄ Ti ₅ O ₁₂ prepared by spray drying. Electrochimica Acta, 2012, 78, 331-339.	5.2	38
47	Li ₄ Ti ₅ O ₁₂ /Reduced Graphene Oxide composite as a high rate capability material for lithium ion batteries. Solid State Ionics, 2013, 236, 30-36.	2.7	37
48	Oxygen-induced lithiophilicity of tin-based framework toward highly stable lithium metal anode. Chemical Engineering Journal, 2020, 394, 124848.	12.7	36
49	Intrathecal Infusion of Hydrogen-Rich Normal Saline Attenuates Neuropathic Pain via Inhibition of Activation of Spinal Astrocytes and Microglia in Rats. PLoS ONE, 2014, 9, e97436.	2.5	34
50	Spherical Li ₄ Ti ₅ O ₁₂ synthesized by spray drying from a different kind of solution. Journal of Alloys and Compounds, 2012, 540, 39-45.	5.5	33
51	Stabilization of selenium cathodes via in situ formation of protective solid electrolyte layer. Journal of Materials Chemistry A, 2014, 2, 18898-18905.	10.3	32
52	A 3D conducting scaffold with in-situ grown lithiophilic Ni ₂ P nanoarrays for high stability lithium metal anodes. Journal of Energy Chemistry, 2021, 54, 301-309.	12.9	32
53	Synthesis and Redox Mechanism of Cation-Disordered, Rock-Salt Cathode-Material LiNiTiNbO Compounds for a Li-Ion Battery. ACS Applied Materials & Interfaces, 2019, 11, 35777-35787.	8.0	31
54	High-performance lithium-ion battery anodes based on Mn ₃ O ₄ /nitrogen-doped porous carbon hybrid structures. Journal of Alloys and Compounds, 2019, 775, 51-58.	5.5	31

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55	Synthesis of chromium-doped lithium titanate microspheres as high-performance anode material for lithium ion batteries. <i>Ceramics International</i> , 2014, 40, 13195-13204.	4.8	30
56	Preparation of synthetic rutile and metal-doped LiFePO ₄ from ilmenite. <i>Powder Technology</i> , 2010, 199, 293-297.	4.2	29
57	Simple preparation of petal-like TiO ₂ nanosheets as anode materials for lithium-ion batteries. <i>Ceramics International</i> , 2014, 40, 16805-16810.	4.8	29
58	Toward True Lithium-Air Batteries. <i>Joule</i> , 2018, 2, 815-817.	24.0	29
59	Strategies for fabrication, confinement and performance boost of Li ₂ S in lithium-sulfur, silicon-sulfur & related batteries. <i>Materials Today</i> , 2021, 49, 253-270.	14.2	29
60	Preparation and characterization of spinel Li ₄ Ti ₅ O ₁₂ anode material from industrial titanyl sulfate solution. <i>Journal of Alloys and Compounds</i> , 2011, 509, 596-601.	5.5	28
61	Sublayer-enhanced atomic sites of single atom catalysts through <i>in situ</i> atomization of metal oxide nanoparticles. <i>Energy and Environmental Science</i> , 2022, 15, 1183-1191.	30.8	25
62	Preparation of TiO ₂ nanosheets and Li ₄ Ti ₅ O ₁₂ anode material from natural ilmenite. <i>Powder Technology</i> , 2011, 213, 192-198.	4.2	24
63	Tuning Low Concentration Electrolytes for High Rate Performance in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100512.	2.9	24
64	High performance LiV ₃ O ₈ cathode materials prepared by spray-drying method. <i>Electrochimica Acta</i> , 2012, 71, 206-212.	5.2	23
65	A novel process for producing synthetic rutile and LiFePO ₄ cathode material from ilmenite. <i>Journal of Alloys and Compounds</i> , 2010, 506, 271-278.	5.5	21
66	Preparation of high-value TiO ₂ nanowires by leaching of hydrolyzed titania residue from natural ilmenite. <i>Hydrometallurgy</i> , 2013, 140, 82-88.	4.3	21
67	Synthesis and characterization of Li ₄ Ti ₅ O ₁₂ /graphene composite as anode material with enhanced electrochemical performance. <i>Ionics</i> , 2013, 19, 717-723.	2.4	20
68	Effect of remote ischemic preconditioning on hepatic ischemia-reperfusion injury in patients undergoing liver resection: a randomized controlled trial. <i>Minerva Anestesiologica</i> , 2020, 86, 252-260.	1.0	19
69	Fiber Ring Laser Sensor for Temperature Measurement. <i>Journal of Lightwave Technology</i> , 2010, , .	4.6	17
70	Inducible Lentivirus-Mediated siRNA against TLR4 Reduces Nociception in a Rat Model of Bone Cancer Pain. <i>Mediators of Inflammation</i> , 2015, 2015, 1-7.	3.0	17
71	Electrochemical performance of expanded graphite prepared from anthracite via a microwave method. <i>Fuel Processing Technology</i> , 2022, 227, 107100.	7.2	16
72	Inexpensive synthesis of anatase TiO ₂ nanowires by a novel method and its electrochemical characterization. <i>Materials Letters</i> , 2011, 65, 1514-1517.	2.6	15

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73	Small Interference RNA Targeting TLR4 Gene Effectively Attenuates Pulmonary Inflammation in a Rat Model. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-8.	3.0	15
74	Conductive surface modification with copper of Li ₄ Ti ₅ O ₁₂ as anode materials for Li-ion batteries. <i>Materials Letters</i> , 2013, 107, 273-275.	2.6	14
75	Lentiviral-mediated inducible silencing of TLR4 attenuates neuropathic pain in a rat model of chronic constriction injury. <i>Molecular Medicine Reports</i> , 2018, 18, 5545-5551.	2.4	10
76	Hypoxia preconditioning attenuates lung injury after thoracoscopic lobectomy in patients with lung cancer: a prospective randomized controlled trial. <i>BMC Anesthesiology</i> , 2019, 19, 209.	1.8	9
77	Lentivirus Mediated siRNA against GluN2B Subunit of NMDA Receptor Reduces Nociception in a Rat Model of Neuropathic Pain. <i>BioMed Research International</i> , 2014, 2014, 1-7.	1.9	7
78	Fabrication of wafer-scale nanopatterned sapphire substrate by hybrid nanoimprint lithography. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, .	1.2	7
79	Preparation and characterization of Li ₄ Ti ₅ O ₁₂ from ilmenite. <i>Powder Technology</i> , 2010, 204, 198-202.	4.2	6
80	Enhancing Electrochemical Performance of CoF ₂ Li Batteries via Honeycombed Nanocomposite Cathode. <i>Energy & Fuels</i> , 0, , .	5.1	6
81	Synthesis of high performance Li ₄ Ti ₅ O ₁₂ microspheres and TiO ₂ nanowires from natural ilmenite. <i>RSC Advances</i> , 2014, 4, 40111-40119.	3.6	5
82	Transgenic increase in the δ -endorphin concentration in cerebrospinal fluid alleviates morphine-primed relapse behavior through the μ opioid receptor in rats. <i>Journal of Medical Virology</i> , 2019, 91, 1158-1167.	5.0	5
83	Honeycomb Structured δ -MnS@N-HC Nanocomposite Fabricated by Sol-Gel Pyrolysis Blowing Method and Its High-Performance Lithium Storage. <i>Materials Today Energy</i> , 2021, 22, 100876.	4.7	5
84	Bilirubin Induces Pain Desensitization in Cholestasis by Activating 5-Hydroxytryptamine 3A Receptor in Spinal Cord. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 605855.	3.7	4
85	Lithium-Ion Batteries. , 2021, , .		3
86	Inhibition of the norepinephrine transporter rescues vascular hyporeactivity to catecholamine in obstructive jaundice. <i>European Journal of Pharmacology</i> , 2021, 900, 174055.	3.5	3
87	Nanostructured composites for high energy batteries and supercapacitors. , 2015, , .		2
88	Metal Fluoride-Lithium Batteries: 3D Honeycomb Architecture Enables a High-Rate and Long-Life Iron (III) Fluoride-Lithium Battery (Adv. Mater. 43/2019). <i>Advanced Materials</i> , 2019, 31, 1970304.	21.0	2
89	Recent progress in the design of anionic redox in layered oxide electrodes: A mini review. <i>Electrochemistry Communications</i> , 2021, 124, 106969.	4.7	2
90	Efficacy Assessment of Phentolamine Accompanied by Lidocaine Subcutaneously under Ultrasound Guidance on Radial Artery Catheterization in Pediatric Patients. <i>BioMed Research International</i> , 2022, 2022, 1-8.	1.9	2

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91	Novel Synthesis of LiFePO ₄ and Li ₄ Ti ₅ O ₁₂ from Natural Ilmenite. Chemistry Letters, 2010, 39, 806-807.	1.3	1
92	Lithium Sulfide Cathodes: A Hierarchical Particle-Shell Architecture for Long-Term Cycle Stability of Li ₂ S Cathodes (Adv. Mater. 37/2015). Advanced Materials, 2015, 27, 5578-5578.	21.0	1
93	Engineered endomorphin-2 gene: A novel therapy for improving morphine reinstatement in CPP model of rats by using deficient adenovirus as the vector. Biochemical and Biophysical Research Communications, 2019, 513, 141-146.	2.1	1
94	Bioinformatics Analysis for Identifying Pertinent Pathways and Genes in Sepsis. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-7.	1.3	0