

Jin Xie

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

11,849
citations

66336

42
h-index

114455

63
g-index

67
all docs

67
docs citations

67
times ranked

10815
citing authors

#	ARTICLE	IF	CITATIONS
1	Layered reduced graphene oxide with nanoscale interlayer gaps as a stable host for lithium metal anodes. <i>Nature Nanotechnology</i> , 2016, 11, 626-632.	31.5	1,557
2	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. <i>Nature Nanotechnology</i> , 2019, 14, 705-711.	31.5	773
3	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016, 353, 1019-1023.	12.6	764
4	An Artificial Solid Electrolyte Interphase with High Li ⁺ Ion Conductivity, Mechanical Strength, and Flexibility for Stable Lithium Metal Anodes. <i>Advanced Materials</i> , 2017, 29, 1605531.	21.0	747
5	A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2016, 28, 9551-9558.	21.0	514
6	Conductive and Catalytic Triple-Phase Interfaces Enabling Uniform Nucleation in High-Rate Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1802768.	19.5	508
7	Self-healing SEI enables full-cell cycling of a silicon-majority anode with a coulombic efficiency exceeding 99.9%. <i>Energy and Environmental Science</i> , 2017, 10, 580-592.	30.8	421
8	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017, 3, e1700895.	10.3	399
9	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , 2017, 139, 11550-11558.	13.7	398
10	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. <i>Nature Energy</i> , 2017, 2, .	39.5	388
11	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017, 12, 993-999.	31.5	376
12	Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode. <i>Advanced Energy Materials</i> , 2019, 9, 1900858.	19.5	333
13	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019, 31, e1903813.	21.0	310
14	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3779-3783.	13.8	296
15	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018, 30, 1705219.	21.0	276
16	Vertically Aligned and Continuous Nanoscale Ceramic-Polymer Interfaces in Composite Solid Polymer Electrolytes for Enhanced Ionic Conductivity. <i>Nano Letters</i> , 2018, 18, 3829-3838.	9.1	268
17	Stitching h-BN by atomic layer deposition of LiF as a stable interface for lithium metal anode. <i>Science Advances</i> , 2017, 3, eaao3170.	10.3	252
18	Porphyriderived Graphene-Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1800849.	19.5	211

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19	Wrinkled Graphene Cages as Hosts for High-Capacity Li Metal Anodes Shown by Cryogenic Electron Microscopy. <i>Nano Letters</i> , 2019, 19, 1326-1335.	9.1	193
20	Strong texturing of lithium metal in batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12138-12143.	7.1	188
21	Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode. <i>ACS Nano</i> , 2019, 13, 6431-6437.	14.6	181
22	Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. <i>Nature Chemistry</i> , 2019, 11, 382-389.	13.6	180
23	Fast lithium growth and short circuit induced by localized-temperature hotspots in lithium batteries. <i>Nature Communications</i> , 2019, 10, 2067.	12.8	177
24	Non-solvating and Low-dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11442-11447.	13.8	169
25	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9011-9017.	13.8	164
26	Engineering stable interfaces for three-dimensional lithium metal anodes. <i>Science Advances</i> , 2018, 4, eaat5168.	10.3	153
27	Lithium metal stripping beneath the solid electrolyte interphase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8529-8534.	7.1	150
28	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable Lithium-Sulfur Batteries. <i>CCS Chemistry</i> , 0, , 128-137.	7.8	131
29	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	96
30	Beaver-dam-like membrane: A robust and sulphilic MgBO ₂ (OH)/CNT/PP nest separator in Li-S batteries. <i>Energy Storage Materials</i> , 2017, 8, 153-160.	18.0	86
31	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16223-16227.	13.8	85
32	An Interconnected Channel-Like Framework as Host for Lithium Metal Composite Anodes. <i>Advanced Energy Materials</i> , 2019, 9, 1802720.	19.5	83
33	Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. <i>Science Advances</i> , 2019, 5, eaau5655.	10.3	79
34	Engineering the surface of LiCoO ₂ electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. <i>Nano Research</i> , 2017, 10, 3754-3764.	10.4	78
35	Amidoxime-Functionalized Macroporous Carbon Self-Refreshed Electrode Materials for Rapid and High-Capacity Removal of Heavy Metal from Water. <i>ACS Central Science</i> , 2019, 5, 719-726.	11.3	76
36	A Prussian blue route to nitrogen-doped graphene aerogels as efficient electrocatalysts for oxygen reduction with enhanced active site accessibility. <i>Nano Research</i> , 2017, 10, 1213-1222.	10.4	73

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37	Fluorinating the Solid Electrolyte Interphase by Rational Molecular Design for Practical Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	68
38	A Successive Conversion-Deintercalation Delithiation Mechanism for Practical Composite Lithium Anodes. <i>Journal of the American Chemical Society</i> , 2022, 144, 212-218.	13.7	66
39	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , 2018, 18, 1130-1138.	9.1	65
40	From Supramolecular Species to Self-Templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4963-4967.	13.8	59
41	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22150-22155.	13.8	55
42	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-Immobilized Redox Mediators in Working Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17670-17675.	13.8	54
43	Graphene-based Fe-coordinated framework porphyrin as an interlayer for lithium-sulfur batteries. <i>Materials Chemistry Frontiers</i> , 2019, 3, 615-619.	5.9	47
44	Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion. <i>Angewandte Chemie</i> , 2020, 132, 9096-9102.	2.0	42
45	Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal. <i>Angewandte Chemie</i> , 2019, 131, 3819-3823.	2.0	41
46	Polyoxovanadate-polymer hybrid electrolyte in solid state batteries. <i>Energy Storage Materials</i> , 2020, 29, 172-181.	18.0	39
47	Solvent-Engineered Scalable Production of Polysulfide-Blocking Shields to Enhance Practical Lithium-Sulfur Batteries. <i>Small Methods</i> , 2018, 2, 1800100.	8.6	23
48	An Ultrathin Functional Layer Based on Porous Organic Cages for Selective Ion Sieving and Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2022, 22, 2030-2037.	9.1	20
49	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2017, 129, 16441-16445.	2.0	19
50	Non-Solvating and Low-Dielectricity Cosolvent for Anion-Derived Solid Electrolyte Interphases in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 11543-11548.	2.0	19
51	A Supramolecular Electrolyte for Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 47-51.	4.7	17
52	Fluorinating the Solid Electrolyte Interphase by Rational Molecular Design for Practical Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	10
53	Direct Intermediate Regulation Enabled by Sulfur Containers in Working Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2020, 132, 22334-22339.	2.0	9
54	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	9

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55	From Supramolecular Species to Self-templated Porous Carbon and Metal-Doped Carbon for Oxygen Reduction Reaction Catalysts. <i>Angewandte Chemie</i> , 2019, 131, 5017-5021.	2.0	7
56	Make best use of social networks via more valuable friend recommendations. , 2012, , .		6
57	Spatial and Kinetic Regulation of Sulfur Electrochemistry on Semi-immobilized Redox Mediators in Working Batteries. <i>Angewandte Chemie</i> , 2020, 132, 17823-17828.	2.0	5
58	Lithium-Sulfur Batteries: A Cooperative Interface for Highly Efficient Lithium-Sulfur Batteries (Adv.) <i>Tj ETQq0 0 0 rgBT /Overlock 10</i>	21.8	3
59	One-pot synthesis of triazine-framework derived catalysts with high performance for polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , 2016, 6, 21617-21623.	3.6	2
60	Innentitelbild: Activating Inert Metallic Compounds for High-Rate Lithium-Sulfur Batteries Through In Situ Etching of Extrinsic Metal (<i>Angew. Chem.</i> 12/2019). <i>Angewandte Chemie</i> , 2019, 131, 3692-3692.	2.0	1
61	RÄ¼cktitelbild: Electrochemical Phase Evolution of Metal-Based Pre-Catalysts for High-Rate Polysulfide Conversion (<i>Angew. Chem.</i> 23/2020). <i>Angewandte Chemie</i> , 2020, 132, 9278-9278.	2.0	1
62	InnenrÄ¼cktitelbild: A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithium-Sulfur Batteries (<i>Angew. Chem.</i> 51/2017). <i>Angewandte Chemie</i> , 2017, 129, 16635-16635.	2.0	0
63	A Supramolecular Electrolyte for Lithium-Metal Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 5-5.	4.7	0