Jin Xie

List of Publications by Year
in descending order

63 papers	11,849 citations	66343 42 h-index	114465 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. Nature Nanotechnology, 2016, 11, 626-632.	31.5	1,557
2	Ultrathin, flexible, solid polymer composite electrolyte enabled with aligned nanoporous host for lithium batteries. Nature Nanotechnology, 2019, 14, 705-711.	31.5	773
3	Radiative human body cooling by nanoporous polyethylene textile. Science, 2016, 353, 1019-1023.	12.6	764
4	An Artificial Solid Electrolyte Interphase with High Liâ€Ion Conductivity, Mechanical Strength, and Flexibility for Stable Lithium Metal Anodes. Advanced Materials, 2017, 29, 1605531.	21.0	747
5	A Cooperative Interface for Highly Efficient Lithiumâ€“Sulfur Batteries. Advanced Materials, 2016, 28, 9551-9558.	21.0	514
6	Conductive and Catalytic Tripleâ€Phase Interfaces Enabling Uniform Nucleation in Highâ€Rate Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 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%. Energy and Environmental Science, 2017, 10, 580-592.	30.8	421
8	A dual-mode textile for human body radiative heating and cooling. Science Advances, 2017, 3, e1700895.	10.3	399
9	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. Journal of the American Chemical Society, 2017, 139, 11550-11558.	13.7	398
10	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. Nature Energy, 2017, 2, .	39.5	388
11	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. Nature Nanotechnology, 2017, 12, 993-999.	31.5	376
12	Uniform High Ionic Conducting Lithium Sulfide Protection Layer for Stable Lithium Metal Anode. Advanced Energy Materials, 2019, 9, 1900858.	19.5	333
13	Implanting Atomic Cobalt within Mesoporous Carbon toward Highly Stable Lithiumâ€“Sulfur Batteries. Advanced Materials, 2019, 31, e1903813.	21.0	310
14	Activating Inert Metallic Compounds for Highâ€Rate Lithiumâ€“Sulfur Batteries Through In Situ Etching of Extrinsic Metal. Angewandte Chemie - International Edition, 2019, 58, 3779-3783.	13.8	296
15	A Bifunctional Perovskite Promoter for Polysulfide Regulation toward Stable Lithiumâ€“Sulfur Batteries. Advanced Materials, 2018, 30, 1705219.	21.0	276
16	Vertically Aligned and Continuous Nanoscale Ceramicâ€“Polymer Interfaces in Composite Solid Polymer Electrolytes for Enhanced Ionic Conductivity. Nano Letters, 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. Science Advances, 2017, 3, eaao3170.	10.3	252
18	Porphyrinâ€Derived Grapheneâ€Based Nanosheets Enabling Strong Polysulfide Chemisorption and Rapid Kinetics in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 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. Nano Letters, 2019, 19, 1326-1335.	9.1	193
20	Strong texturing of lithium metal in batteries. Proceedings of the National Academy of Sciences of the United States of America, 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. ACS Nano, 2019, 13, 6431-6437.	14.6	181
22	Fast galvanic lithium corrosion involving a Kirkendall-type mechanism. Nature Chemistry, 2019, 11, 382-389.	13.6	180
23	Fast lithium growth and short circuit induced by localized-temperature hotspots in lithium batteries. Nature Communications, 2019, 10, 2067.	12.8	177
24	Nonâ€Solvating and Lowâ€Dielectricity Cosolvent for Anionâ€Derived Solid Electrolyte Interphases in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 11442-11447.	13.8	169
25	Electrochemical Phase Evolution of Metalâ€Based Preâ€Catalysts for Highâ€Rate Polysulfide Conversion. Angewandte Chemie - International Edition, 2020, 59, 9011-9017.	13.8	164
26	Engineering stable interfaces for three-dimensional lithium metal anodes. Science Advances, 2018, 4, eaat5168.	10.3	153
27	Lithium metal stripping beneath the solid electrolyte interphase. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8529-8534.	7.1	150
28	Polysulfide Electrocatalysis on Framework Porphyrin in High-Capacity and High-Stable Lithiumâ€"Sulfur Batteries. CCS Chemistry, 0, , 128-137.	7.8	131
29	Modification of Nitrate Ion Enables Stable Solid Electrolyte Interphase in Lithium Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	96
30	Beaver-dam-like membrane: A robust and sulphifilic MgBO2(OH)/CNT/PP nest separator in Li-S batteries. Energy Storage Materials, 2017, 8, 153-160.	18.0	86
31	A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithiumâ€Sulfur Batteries. Angewandte Chemie - International Edition, 2017, 56, 16223-16227.	13.8	85
32	An Interconnected Channelâ€Like Framework as Host for Lithium Metal Composite Anodes. Advanced Energy Materials, 2019, 9, 1802720.	19.5	83
33	Composite lithium electrode with mesoscale skeleton via simple mechanical deformation. Science Advances, 2019, 5, eaau5655.	10.3	79
34	Engineering the surface of LiCoO2 electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. Nano Research, 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. ACS Central Science, 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. Nano Research, 2017, 10, 1213-1222.	10.4	73

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

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55	From Supramolecular Species to Selfâ€Templated Porous Carbon and Metalâ€Doped Carbon for Oxygen Reduction Reaction Catalysts. Angewandte Chemie, 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 Semiâ€Immobilized Redox Mediators in Working Batteries. Angewandte Chemie, 2020, 132, 17823-17828.	2.0	5
58	Lithiumâ€Sulfur Batteries: A Cooperative Interface for Highly Efficient Lithiumâ€“Sulfur Batteries (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 T	21.0	3
59	One-pot synthesis of triazine-framework derived catalysts with high performance for polymer electrolyte membrane fuel cells. RSC Advances, 2016, 6, 21617-21623.	3.6	2
60	Innentitelbild: Activating Inert Metallic Compounds for Highâ€Rate Lithiumâ€“Sulfur Batteries Through In Situ Etching of Extrinsic Metal (Angew. Chem. 12/2019). Angewandte Chemie, 2019, 131, 3692-3692.	2.0	1
61	RÃ¼cktitelbild: Electrochemical Phase Evolution of Metalâ€Based Preâ€Catalysts for Highâ€Rate Polysulfide Conversion (Angew. Chem. 23/2020). Angewandte Chemie, 2020, 132, 9278-9278.	2.0	1
62	InnenrÃ¼cktitelbild: A Supramolecular Capsule for Reversible Polysulfide Storage/Delivery in Lithiumâ€Sulfur Batteries (Angew. Chem. 51/2017). Angewandte Chemie, 2017, 129, 16635-16635.	2.0	0
63	A Supramolecular Electrolyte for Lithiumâ€Metal Batteries. Batteries and Supercaps, 2020, 3, 5-5.	4.7	0