Junjie Niu

List of Publications by Year
in descending order

27 papers	8,934 citations	623574 14 h-index	477173 29 g-index
30 all docs	30 docs citations	30 times ranked	10780 citing authors

#	Article	IF	Citations
1	Photocatalytic degradation of perfluoroalkyl substances in water by using a duo-functional tri-metallic-oxide hybrid catalyst. Chemosphere, 2022, 293, 133568.	4.2	7
2	Nickel-rich layered LiNi0.8Mn0.1Co0.1O2 with dual gradients on both primary and secondary particles in lithium-ion batteries. Cell Reports Physical Science, 2022, 3, 100767.	2.8	13
3	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via In Situ Electron Microscopy. Nano Letters, 2021, 21, 151-157.	4.5	36
4	Novel Regenerative Hybrid Composite Adsorbent with Improved Removal Capacity for Lead Ions in Water. Industrial & Engineering Chemistry Research, 2021, 60, 5124-5132.	1.8	11
5	Interpenetrating Network-Based Hybrid Solid and Gel Electrolytes for High Voltage Lithium Metal Batteries. ACS Applied Energy Materials, 2021, 4, 5639-5648.	2.5	11
6	Pre-Solid Electrolyte Interphase-Covered Li Metal Anode with Improved Electro-Chemo-Mechanical Reliability in High-Energy-Density Batteries. ACS Applied Materials & Interfaces, 2021, 13, 34064-34073.	4.0	8
7	An artificial sea urchin with hollow spines: improved mechanical and electrochemical stability in high-capacity Liâ€“Ge batteries. Nanoscale, 2020, 12, 5812-5816.	2.8	4
8	Designing Comb-Chain Crosslinker-Based Solid Polymer Electrolytes for Additive-Free All-Solid-State Lithium Metal Batteries. Nano Letters, 2020, 20, 6914-6921.	4.5	35
9	Robust Hybrid Hydrophilic Coating on a High-Density Polyethylene Surface with Enhanced Mechanical Property. ACS Applied Materials & Interfaces, 2020, 12, 32017-32022.	4.0	10
10	Inter-layer-calated Thin Li Metal Electrode with Improved Battery Capacity Retention and Dendrite Suppression. Nano Letters, 2020, 20, 2639-2646.	4.5	60
11	A Fast Charge/Discharge and Wide-Temperature Battery with a Germanium Oxide Layer on a Ti₃C₂ MXene Matrix as Anode. ACS Nano, 2020, 14, 3678-3686.	7.3	74
12	Improved antibacterial performance using hydrogel-immobilized lysozyme as a catalyst in water. RSC Advances, 2019, 9, 20169-20173.	1.7	12
13	Double-Net Enclosed Sulfur Composite as a New Cathode in Lithium Sulfur Batteries. Journal of Physical Chemistry C, 2019, 123, 17719-17727.	1.5	6
14	Largely Improved Battery Performance Using a Microsized Silicon Skeleton Caged by Polypyrrole as Anode. ACS Nano, 2019, 13, 12032-12041.	7.3	64
15	An all-in-one Snâ€“Co alloy as a binder-free anode for high-capacity batteries and its dynamic lithiation in situ. Chemical Communications, 2019, 55, 529-532.	2.2	9
16	Ironing Controllable Lithium into Lithiotropic Carbon Fiber Fabric: A Novel Li-Metal Anode with Improved Cyclability and Dendrite Suppression. ACS Applied Materials & Interfaces, 2019, 11, 21584-21592.	4.0	14
17	Acoustic Bubble Suppression by Constructing a Hydrophilic Coating on HDPE Surface. ACS Applied Materials & Interfaces, 2019, 11, 16944-16950.	4.0	10
18	A bee pupa-infilled honeycomb structure-inspired Li₂MnSiO₄ cathode for high volumetric energy density secondary batteries. Chemical Communications, 2019, 55, 3582-3585.	2.2	4

#	Article	IF	Citations
19	A novel wheel-confined composite as cathode in Li-S batteries with high capacity retention. Journal of Alloys and Compounds, 2019, 776, 504-510.	2.8	11
20	Strong Hydrophobic Coating by Conducting a New Hierarchical Architecture. Journal of Physical Chemistry C, 2018, 122, 4628-4634.	1.5	6
21	Dynamic charge acceptance and hydrogen evolution of a new MXene additive in advanced lead-acid batteriesviaa rapid screening three-electrode method. Chemical Communications, 2018, 54, 3456-3459.	2.2	14
22	Sn Wears Super Skin: A New Design for Long Cycling Batteries. Nano Letters, 2018, 18, 467-474.	4.5	67
23	Low Interface Energies Tune the Electrochemical Reversibility of Tin Oxide Composite Nanoframes as Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2018, 10, 36892-36901.	4.0	19
24	High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. Nano Letters, 2016, 16, 4501-4507.	4.5	62
25	In Situ Observation of Random Solid Solution Zone in LiFePO₄ Electrode. Nano Letters, 2014, 14, 4005-4010.	4.5	104
26	Scalable synthesis of a sulfur nanosponge cathode for a lithiumâ€“sulfur battery with improved cyclability. Journal of Materials Chemistry A, 2014, 2, 19788-19796.	5.2	12
27	Twoâ€Ðimensional Nanocrystals Produced by Exfoliation of Ti₃AlC₂. Advanced Materials, 2011, 23, 4248-4253.	11.1	7,931