

# Junjie Niu

## List of Publications by Year in descending order

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27  
papers

8,934  
citations

623188

14  
h-index

476904

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

10780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Nanocrystals Produced by Exfoliation of $\text{Ti}_3\text{AlC}_2$ . <i>Advanced Materials</i> , 2011, 23, 4248-4253.	11.1	7,931
2	In Situ Observation of Random Solid Solution Zone in $\text{LiFePO}_4$ Electrode. <i>Nano Letters</i> , 2014, 14, 4005-4010.	4.5	104
3	A Fast Charge/Discharge and Wide-Temperature Battery with a Germanium Oxide Layer on a $\text{Ti}_3\text{C}_2$ MXene Matrix as Anode. <i>ACS Nano</i> , 2020, 14, 3678-3686.	7.3	74
4	Sn Wears Super Skin: A New Design for Long Cycling Batteries. <i>Nano Letters</i> , 2018, 18, 467-474.	4.5	67
5	Largely Improved Battery Performance Using a Microsized Silicon Skeleton Caged by Polypyrrole as Anode. <i>ACS Nano</i> , 2019, 13, 12032-12041.	7.3	64
6	High Volumetric Capacity Three-Dimensionally Sphere-Caged Secondary Battery Anodes. <i>Nano Letters</i> , 2016, 16, 4501-4507.	4.5	62
7	Inter-layer-calated Thin Li Metal Electrode with Improved Battery Capacity Retention and Dendrite Suppression. <i>Nano Letters</i> , 2020, 20, 2639-2646.	4.5	60
8	Elucidating Interfacial Stability between Lithium Metal Anode and Li Phosphorus Oxynitride via <i>In Situ</i> Electron Microscopy. <i>Nano Letters</i> , 2021, 21, 151-157.	4.5	36
9	Designing Comb-Chain Crosslinker-Based Solid Polymer Electrolytes for Additive-Free All-Solid-State Lithium Metal Batteries. <i>Nano Letters</i> , 2020, 20, 6914-6921.	4.5	35
10	Low Interface Energies Tune the Electrochemical Reversibility of Tin Oxide Composite Nanoframes as Lithium-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36892-36901.	4.0	19
11	Dynamic charge acceptance and hydrogen evolution of a new MXene additive in advanced lead-acid batteries via a rapid screening three-electrode method. <i>Chemical Communications</i> , 2018, 54, 3456-3459.	2.2	14
12	Ironing Controllable Lithium into Lithiotropic Carbon Fiber Fabric: A Novel Li-Metal Anode with Improved Cyclability and Dendrite Suppression. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21584-21592.	4.0	14
13	Nickel-rich layered $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ with dual gradients on both primary and secondary particles in lithium-ion batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100767.	2.8	13
14	Scalable synthesis of a sulfur nanosponge cathode for a lithium-sulfur battery with improved cyclability. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19788-19796.	5.2	12
15	Improved antibacterial performance using hydrogel-immobilized lysozyme as a catalyst in water. <i>RSC Advances</i> , 2019, 9, 20169-20173.	1.7	12
16	A novel wheel-confined composite as cathode in Li-S batteries with high capacity retention. <i>Journal of Alloys and Compounds</i> , 2019, 776, 504-510.	2.8	11
17	Novel Regenerative Hybrid Composite Adsorbent with Improved Removal Capacity for Lead Ions in Water. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 5124-5132.	1.8	11
18	Interpenetrating Network-Based Hybrid Solid and Gel Electrolytes for High Voltage Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 5639-5648.	2.5	11

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19	Acoustic Bubble Suppression by Constructing a Hydrophilic Coating on HDPE Surface. ACS Applied Materials & Interfaces, 2019, 11, 16944-16950.	4.0	10
20	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
21	An all-in-one Sn-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
22	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
23	Photocatalytic degradation of perfluoroalkyl substances in water by using a duo-functional tri-metallic-oxide hybrid catalyst. Chemosphere, 2022, 293, 133568.	4.2	7
24	Strong Hydrophobic Coating by Conducting a New Hierarchical Architecture. Journal of Physical Chemistry C, 2018, 122, 4628-4634.	1.5	6
25	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
26	A bee pupa-infilled honeycomb structure-inspired $\text{Li}_{2}\text{MnSiO}_{4}$ cathode for high volumetric energy density secondary batteries. Chemical Communications, 2019, 55, 3582-3585.	2.2	4
27	An artificial sea urchin with hollow spines: improved mechanical and electrochemical stability in high-capacity Li-Ge batteries. Nanoscale, 2020, 12, 5812-5816.	2.8	4