

# Ruiyuan Tian

## List of Publications by Citations

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27  
papers

855  
citations

16  
h-index

29  
g-index

30  
ext. papers

1,097  
ext. citations

10.4  
avg, IF

4.28  
L-index

#	Paper	IF	Citations
27	High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , <b>2019</b> , 4, 560-567	62.3	153
26	Quantifying the factors limiting rate performance in battery electrodes. <i>Nature Communications</i> , <b>2019</b> , 10, 1933	17.4	114
25	High-Temperature Treatment of Li-Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700708	21.8	102
24	Structure, Optical, and Catalytic Properties of Novel Hexagonal Metastable h-MoO <sub>3</sub> Nano- and Microrods Synthesized with Modified Liquid-Phase Processes. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6202-6208	8.6	83
23	Drastically Enhanced High-Rate Performance of Carbon-Coated LiFePO <sub>4</sub> Nanorods Using a Green Chemical Vapor Deposition (CVD) Method for Lithium Ion Battery: A Selective Carbon Coating Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11377-86	9.5	51
22	On the drastically improved performance of Fe - doped LiMn <sub>2</sub> O <sub>4</sub> nanoparticles prepared by a facile solution - gelation route. <i>Electrochimica Acta</i> , <b>2015</b> , 180, 138-146	6.7	43
21	The Rate Performance of Two-Dimensional Material-Based Battery Electrodes May Not Be as Good as Commonly Believed. <i>ACS Nano</i> , <b>2020</b> , 14, 3129-3140	16.7	36
20	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 2966-2974	6.1	34
19	Liquid phase exfoliation of MoO <sub>2</sub> nanosheets for lithium ion battery applications. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1560-1570	5.1	29
18	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901359	21.8	28
17	Solvent exfoliation stabilizes TiS nanosheets against oxidation, facilitating lithium storage applications. <i>Nanoscale</i> , <b>2019</b> , 11, 6206-6216	7.7	26
16	Enhanced capacity and lower mean charge voltage of Li-rich cathodes for lithium ion batteries resulting from low-temperature electrochemical activation. <i>RSC Advances</i> , <b>2017</b> , 7, 7116-7121	3.7	22
15	Synthesis and characterization of oriented linked LiFePO <sub>4</sub> nanoparticles with fast electron and ion transport for high-power lithium-ion batteries. <i>Nano Research</i> , <b>2015</b> , 8, 3803-3814	10	21
14	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. <i>ACS Nano</i> , <b>2020</b> , 14, 13418-13432	16.7	20
13	Liquid phase exfoliation of GeS nanosheets in ambient conditions for lithium ion battery applications. <i>2D Materials</i> , <b>2020</b> , 7, 035015	5.9	18
12	Liquid Exfoliated SnP <sub>3</sub> Nanosheets for Very High Areal Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002364	21.8	17
11	Very high power and superior rate capability LiFePO <sub>4</sub> nanorods hydrothermally synthesized using tetraglycol as surfactant. <i>RSC Advances</i> , <b>2015</b> , 5, 1859-1866	3.7	13

10	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. <i>Journal of Power Sources</i> , <b>2020</b> , 468, 228220	8.9	9
9	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10154-10163	6.1	8
8	Developing models to fit capacity-rate data in battery systems. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 21, 1-6	7.2	7
7	Formation, structure and electrochemical performance of nano-sized Li <sub>2</sub> FeSiO <sub>4</sub> /C synthesized with the co-incorporation of citric acid and glucose followed by a two-step annealing. <i>RSC Advances</i> , <b>2014</b> , 4, 64702-64710	3.7	4
6	2D nanosheets from fool's gold by LPE: High performance lithium-ion battery anodes made from stone. <i>FlatChem</i> , <b>2021</b> , 30, 100295	5.1	4
5	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF <sub>3</sub> ) into 2D-platelets for high-capacity lithium storing cathodes. <i>FlatChem</i> , <b>2022</b> , 33, 100360	5.1	4
4	Quantifying the Effect of Separator Thickness on Rate Performance in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 030503	3.9	3
3	Effect of the Gate Volume on the Performance of Printed Nanosheet Network-Based Transistors. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 2164-2170	4	2
2	High Charge and Discharge Rate Limitations in Ordered Macroporous Li-ion Battery Materials. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 140532	3.9	2
1	Recent Advances in Aqueous Batteries with Nonmetal Cations as Charge Carriers. <i>Advanced Energy and Sustainability Research</i> , 2100207	1.6	0