

Ruiyuan Tian

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Quantifying the Effect of Separator Thickness on Rate Performance in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 030503	3.9	3
26	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF ₃) into 2D-platelets for high-capacity lithium storing cathodes. <i>FlatChem</i> , 2022 , 33, 100360	5.1	4
25	2D nanosheets from fool's gold by LPE: High performance lithium-ion battery anodes made from stone. <i>FlatChem</i> , 2021 , 30, 100295	5.1	4
24	Liquid Exfoliated SnP ₃ Nanosheets for Very High Areal Capacity Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002364	21.8	17
23	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. <i>Journal of Power Sources</i> , 2020 , 468, 228220	8.9	9
22	Effect of the Gate Volume on the Performance of Printed Nanosheet Network-Based Transistors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2164-2170	4	2
21	The Rate Performance of Two-Dimensional Material-Based Battery Electrodes May Not Be as Good as Commonly Believed. <i>ACS Nano</i> , 2020 , 14, 3129-3140	16.7	36
20	High Charge and Discharge Rate Limitations in Ordered Macroporous Li-ion Battery Materials. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 140532	3.9	2
19	Developing models to fit capacity-rate data in battery systems. <i>Current Opinion in Electrochemistry</i> , 2020 , 21, 1-6	7.2	7
18	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10154-10163	6.1	8
17	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2966-2974	6.1	34
16	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. <i>ACS Nano</i> , 2020 , 14, 13418-13432	16.7	20
15	Liquid phase exfoliation of GeS nanosheets in ambient conditions for lithium ion battery applications. <i>2D Materials</i> , 2020 , 7, 035015	5.9	18
14	High areal capacity battery electrodes enabled by segregated nanotube networks. <i>Nature Energy</i> , 2019 , 4, 560-567	62.3	153
13	Quantifying the factors limiting rate-performance in battery electrodes. <i>Nature Communications</i> , 2019 , 10, 1933	17.4	114
12	Solvent exfoliation stabilizes TiS nanosheets against oxidation, facilitating lithium storage applications. <i>Nanoscale</i> , 2019 , 11, 6206-6216	7.7	26
11	Liquid phase exfoliation of MoO ₂ nanosheets for lithium ion battery applications. <i>Nanoscale Advances</i> , 2019 , 1, 1560-1570	5.1	29

10	Quantifying the Trade-Off between Absolute Capacity and Rate Performance in Battery Electrodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1901359	21.8	28
9	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> , 2017 , 7, 7116-7121	3.7	22
8	High-Temperature Treatment of Li-Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. <i>Advanced Energy Materials</i> , 2017 , 7, 1700708	21.8	102
7	Drastically Enhanced High-Rate Performance of Carbon-Coated LiFePO ₄ Nanorods Using a Green Chemical Vapor Deposition (CVD) Method For Lithium Ion Battery: A Selective Carbon Coating Process. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11377-86	9.5	51
6	On the drastically improved performance of Fe - doped LiMn ₂ O ₄ nanoparticles prepared by a facile solution - gelation route. <i>Electrochimica Acta</i> , 2015 , 180, 138-146	6.7	43
5	Synthesis and characterization of oriented linked LiFePO ₄ nanoparticles with fast electron and ion transport for high-power lithium-ion batteries. <i>Nano Research</i> , 2015 , 8, 3803-3814	10	21
4	Very high power and superior rate capability LiFePO ₄ nanorods hydrothermally synthesized using tetraglycol as surfactant. <i>RSC Advances</i> , 2015 , 5, 1859-1866	3.7	13
3	Formation, structure and electrochemical performance of nano-sized Li ₂ FeSiO ₄ /C synthesized with the co-incorporation of citric acid and glucose followed by a two-step annealing. <i>RSC Advances</i> , 2014 , 4, 64702-64710	3.7	4
2	Structure, Optical, and Catalytic Properties of Novel Hexagonal Metastable h-MoO ₃ Nano- and Microrods Synthesized with Modified Liquid-Phase Processes. <i>Chemistry of Materials</i> , 2010 , 22, 6202-6208	9.6	83
1	Recent Advances in Aqueous Batteries with Nonmetal Cations as Charge Carriers. <i>Advanced Energy and Sustainability Research</i> , 2100207	1.6	0