Ruiyuan Tian

List of Publications by Year
in descending order

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29 papers	1,374 citations	516215 16 h-index	476904 29 g-index
30 all docs	30 docs citations	30 times ranked	1954 citing authors

#	Article	IF	Citations
1	High areal capacity battery electrodes enabled by segregated nanotube networks. Nature Energy, 2019, 4, 560-567.	19.8	281
2	Quantifying the factors limiting rateÂperformance in battery electrodes. Nature Communications, 2019, 10, 1933.	5.8	185
3	Highâ€Temperature Treatment of Liâ€Rich Cathode Materials with Ammonia: Improved Capacity and Mean Voltage Stability during Cycling. Advanced Energy Materials, 2017, 7, 1700708.	10.2	139
4	Structure, Optical, and Catalytic Properties of Novel Hexagonal Metastable h-MoO₃ Nano- and Microrods Synthesized with Modified Liquid-Phase Processes. Chemistry of Materials, 2010, 22, 6202-6208.	3.2	99
5	Quantifying the Effect of Electronic Conductivity on the Rate Performance of Nanocomposite Battery Electrodes. ACS Applied Energy Materials, 2020, 3, 2966-2974.	2.5	75
6	Drastically Enhanced High-Rate Performance of Carbon-Coated LiFePO₄Nanorods Using a Green Chemical Vapor Deposition (CVD) Method for Lithium Ion Battery: A Selective Carbon Coating Process. ACS Applied Materials & Interfaces, 2015, 7, 11377-11386.	4.0	65
7	On the drastically improved performance of Fe - doped LiMn2O4 nanoparticles prepared by a facile solution - gelation route. Electrochimica Acta, 2015, 180, 138-146.	2.6	58
8	The Rate Performance of Two-Dimensional Material-Based Battery Electrodes May Not Be as Good as Commonly Believed. ACS Nano, 2020, 14, 3129-3140.	7.3	58
9	Production of Quasi-2D Platelets of Nonlayered Iron Pyrite (FeS₂) by Liquid-Phase Exfoliation for High Performance Battery Electrodes. ACS Nano, 2020, 14, 13418-13432.	7.3	45
10	Solvent exfoliation stabilizes TiS₂ nanosheets against oxidation, facilitating lithium storage applications. Nanoscale, 2019, 11, 6206-6216.	2.8	44
11	Quantifying the Tradeâ€Off between Absolute Capacity and Rate Performance in Battery Electrodes. Advanced Energy Materials, 2019, 9, 1901359.	10.2	43
12	Liquid Exfoliated SnP₃ Nanosheets for Very High Areal Capacity Lithiumâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2002364.	10.2	40
13	Liquid phase exfoliation of MoO₂ nanosheets for lithium ion battery applications. Nanoscale Advances, 2019, 1, 1560-1570.	2.2	35
14	Synthesis and characterization of oriented linked LiFePO4 nanoparticles with fast electron and ion transport for high-power lithium-ion batteries. Nano Research, 2015, 8, 3803-3814.	5.8	25
15	Enhanced capacity and lower mean charge voltage of Li-rich cathodes for lithium ion batteries resulting from low-temperature electrochemical activation. RSC Advances, 2017, 7, 7116-7121.	1.7	25
16	Liquid phase exfoliation of GeS nanosheets in ambient conditions for lithium ion battery applications. 2D Materials, 2020, 7, 035015.	2.0	25
17	Quantifying the Effect of Separator Thickness on Rate Performance in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 030503.	1.3	17
18	Very high power and superior rate capability LiFePO₄nanorods hydrothermally synthesized using tetraglycol as surfactant. RSC Advances, 2015, 5, 1859-1866.	1.7	16

#	Article	IF	Citations
19	Quantifying the Dependence of Battery Rate Performance on Electrode Thickness. ACS Applied Energy Materials, 2020, 3, 10154-10163.	2.5	16
20	Using chronoamperometry to rapidly measure and quantitatively analyse rate-performance in battery electrodes. Journal of Power Sources, 2020, 468, 228220.	4.0	16
21	Cyclic production of biocompatible few-layer graphene ink with in-line shear-mixing for inkjet-printed electrodes and Li-ion energy storage. Npj 2D Materials and Applications, 2022, 6, .	3.9	15
22	Liquid phase exfoliation of nonlayered non-van der Waals iron trifluoride (FeF3) into 2D-platelets for high-capacity lithium storing cathodes. FlatChem, 2022, 33, 100360.	2.8	15
23	Developing models to fit capacityâ€“rate data in battery systems. Current Opinion in Electrochemistry, 2020, 21, 1-6.	2.5	10
24	Effect of the Gate Volume on the Performance of Printed Nanosheet Network-Based Transistors. ACS Applied Electronic Materials, 2020, 2, 2164-2170.	2.0	6
25	2D nanosheets from foolâ€™s gold by LPE: High performance lithium-ion battery anodes made from stone. FlatChem, 2021, 30, 100295.	2.8	6
26	Recent Advances in Aqueous Batteries with Nonmetal Cations as Charge Carriers. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	5
27	Formation, structure and electrochemical performance of nano-sized Li2FeSiO4/C synthesized with the co-incorporation of citric acid and glucose followed by a two-step annealing. RSC Advances, 2014, 4, 64702-64710.	1.7	4
28	High Charge and Discharge Rate Limitations in Ordered Macroporous Li-ion Battery Materials. Journal of the Electrochemical Society, 2020, 167, 140532.	1.3	3
29	In-situ electrochemical synthesis of high-performance S/VOx composite for aqueous zinc ion battery. Journal Physics D: Applied Physics, 0, , .	1.3	2