Christian Prehal

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/7493858/publications.pdf

Version: 2024-02-01

20 papers 1,063 citations

623574 14 h-index ⁷⁵²⁵⁷³
20
g-index

28 all docs 28 docs citations

times ranked

28

1602 citing authors

#	Article	IF	CITATIONS
1	lonophobicity of carbon sub-nanometer pores enables efficient desalination at high salinity. Cell Reports Physical Science, 2022, 3, 100689.	2.8	7
2	A Facile Oneâ€Pot Synthesis of Hierarchically Organized Carbon/TiO ₂ Monoliths with Ordered Mesopores. ChemPlusChem, 2021, 86, 275-283.	1.3	3
3	In situ small-angle X-ray scattering reveals solution phase discharge of Li–O ₂ batteries with weakly solvating electrolytes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
4	Mechanism of mediated alkali peroxide oxidation and triplet versus singlet oxygen formation. Nature Chemistry, 2021, 13, 465-471.	6.6	41
5	Current status and future perspectives of lithium metal batteries. Journal of Power Sources, 2020, 480, 228803.	4.0	109
6	Persistent and reversible solid iodine electrodeposition in nanoporous carbons. Nature Communications, 2020, 11, 4838.	5.8	52
7	Willow Bark for Sustainable Energy Storage Systems. Materials, 2020, 13, 1016.	1.3	9
8	Singlet oxygen from cation driven superoxide disproportionation and consequences for aprotic metal–O ₂ batteries. Energy and Environmental Science, 2019, 12, 2559-2568.	15.6	122
9	Towards Real-Time Ion-Specific Structural Sensitivity in Nanoporous Carbon Electrodes Using In Situ Anomalous Small-Angle X-ray Scattering. ACS Applied Materials & Diterfaces, 2019, 11, 42214-42220.	4.0	13
10	Comparing pore structure models of nanoporous carbons obtained from small angle X-ray scattering and gas adsorption. Carbon, 2019, 152, 416-423.	5.4	28
11	Li-O2 Cell-Scale Energy Densities. Joule, 2019, 3, 321-323.	11.7	7
12	Salt concentration and charging velocity determine ion charge storage mechanism in nanoporous supercapacitors. Nature Communications, 2018, 9, 4145.	5.8	85
13	In Situ Tracking of Partial Sodium Desolvation of Materials with Capacitive, Pseudocapacitive, and Battery-like Charge/Discharge Behavior in Aqueous Electrolytes. Langmuir, 2018, 34, 13132-13143.	1.6	20
14	Quantification of ion confinement and desolvation in nanoporous carbon supercapacitors with modelling and in situ X-ray scattering. Nature Energy, $2017, 2, .$	19.8	210
15	Microporous novolac-derived carbon beads/sulfur hybrid cathode for lithium-sulfur batteries. Journal of Power Sources, 2017, 357, 198-208.	4.0	33
16	Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage. Nano Energy, 2017, 40, 49-64.	8.2	101
17	In Situ Measurement of Electrosorption-Induced Deformation Reveals the Importance of Micropores in Hierarchical Carbons. ACS Applied Materials & Samp; Interfaces, 2017, 9, 23319-23324.	4.0	29
18	A carbon nanopore model to quantify structure and kinetics of ion electrosorption with in situ small-angle X-ray scattering. Physical Chemistry Chemical Physics, 2017, 19, 15549-15561.	1.3	39

#	Article	IF	CITATIONS
19	Tracking the structural arrangement of ions in carbon supercapacitor nanopores using in situ small-angle X-ray scattering. Energy and Environmental Science, 2015, 8, 1725-1735.	15.6	126
20	Electrical and photovoltaic properties of self-assembled Ge nanodomes on Si(001). Physical Review B, 2012, 86, .	1.1	11