

Shibabrata Basak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4469588/publications.pdf>

Version: 2024-02-01

30
papers

1,068
citations

623734

14
h-index

501196

28
g-index

31
all docs

31
docs citations

31
times ranked

1928
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Operando</i> transmission electron microscopy of battery cycling: thickness dependent breaking of TiO ₂ coating on Si/SiO ₂ nanoparticles. <i>Chemical Communications</i> , 2022, 58, 3130-3133.	4.1	2
2	Active Interphase Enables Stable Performance for an All-Phosphate-Based Composite Cathode in an All-Solid-State Battery. <i>Small</i> , 2022, 18, e2200266.	10.0	7
3	Improved Electrochemical Performance of Zinc Anodes by EDTA in Near-Neutral Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1830-1842.	4.7	10
4	Structural Study of Polyacrylonitrile-Based Carbon Nanofibers for Understanding Gas Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 46665-46670.	8.0	11
5	Nanostructuring Germanium Nanowires by In Situ TEM Ion Irradiation. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100154.	2.3	0
6	Accessing Lithium-Oxygen Battery Discharge Products in Their Native Environments via Transmission Electron Microscopy Grid Electrode. <i>ACS Applied Energy Materials</i> , 2020, 3, 9509-9515.	5.1	6
7	<i>In situ</i> electrochemistry inside a TEM with controlled mass transport. <i>Nanoscale</i> , 2020, 12, 22192-22201.	5.6	29
8	Operando Transmission Electron Microscopy Study of All-Solid-State Battery Interface: Redistribution of Lithium among Interconnected Particles. <i>ACS Applied Energy Materials</i> , 2020, 3, 5101-5106.	5.1	14
9	Designing Reliable Operando TEM Experiments to Study (De)lithiation Mechanism of Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3384-A3386.	2.9	2
10	Three-Dimensional Quantification of the Facet Evolution of Pt Nanoparticles in a Variable Gaseous Environment. <i>Nano Letters</i> , 2019, 19, 477-481.	9.1	93
11	Towards optimization of experimental parameters for studying Li-O ₂ battery discharge products in TEM using in situ EELS. <i>Ultramicroscopy</i> , 2018, 188, 52-58.	1.9	16
12	Magnetic Phase Transition in Spark-Produced Ternary LaFeSi Nanoalloys. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6073-6078.	8.0	29
13	Facile Synthesis toward the Optimal Structure-Conductivity Characteristics of the Argyrodite Li ₆ PS ₅ Cl Solid-State Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33296-33306.	8.0	158
14	A high-performance Li-ion anode from direct deposition of Si nanoparticles. <i>Nano Energy</i> , 2017, 38, 477-485.	16.0	67
15	Accessing the bottleneck in all-solid state batteries, lithium-ion transport over the solid-electrolyte-electrode interface. <i>Nature Communications</i> , 2017, 8, 1086.	12.8	299
16	Revealing the relation between the structure, Li-ion conductivity and solid-state battery performance of the argyrodite Li ₆ PS ₅ Br solid electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21178-21188.	10.3	76
17	3-D vertically aligned few layer graphene - partially reduced graphene oxide/sulfur electrodes for high performance lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1516-1523.	4.9	12
18	Reversible Na-ion Uptake in Si Nanoparticles. <i>Advanced Energy Materials</i> , 2016, 6, 1501436.	19.5	101

#	ARTICLE	IF	CITATIONS
19	<i>Operando</i> Nanobeam Diffraction to Follow the Decomposition of Individual Li_2O_2 Grains in a Nonaqueous Li^+O_2^- Battery. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3388-3394.	4.6	14
20	Use of Nano Seed Crystals To Control Peroxide Morphology in a Nonaqueous Li^+O_2^- Battery. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18421-18427.	3.1	21
21	Green manufacturing of metallic nanoparticles: a facile and universal approach to scaling up. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11222-11227.	10.3	29
22	Nano-Workbench: A Combined Hollow AFM Cantilever and Robotic Manipulator. <i>Micromachines</i> , 2015, 6, 600-610.	2.9	8
23	The hydrogen permeability of Pd-Cu based thin film membranes in relation to their structure: A combinatorial approach. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3932-3943.	7.1	16
24	Improving Reversible Capacities of High-Surface Lithium Insertion Materials – The Case of Amorphous TiO_2 . <i>Frontiers in Energy Research</i> , 2014, 2, .	2.3	7
25	Wet chemical growth of ultra-long ZnO nanoplates and their optical property. <i>Chemical Physics Letters</i> , 2013, 584, 155-158.	2.6	7
26	Electrochemical Growth of Hexagonal ZnO Pyramids and their Optical Property. <i>Materials Letters</i> , 2012, 83, 97-99.	2.6	11
27	SYNTHESIS AND CHARACTERIZATION OF CHEMICALLY GROWN ULTRALONG HEXAGONAL ZnO NANOTUBES. <i>International Journal of Nanoscience</i> , 2011, 10, 69-73.	0.7	15
28	Fern leaves. <i>Materials Today</i> , 2011, 14, 295.	14.2	4
29	Electrochemical Growth of ZnO Microspheres and Nanosheets. <i>Advanced Science Letters</i> , 2011, 4, 554-557.	0.2	3
30	Fabrication of intensity based fiber optic pH sensor. , 2010, , .		1