

Kaushik Kalaga

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9266851/publications.pdf>

Version: 2024-02-01

28
papers

1,805
citations

394421

19
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

3116
citing authors

#	ARTICLE	IF	CITATIONS
1	A materials perspective on Li-ion batteries at extreme temperatures. <i>Nature Energy</i> , 2017, 2, .	39.5	542
2	Quantifying lithium concentration gradients in the graphite electrode of Li-ion cells using <i>operando</i> energy dispersive X-ray diffraction. <i>Energy and Environmental Science</i> , 2019, 12, 656-665.	30.8	126
3	Operando Quantification of (De)Lithiation Behavior of Silicon-Graphite Blended Electrodes for Lithium-ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803380.	19.5	117
4	Hexagonal Boron Nitride-Based Electrolyte Composite for Li-ion Battery Operation from Room Temperature to 150 °C. <i>Advanced Energy Materials</i> , 2016, 6, 1600218.	19.5	112
5	3D Nanostructured Molybdenum Diselenide/Graphene Foam as Anodes for Long-Cycle Life Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2015, 176, 103-111.	5.2	107
6	A flexible solar cell/supercapacitor integrated energy device. <i>Nano Energy</i> , 2017, 42, 181-186.	16.0	92
7	Field Emission with Ultralow Turn On Voltage from Metal Decorated Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 7763-7770.	14.6	90
8	Fast Charging of Li-Ion Cells: Part I. Using Li/Cu Reference Electrodes to Probe Individual Electrode Potentials. <i>Journal of the Electrochemical Society</i> , 2019, 166, A996-A1003.	2.9	79
9	Calendar-life versus cycle-life aging of lithium-ion cells with silicon-graphite composite electrodes. <i>Electrochimica Acta</i> , 2018, 280, 221-228.	5.2	67
10	Facile Synthesis of 3D Anode Assembly with Si Nanoparticles Sealed in Highly Pure Few Layer Graphene Deposited on Porous Current Collector for Long Life Li-ion Battery. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601043.	3.7	65
11	Enhanced Field Emission Properties from CNT Arrays Synthesized on Inconel Superalloy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1986-1991.	8.0	57
12	Graphene as an atomically thin interface for growth of vertically aligned carbon nanotubes. <i>Scientific Reports</i> , 2013, 3, 1891.	3.3	54
13	Quasi-Solid Electrolytes for High Temperature Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25777-25783.	8.0	54
14	Anode-Dependent Impedance Rise in Layered-Oxide Cathodes of Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1697-A1705.	2.9	40
15	Apparent Increasing Lithium Diffusion Coefficient with Applied Current in Graphite. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120528.	2.9	34
16	Lithium Acetylide: A Spectroscopic Marker for Lithium Deposition During Fast Charging of Li-Ion Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 873-881.	5.1	32
17	Curious Case of Positive Current Collectors: Corrosion and Passivation at High Temperature. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43623-43631.	8.0	25
18	Doping stabilized Li ₃ V ₂ (PO ₄) ₃ cathode for high voltage, temperature enduring Li-ion batteries. <i>Journal of Power Sources</i> , 2018, 390, 100-107.	7.8	23

#	ARTICLE	IF	CITATIONS
19	Auger Electrons as Probes for Composite Micro- and Nanostructured Materials: Application to Solid Electrolyte Interphases in Graphite and Silicon-Graphite Electrodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23333-23346.	3.1	20
20	Dehydration Rather Than HF Capture Explains Performance Improvements of Li-Ion Cells by Ceramic Nanoparticles. <i>ACS Applied Energy Materials</i> , 2019, 2, 5380-5385.	5.1	19
21	Insights on the cycling behavior of a highly-prelithiated silicon-graphite electrode in lithium-ion cells. <i>JPhys Energy</i> , 2020, 2, 024002.	5.3	18
22	2D material integrated macroporous electrodes for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 32737-32742.	3.6	12
23	Coulombic inefficiency of graphite anode at high temperature. <i>Electrochimica Acta</i> , 2018, 285, 1-8.	5.2	6
24	Insights from incorporating reference electrodes in symmetric lithium-ion cells with layered oxide or graphite electrodes. <i>Journal of Power Sources</i> , 2019, 438, 227033.	7.8	4
25	Carbon Nanotube Membrane Filters. , 2013, , 1099-1116.		4
26	Phase Transformations During Li-Insertion into V2O5 at Elevated Temperature. <i>Jom</i> , 2017, 69, 1509-1512.	1.9	3
27	One Step Process for Infiltration of Magnetic Nanoparticles into CNT Arrays for Enhanced Field Emission. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701631.	3.7	2
28	In Situ Lithiated Reference Electrode: Four Electrode Design for In-operando Impedance Spectroscopy. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1