

Kaushik Kalaga

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,805
citations

394421

19
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526287

27
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28
all docs

28
docs citations

28
times ranked

3116
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | Apparent Increasing Lithium Diffusion Coefficient with Applied Current in Graphite. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120528. | 2.9 | 34 |
| 3 | 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 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | 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 |
| 8 | 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 |
| 9 | In Situ Lithiated Reference Electrode: Four Electrode Design for In-operando Impedance Spectroscopy. <i>Journal of Visualized Experiments</i> , 2018, , . | 0.3 | 1 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Coulombic inefficiency of graphite anode at high temperature. <i>Electrochimica Acta</i> , 2018, 285, 1-8. | 5.2 | 6 |
| 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 | 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 |
| 16 | A flexible solar cell/supercapacitor integrated energy device. <i>Nano Energy</i> , 2017, 42, 181-186. | 16.0 | 92 |
| 17 | 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 |
| 18 | 2D material integrated macroporous electrodes for Li-ion batteries. <i>RSC Advances</i> , 2017, 7, 32737-32742. | 3.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A materials perspective on Li-ion batteries at extreme temperatures. <i>Nature Energy</i> , 2017, 2, . | 39.5 | 542 |
| 20 | 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 |
| 21 | Phase Transformations During Li-Insertion into V2O5 at Elevated Temperature. <i>Jom</i> , 2017, 69, 1509-1512. | 1.9 | 3 |
| 22 | 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 |
| 23 | 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 |
| 24 | Quasi-Solid Electrolytes for High Temperature Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25777-25783. | 8.0 | 54 |
| 25 | Enhanced Field Emission Properties from CNT Arrays Synthesized on Inconel Superalloy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1986-1991. | 8.0 | 57 |
| 26 | Field Emission with Ultralow Turn On Voltage from Metal Decorated Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 7763-7770. | 14.6 | 90 |
| 27 | Graphene as an atomically thin interface for growth of vertically aligned carbon nanotubes. <i>Scientific Reports</i> , 2013, 3, 1891. | 3.3 | 54 |
| 28 | Carbon Nanotube Membrane Filters. , 2013, , 1099-1116. | | 4 |