

# Mukul Parmananda

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11961615/publications.pdf>

Version: 2024-02-01

14  
papers

207  
citations

1040056

9  
h-index

1058476

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14  
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docs citations

14  
times ranked

166  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanistic underpinnings of thermal gradient induced inhomogeneity in lithium plating. <i>Energy Storage Materials</i> , 2021, 35, 500-511.	18.0	41
2	Effect of electrode crosstalk on heat release in lithium-ion batteries under thermal abuse scenarios. <i>Energy Storage Materials</i> , 2022, 44, 326-341.	18.0	32
3	Probing the Thermal Safety of Li Metal Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 120513.	2.9	31
4	Mechanistic Analysis of Microstructural Attributes to Lithium Plating in Fast Charging. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55795-55808.	8.0	19
5	Critical assessment of numerical algorithms for convective-radiative heat transfer in enclosures with different geometries. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 627-644.	4.8	18
6	Probing the Role of Multi-scale Heterogeneity in Graphite Electrodes for Extreme Fast Charging. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18335-18352.	8.0	15
7	The influence of partitions on predicting heat transfer due to the combined effects of convection and thermal radiation in cubical enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 1179-1200.	4.8	13
8	Thermo-Electrochemical Stability Analytics of Electrode Materials. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30106-30120.	3.1	11
9	Probing the Influence of Multiscale Heterogeneity on Effective Properties of Graphite Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 943-953.	8.0	11
10	Unified framework for buoyancy induced radiative-convective flow and heat transfer on hybrid unstructured meshes. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 908-925.	4.8	7
11	Investigations of turbulence-radiation interaction in non-Oberbeck-Boussinesq buoyancy-driven flows. <i>International Journal of Thermal Sciences</i> , 2018, 134, 298-316.	4.9	4
12	Numerical appraisal of three low Mach number algorithms for radiative-convective flows in enclosures. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2162-2181.	2.7	2
13	Simplified Pouch Cell Method for 3-Electrode Re-Testing of Harvested Double-Sided Electrodes From Commercial Lithium-Ion Batteries. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2021, 18, .	2.1	2
14	From material properties to multiscale modeling to improve lithium-ion energy storage safety. <i>MRS Bulletin</i> , 2021, 46, 402-409.	3.5	1