

Manik Mayur

List of Publications by Year in descending order

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papers

340
citations

1163117

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all docs

13
docs citations

13
times ranked

434
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance and degradation of Proton Exchange Membrane Fuel Cells: State of the art in modeling from atomistic to system scale. <i>Journal of Power Sources</i> , 2016, 304, 207-233.	7.8	180
2	A multi-timescale modeling methodology for PEMFC performance and durability in a virtual fuel cell car. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16466-16476.	7.1	44
3	Lifetime Prediction of a Polymer Electrolyte Membrane Fuel Cell under Automotive Load Cycling Using a Physically-Based Catalyst Degradation Model. <i>Energies</i> , 2018, 11, 2054.	3.1	40
4	Free-surface instability in electro-osmotic flows of ultrathin liquid films. <i>Physical Review E</i> , 2012, 85, 046301.	2.1	15
5	Modeling and simulation of the thermodynamics of lithium-ion battery intercalation materials in the open-source software Cantera. <i>Electrochimica Acta</i> , 2019, 323, 134797.	5.2	14
6	Identification of stoichiometric and microstructural parameters of a lithium-ion cell with blend electrode. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23672-23684.	2.8	10
7	Effect of interfacial Maxwell stress on time periodic electro-osmotic flow in a thin liquid film with a flat interface. <i>Electrophoresis</i> , 2014, 35, 670-680.	2.4	8
8	Electrokinetic instability of liquid micro- and nanofilms with a mobile charge. <i>Physics of Fluids</i> , 2015, 27, .	4.0	8
9	Surface-charge-induced alteration of nanovortex patterning in nanoscale confinements with patterned wettability gradients. <i>Physical Review E</i> , 2012, 85, 016315.	2.1	7
10	Maxwell stress-induced flow control of a free surface electro-osmotic flow in a rectangular microchannel. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 721-728.	2.2	6
11	Two-Dimensional Computational Fluid Dynamics Analysis of Transport Limitations of Different Electrolyte Systems in a Lithium-Air Button Cell Cathode. <i>Journal of the Electrochemical Society</i> , 2017, 164, E3489-E3498.	2.9	4
12	Long-wave interface instabilities of a two-liquid DC electroosmotic system for thin films. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 813-827.	2.2	3
13	Maxwell stress generated long wave instabilities in a thin aqueous film under time-dependent electro-osmotic flow. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	1