

Rupak Banerjee

List of Publications by Year in descending order

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papers

820
citations

471509

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all docs

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docs citations

29
times ranked

775
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Carbon Felt Electrodes for Vanadium Redox Flow Batteries: Impact of Treatment Methods. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2577-A2586.	2.9	82
2	Carbon felt electrodes for redox flow battery: Impact of compression on transport properties. <i>Journal of Energy Storage</i> , 2019, 26, 100997.	8.1	62
3	Non-isothermal two-phase transport in a polymer electrolyte membrane fuel cell with crack-free microporous layers. <i>International Journal of Heat and Mass Transfer</i> , 2017, 107, 418-431.	4.8	60
4	Two-phase flow in GDL and reactant channels of a proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 6620-6636.	7.1	58
5	Liquid water quantification in the cathode side gas channels of a proton exchange membrane fuel cell through two-phase flow visualization. <i>Journal of Power Sources</i> , 2014, 247, 9-19.	7.8	50
6	Visualization of electrolyte flow in vanadium redox flow batteries using synchrotron X-ray radiography and tomography – Impact of electrolyte species and electrode compression. <i>Journal of Power Sources</i> , 2019, 439, 227071.	7.8	43
7	Two-phase flow and thermal transients in proton exchange membrane fuel cells – A critical review. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 3990-4010.	7.1	42
8	Accelerated Degradation of Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layers. <i>Journal of the Electrochemical Society</i> , 2017, 164, F704-F713.	2.9	42
9	Hydrophilic microporous layer coatings for polymer electrolyte membrane fuel cells operating without anode humidification. <i>Journal of Power Sources</i> , 2018, 402, 468-482.	7.8	42
10	Experimental validation of two-phase pressure drop multiplier as a diagnostic tool for characterizing PEM fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17791-17801.	7.1	41
11	Liquid water saturation and oxygen transport resistance in polymer electrolyte membrane fuel cell gas diffusion layers. <i>Electrochimica Acta</i> , 2018, 274, 250-265.	5.2	40
12	Simultaneous characterization of oxygen transport resistance and spatially resolved liquid water saturation at high-current density of polymer electrolyte membrane fuel cells with varied cathode relative humidity. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29472-29483.	7.1	38
13	Transient Liquid Water Distributions in Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layers Observed through In-Operando Synchrotron X-ray Radiography. <i>Journal of the Electrochemical Society</i> , 2017, 164, F154-F162.	2.9	35
14	Accelerated Degradation of Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layers. <i>Journal of the Electrochemical Society</i> , 2017, 164, F714-F721.	2.9	30
15	Microporous Layer Degradation in Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, F3271-F3280.	2.9	30
16	Graded Microporous Layers for Enhanced Capillary-Driven Liquid Water Removal in Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901157.	3.7	24
17	Experimental investigation of two-phase flow pressure drop transients in polymer electrolyte membrane fuel cell reactant channels and their impact on the cell performance. <i>Journal of Power Sources</i> , 2014, 268, 194-203.	7.8	21
18	Porous Transport Layer Related Mass Transport Losses in Polymer Electrolyte Membrane Electrolysis: A Review. , 2016, , .		19

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19	Two-phase pressure drop response during load transients in a PEMFC. International Journal of Hydrogen Energy, 2014, 39, 19079-19086.	7.1	13
20	A unit-cell approach for determining the effective thermal conductivity of the polymer electrolyte membrane fuel cell microporous layer. International Journal of Heat and Mass Transfer, 2015, 89, 809-816.	4.8	12
21	Effect of Temperature on In-Plane Permeability of the Gas Diffusion Layer of PEM Fuel Cell. ECS Transactions, 2011, 41, 489-497.	0.5	10
22	Modeling Two-Phase Pressure Drop along PEM Fuel Cell Reactant Channels. Journal of the Electrochemical Society, 2015, 162, F772-F782.	2.9	9
23	Composition analysis of a polymer electrolyte membrane fuel cell microporous layer using scanning transmission X-ray microscopy and near edge X-ray absorption fine structure analysis. Journal of Power Sources, 2016, 309, 254-259.	7.8	7
24	Modeling the Effect of Fibre Surface Morphology on Liquid Water Transport in Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layers. Transport in Porous Media, 2018, 121, 437-458.	2.6	5
25	Considering Photon Scattering and Harmonics for Synchrotron X-ray Radiographic Imaging of Polymer Electrolyte Membrane Fuel Cells. Journal of the Electrochemical Society, 2017, 164, E3215-E3224.	2.9	4
26	Hydrophilic Microporous Layer Coatings for Polymer Electrolyte Membrane Fuel Cells. , 0, , .		1
27	Two-Phase Pressure Drop Characteristics During Low Temperature Transients in PEMFCs. , 2014, , .		0
28	Investigating the Structure of the Bi-Layered Gas Diffusion Layer Using X-Ray Computed Tomography. , 2016, , .		0
29	Transient Changes in Liquid Water Distribution in Polymer Electrolyte Membrane Fuel Cells. , 0, , .		0