

Pranay Shrestha

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Novel electrospun gas diffusion layers for polymer electrolyte membrane fuel cells: Part II. In operando synchrotron imaging for microscale liquid water transport characterization. <i>Journal of Power Sources</i> , 2017, 352, 281-290.	7.8	48
2	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
3	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
4	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
5	Multiwall Carbon Nanotube-Based Microporous Layers for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1149-F1157.	2.9	36
6	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
7	Membrane dehydration with increasing current density at high inlet gas relative humidity in polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2019, 422, 163-174.	7.8	35
8	Designing Tailored Gas Diffusion Layers with Pore Size Gradients via Electrospinning for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 2695-2707.	5.1	31
9	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
10	Microporous Layer Degradation in Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, F3271-F3280.	2.9	30
11	Polytetrafluoroethylene content in standalone microporous layers: Tradeoff between membrane hydration and mass transport losses in polymer electrolyte membrane fuel cells. <i>Applied Energy</i> , 2019, 240, 549-560.	10.1	27
12	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
13	Identifying in operando changes in membrane hydration in polymer electrolyte membrane fuel cells using synchrotron X-ray radiography. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9757-9769.	7.1	20
14	Tailoring catalyst layer interface with titanium mesh porous transport layers. <i>Electrochimica Acta</i> , 2021, 373, 137879.	5.2	20
15	Formation of Liquid Water Pathways in PEM Fuel Cells: A 3-D Pore-Scale Perspective. <i>Journal of the Electrochemical Society</i> , 2020, 167, 054516.	2.9	14
16	Unstable Cathode Potential in Alkaline Flow Cells for CO ₂ Electroreduction Driven by Gas Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5570-5579.	6.7	14
17	Resolving the gas diffusion layer substrate land and channel region contributions to the oxygen transport resistance of a partially-saturated substrate. <i>Electrochimica Acta</i> , 2019, 328, 135001.	5.2	10
18	Degradation Characteristics of Electrospun Gas Diffusion Layers with Custom Pore Structures for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2414-2427.	8.0	8

#	ARTICLE	IF	CITATIONS
19	Detecting cathode corrosion in polymer electrolyte membrane fuel cells in dead-ended anode mode via alternating current impedance. <i>Journal of Power Sources</i> , 2019, 439, 227089.	7.8	7
20	Temperature enhances the ohmic and mass transport behaviour in membrane electrode assembly carbon dioxide electrolyzers. <i>Energy Conversion and Management</i> , 2021, 243, 114302.	9.2	7
21	Accelerated Degradation of Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layers: Performance Degradation and Steady State Liquid Water Distributions with in Operando Synchrotron X-ray Radiography. <i>ECS Transactions</i> , 2016, 75, 289-300.	0.5	3
22	Pore-Scale Liquid Water Visualization for Understanding Water Transport in Operating Fuel Cells. <i>ECS Transactions</i> , 2019, 92, 61-69.	0.5	2
23	Performance Benefits of Multiwall Carbon Nanotubes in the Polymer Electrolyte Membrane Fuel Cell Gas Diffusion Layer. <i>ECS Transactions</i> , 2016, 75, 237-244.	0.5	1
24	Hydrophilic Microporous Layer Coatings for Polymer Electrolyte Membrane Fuel Cells. , 0, , .		1
25	Packing Heat: Energy Storage Using Phase Change Materials. <i>The Arbutus Review</i> , 2013, 4, 97-107.	0.1	0