

Dustin Banham

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

3,869
citations

394421

19
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

5645
citing authors

#	ARTICLE	IF	CITATIONS
1	Batteries and fuel cells for emerging electric vehicle markets. <i>Nature Energy</i> , 2018, 3, 279-289.	39.5	1,944
2	A review of the stability and durability of non-precious metal catalysts for the oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2015, 285, 334-348.	7.8	457
3	Current Status and Future Development of Catalyst Materials and Catalyst Layers for Proton Exchange Membrane Fuel Cells: An Industrial Perspective. <i>ACS Energy Letters</i> , 2017, 2, 629-638.	17.4	443
4	Critical advancements in achieving high power and stable nonprecious metal catalystâ€‘based MEAs for real-world proton exchange membrane fuel cell applications. <i>Science Advances</i> , 2018, 4, eaar7180.	10.3	189
5	Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. <i>Energy and Environmental Science</i> , 2017, 10, 296-305.	30.8	127
6	Integrating PGMâ€‘Free Catalysts into Catalyst Layers and Proton Exchange Membrane Fuel Cell Devices. <i>Advanced Materials</i> , 2019, 31, e1804846.	21.0	121
7	Multiscale tomography of nanoporous carbon-supported noble metal catalyst layers. <i>Journal of Power Sources</i> , 2013, 228, 185-192.	7.8	70
8	Accelerated Stress Testing by Rotating Disk Electrode for Carbon Corrosion in Fuel Cell Catalyst Supports. <i>Journal of the Electrochemical Society</i> , 2015, 162, F783-F788.	2.9	69
9	Bimodal, templated mesoporous carbons for capacitor applications. <i>Carbon</i> , 2010, 48, 1056-1063.	10.3	55
10	Effect of Pt-loaded carbon support nanostructure on oxygen reduction catalysis. <i>Journal of Power Sources</i> , 2011, 196, 5438-5445.	7.8	55
11	Effect of carbon support nanostructure on the oxygen reduction activity of Pt/C catalysts. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2812.	10.3	53
12	New insights into non-precious metal catalyst layer designs for proton exchange membrane fuel cells: Improving performance and stability. <i>Journal of Power Sources</i> , 2017, 344, 39-45.	7.8	43
13	Ultralow platinum loading proton exchange membrane fuel cells: Performance losses and solutions. <i>Journal of Power Sources</i> , 2021, 490, 229515.	7.8	43
14	Novel Mesoporous Carbon Supports for PEMFC Catalysts. <i>Catalysts</i> , 2015, 5, 1046-1067.	3.5	39
15	Native Ligand Carbonization Renders Common Platinum Nanoparticles Highly Durable for Electrocatalytic Oxygen Reduction: Annealing Temperature Matters. <i>Advanced Materials</i> , 2022, 34, e2202743.	21.0	34
16	Embellished hollow spherical catalyst boosting activity and durability for oxygen reduction reaction. <i>Nano Energy</i> , 2018, 51, 745-753.	16.0	33
17	New approach for rapidly determining Pt accessibility of Pt/C fuel cell catalysts. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13471-13476.	10.3	31
18	First time investigation of Pt nanocatalysts deposited inside carbon mesopores of controlled length and diameter. <i>Journal of Materials Chemistry</i> , 2012, 22, 7164.	6.7	29

#	ARTICLE	IF	CITATIONS
19	Oxygen reduction activity dependence on the mesoporous structure of imprinted carbon supports. <i>Electrochemistry Communications</i> , 2010, 12, 1666-1669.	4.7	28
20	Pulsed vs. galvanostatic accelerated stress test protocols: Comparing predictions for anode reversal tolerance in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 500, 229986.	7.8	5
21	Methods for Remit Voltage Reversal of Proton Exchange Membrane Fuel Cells. <i>Frontiers in Energy Research</i> , 2022, 10, .	2.3	1