

Matthias Breitwieser

List of Publications by Year in descending order

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21
papers

985
citations

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docs citations

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times ranked

1020
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalyst layers for fluorine-free hydrocarbon PEMFCs. <i>Electrochimica Acta</i> , 2022, 401, 139479.	5.2	5
2	Fully Hydrocarbon Membrane Electrode Assemblies for Proton Exchange Membrane Fuel Cells and Electrolyzers: An Engineering Perspective. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	34
3	On the stability of anion exchange membrane fuel cells incorporating polyimidazolium ionene (Aemion+®) membranes and ionomers. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3551-3564.	4.9	18
4	MOF-Derived Fe-Zn-N-C Catalysts for Precious Metal Free Cathodes Showing High Performance in Anion-Exchange Membrane Fuel Cells. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1482-1482.	0.0	0
5	Hydrocarbon-based Pemionâ,¢ proton exchange membrane fuel cells with state-of-the-art performance. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3687-3699.	4.9	34
6	Directly coated membrane electrode assemblies for proton exchange membrane water electrolysis. <i>Electrochemistry Communications</i> , 2020, 110, 106640.	4.7	40
7	Efficient and Stable Low Iridium Loaded Anodes for PEM Water Electrolysis Made Possible by Nanofiber Interlayers. <i>ACS Applied Energy Materials</i> , 2020, 3, 8276-8284.	5.1	106
8	Allâ€Hydrocarbon MEA for PEM Water Electrolysis Combining Low Hydrogen Crossover and High Efficiency. <i>Advanced Energy Materials</i> , 2020, 10, 1903995.	19.5	88
9	Improving the water management in anion-exchange membrane fuel cells <i>via</i> ultra-thin, directly deposited solid polymer electrolyte. <i>RSC Advances</i> , 2020, 10, 8645-8652.	3.6	35
10	Water Electrolyzers: Allâ€Hydrocarbon MEA for PEM Water Electrolysis Combining Low Hydrogen Crossover and High Efficiency (Adv. Energy Mater. 14/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070061.	19.5	3
11	Tailoring the Membraneâ€Electrode Interface in PEM Fuel Cells: A Review and Perspective on Novel Engineering Approaches. <i>Advanced Energy Materials</i> , 2018, 8, 1701257.	19.5	105
12	Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, Highâ€Performance Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1602100.	19.5	56
13	A fully spray-coated fuel cell membrane electrode assembly using Aquivion ionomer with a graphene oxide/cerium oxide interlayer. <i>Journal of Power Sources</i> , 2017, 351, 145-150.	7.8	51
14	Fuel Cells: Cerium Oxide Decorated Polymer Nanofibers as Effective Membrane Reinforcement for Durable, Highâ€Performance Fuel Cells (Adv. Energy Mater. 6/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	19.5	0
15	Electrospun sulfonated poly(ether ketone) nanofibers as proton conductive reinforcement for durable Nafion composite membranes. <i>Journal of Power Sources</i> , 2017, 361, 237-242.	7.8	41
16	Simple fabrication of 12Â¼m thin nanocomposite fuel cell membranes by direct electrospinning and printing. <i>Journal of Power Sources</i> , 2017, 337, 137-144.	7.8	53
17	The reasons for the high power density of fuel cells fabricated with directly deposited membranes. <i>Journal of Power Sources</i> , 2016, 326, 170-175.	7.8	55
18	A completely spray-coated membrane electrode assembly. <i>Electrochemistry Communications</i> , 2016, 70, 65-68.	4.7	39

#	ARTICLE	IF	CITATIONS
19	Directly deposited Nafion/TiO ₂ composite membranes for high power medium temperature fuel cells. RSC Advances, 2016, 6, 24261-24266.	3.6	39
20	Direct deposition of proton exchange membranes enabling high performance hydrogen fuel cells. Journal of Materials Chemistry A, 2015, 3, 11239-11245.	10.3	128
21	Improved Pt-utilization efficiency of low Pt-loading PEM fuel cell electrodes using direct membrane deposition. Electrochemistry Communications, 2015, 60, 168-171.	4.7	54