Quentin Meyer

List of Publications by Year in descending order

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42	1,545	236925	302126
papers	citations	25 h-index	39 g-index

42	42	42	1158
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ and Operando Characterization of Proton Exchange Membrane Fuel Cells. Advanced Materials, 2019, 31, e1901900.	21.0	114
2	Effect of gas diffusion layer properties on water distribution across air-cooled, open-cathode polymer electrolyte fuel cells: A combined ex-situ X-ray tomography and in-operando neutron imaging study. Electrochimica Acta, 2016, 211, 478-487.	5.2	78
3	Efficient Oxygen Evolution and Gas Bubble Release Achieved by a Low Gas Bubble Adhesive Ironâ€“Nickel Vanadate Electrocatalyst. Small, 2020, 16, e2002412.	10.0	77
4	Investigation of Hot Pressed Polymer Electrolyte Fuel Cell Assemblies via X-ray Computed Tomography. Electrochimica Acta, 2017, 242, 125-136.	5.2	74
5	Visualization of liquid water in a lung-inspired flow-field based polymer electrolyte membrane fuel cell via neutron radiography. Energy, 2019, 170, 14-21.	8.8	74
6	Dead-ended anode polymer electrolyte fuel cell stack operation investigated using electrochemical impedance spectroscopy, off-gas analysis and thermal imaging. Journal of Power Sources, 2014, 254, 1-9.	7.8	69
7	Combined current and temperature mapping in an air-cooled, open-cathode polymer electrolyte fuel cell under steady-state and dynamic conditions. Journal of Power Sources, 2015, 297, 315-322.	7.8	69
8	Effect of temperature uncertainty on polymer electrolyte fuel cell performance. International Journal of Hydrogen Energy, 2014, 39, 1439-1448.	7.1	67
9	Optimisation of air cooled, open-cathode fuel cells: Current of lowest resistance and electro-thermal performance mapping. Journal of Power Sources, 2015, 291, 261-269.	7.8	56
10	Effect of serpentine flow-field design on the water management of polymer electrolyte fuel cells: An in-operando neutron radiography study. Journal of Power Sources, 2018, 399, 254-263.	7.8	53
11	Electrochemical impedance spectroscopy of catalyst and carbon degradations in proton exchange membrane fuel cells. Journal of Power Sources, 2019, 437, 226922.	7.8	51
12	Cosynergistic Molybdate Oxoâ€Anionic Modification of FeNiâ€Based Electrocatalysts for Efficient Oxygen Evolution Reaction. Advanced Functional Materials, 2022, 32, 2107342.	14.9	49
13	The Hydro-electro-thermal Performance of Air-cooled, Open-cathode Polymer Electrolyte Fuel Cells: Combined Localised Current Density, Temperature and Water Mapping. Electrochimica Acta, 2015, 180, 307-315.	5.2	47
14	The effect of non-uniform compression and flow-field arrangements on membrane electrode assemblies - X-ray computed tomography characterisation and effective parameter determination. Journal of Power Sources, 2019, 426, 97-110.	7.8	46
15	System-level electro-thermal optimisation of air-cooled open-cathode polymer electrolyte fuel cells: Air blower parasitic load and schemes for dynamic operation. International Journal of Hydrogen Energy, 2015, 40, 16760-16766.	7.1	45
16	In situ compression and X-ray computed tomography of flow battery electrodes. Journal of Energy Chemistry, 2018, 27, 1353-1361.	12.9	42
17	Detection of oxygen starvation during carbon corrosion in proton exchange membrane fuel cells using low-frequency electrochemical impedance spectroscopy. Journal of Power Sources, 2020, 470, 228285.	7.8	42
18	Development of open-cathode polymer electrolyte fuel cells using printed circuit board flow-field plates: Flow geometry characterisation. International Journal of Hydrogen Energy, 2014, 39, 18326-18336.	7.1	39

#	Article	IF	Citations
19	Nitrogen Blanketing and Hydrogen Starvation in Dead-Ended-Anode Polymer Electrolyte Fuel Cells Revealed by Hydro-Electro-Thermal Analysis. Electrochimica Acta, 2016, 203, 198-205.	5.2	37
20	Characterisation of the diffusion properties of metal foam hybrid flow-fields for fuel cells using optical flow visualisation and X-ray computed tomography. Journal of Power Sources, 2018, 395, 171-178.	7.8	36
21	Study of water accumulation dynamics in the channels of an open-cathode fuel cell through electro-thermal characterisation and droplet visualisation. International Journal of Hydrogen Energy, 2015, 40, 16786-16796.	7.1	34
22	A Structure and Durability Comparison of Membrane Electrode Assembly Fabrication Methods: Self-Assembled Versus Hot-Pressed. Journal of the Electrochemical Society, 2018, 165, F3045-F3052.	2.9	34
23	X-ray tomography and modelling study on the mechanical behaviour and performance of metal foam flow-fields for polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2019, 44, 7583-7595.	7.1	34
24	Multiâ€Scale Imaging of Polymer Electrolyte Fuel Cells using Xâ€ray Microâ€and Nanoâ€Computed Tomography, Transmission Electron Microscopy and Heliumâ€Ion Microscopy. Fuel Cells, 2019, 19, 35-42.	2.4	31
25	Optimization of the performance, operation conditions and purge rate for a dead-ended anode proton exchange membrane fuel cell using an analytical model. Energy, 2019, 179, 173-185.	8.8	28
26	Development of a polymer electrolyte fuel cell dead-ended anode purge strategy for use with a nitrogen-containing hydrogen gas supply. International Journal of Hydrogen Energy, 2017, 42, 13850-13859.	7.1	25
27	Operando flow regime diagnosis using acoustic emission in a polymer electrolyte membrane water electrolyser. Journal of Power Sources, 2019, 424, 138-149.	7.8	25
28	Investigation of water generation and accumulation in polymer electrolyte fuel cells using hydro-electrochemical impedance imaging. Journal of Power Sources, 2019, 414, 272-277.	7.8	21
29	Operando detection of oxygen reduction reaction kinetics of Feâ€“Nâ€“C catalysts in proton exchange membrane fuel cells. Journal of Power Sources, 2022, 533, 231058.	7.8	20
30	Localised electrochemical impedance measurements of a polymer electrolyte fuel cell using a reference electrode array to give cathode-specific measurements and examine membrane hydration dynamics. Journal of Power Sources, 2018, 382, 38-44.	7.8	16
31	Examining the effect of the secondary flow-field on polymer electrolyte fuel cells using X-ray computed radiography and computational modelling. International Journal of Hydrogen Energy, 2019, 44, 1139-1150.	7.1	15
32	Recent advances in integrating platinum group metal-free catalysts in proton exchange membrane fuel cells. Current Opinion in Electrochemistry, 2022, 31, 100847.	4.8	15
33	Deep learning for full-feature X-ray microcomputed tomography segmentation of proton electron membrane fuel cells. Computers and Chemical Engineering, 2022, 161, 107768.	3.8	15
34	Feâ€“Nâ€“C/Fe nanoparticle composite catalysts for the oxygen reduction reaction in proton exchange membrane fuel cells. Chemical Communications, 2022, 58, 2323-2326.	4.1	14
35	Implementation of different Feâ€“Nâ€“C catalysts in high temperature proton exchange membrane fuel cells â€“ Effect of catalyst and catalyst layer on performance. Journal of Power Sources, 2022, 537, 231529.	7.8	14
36	Air perturbation-induced low-frequency inductive electrochemical impedance arc in proton exchange membrane fuel cells. Journal of Power Sources, 2021, 488, 229245.	7.8	11

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37	Diagnosing Stagnant Gas Bubbles in a Polymer Electrolyte Membrane Water Electrolyser Using Acoustic Emission. Frontiers in Energy Research, 2020, 8, .	2.3	10
38	Advanced Diagnostics Applied to a Self-Breathing Fuel Cell. ECS Transactions, 2014, 61, 249-258.	0.5	9
39	Design of experiments to generate a fuel cell electro-thermal performance map and optimise transitional pathways. International Journal of Powertrains, 2018, 7, 118.	0.3	4
40	Effect of Controlled Anode Flow Release on Dead-Ended Anode Proton Exchange Membrane Fuel Cells. ECS Transactions, 2014, 61, 239-247.	0.5	3
41	A multichannel frequency response analyser for impedance spectroscopy on power sources. Journal of Electrochemical Science and Engineering, 2013, , .	3.5	1
42	Design of experiments to generate a fuel cell electro-thermal performance map and optimise transitional pathways. International Journal of Powertrains, 2018, 7, 118.	0.3	1