

Jason Millichamp

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,244
citations

471509

17
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

2090
citing authors

#	ARTICLE	IF	CITATIONS
1	In-operando high-speed tomography of lithium-ion batteries during thermal runaway. <i>Nature Communications</i> , 2015, 6, 6924.	12.8	494
2	Effect of clamping pressure on ohmic resistance and compression of gas diffusion layers for polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2012, 219, 52-59.	7.8	104
3	Mechanisms and effects of mechanical compression and dimensional change in polymer electrolyte fuel cells – A review. <i>Journal of Power Sources</i> , 2015, 284, 305-320.	7.8	76
4	Current density mapping and optical flow visualisation of a polymer electrolyte membrane water electrolyser. <i>Journal of Power Sources</i> , 2014, 265, 97-103.	7.8	66
5	Elucidating the Sodiation Mechanism in Hard Carbon by Operando Raman Spectroscopy. <i>ACS Applied Energy Materials</i> , 2020, 3, 7474-7484.	5.1	56
6	A study of the effect of compression on the performance of polymer electrolyte fuel cells using electrochemical impedance spectroscopy and dimensional change analysis. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7414-7422.	7.1	53
7	A study of the effect of water management and electrode flooding on the dimensional change of polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2013, 242, 70-77.	7.8	45
8	4D nano-tomography of electrochemical energy devices using lab-based X-ray imaging. <i>Nano Energy</i> , 2018, 47, 556-565.	16.0	37
9	Design of a miniature flow cell for in situ x-ray imaging of redox flow batteries. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 434002.	2.8	35
10	Investigating the effect of thermal gradients on stress in solid oxide fuel cell anodes using combined synchrotron radiation and thermal imaging. <i>Journal of Power Sources</i> , 2015, 288, 473-481.	7.8	33
11	Measurement of water uptake in thin-film Nafion and anion alkaline exchange membranes using the quartz crystal microbalance. <i>Journal of Membrane Science</i> , 2016, 497, 229-238.	8.2	32
12	A study of carbon deposition on solid oxide fuel cell anodes using electrochemical impedance spectroscopy in combination with a high temperature crystal microbalance. <i>Journal of Power Sources</i> , 2013, 235, 14-19.	7.8	28
13	An electrochemical treatment to improve corrosion and contact resistance of stainless steel bipolar plates used in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2014, 245, 1014-1026.	7.8	25
14	Effect of compression on the water management of polymer electrolyte fuel cells: An in-operando neutron radiography study. <i>Journal of Power Sources</i> , 2019, 412, 597-605.	7.8	25
15	The Importance of Using Alkaline Ionomer Binders for Screening Electrocatalysts in Alkaline Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, F1551-F1555.	2.9	21
16	Investigation of water generation and accumulation in polymer electrolyte fuel cells using hydro-electrochemical impedance imaging. <i>Journal of Power Sources</i> , 2019, 414, 272-277.	7.8	21
17	A novel polymer electrolyte fuel cell flow-field: The through-plane array. <i>Journal of Power Sources</i> , 2019, 442, 227218.	7.8	18
18	Application of a GaPO ₄ Crystal Microbalance for the Detection of Coke Formation in High-Temperature Reactors and Solid Oxide Fuel Cells. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 8371-8375.	3.7	16

#	ARTICLE	IF	CITATIONS
19	Integration of supercapacitors into printed circuit boards. <i>Journal of Energy Storage</i> , 2018, 19, 28-34.	8.1	14
20	Alkaline anion exchange membrane degradation as a function of humidity measured using the quartz crystal microbalance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 6243-6249.	7.1	13
21	Effect of reactant gas flow orientation on the current and temperature distribution in self-heating polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 7502-7514.	7.1	11
22	A novel high-temperature furnace for combined <i>in situ</i> synchrotron X-ray diffraction and infrared thermal imaging to investigate the effects of thermal gradients upon the structure of ceramic materials. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1134-1139.	2.4	9
23	Effect of humidity on the interaction of CO ₂ with alkaline anion exchange membranes probed using the quartz crystal microbalance. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24301-24307.	7.1	9
24	An Electrochemical Impedance Spectroscopy Study and Two Phase Flow Analysis of the Anode of Polymer Electrolyte Membrane Water Electrolyser. <i>ECS Transactions</i> , 2015, 68, 117-131.	0.5	3