

Matteo Zago

List of Publications by Year in descending order

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papers

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times ranked

586
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#	ARTICLE	IF	CITATIONS
1	Analysis of flow field design on vanadium redox flow battery performance: Development of 3D computational fluid dynamic model and experimental validation. <i>Applied Energy</i> , 2018, 228, 1057-1070.	10.1	124
2	Application of computational fluid dynamics to the analysis of geometrical features in PEM fuel cells flow fields with the aid of impedance spectroscopy. <i>Applied Energy</i> , 2017, 205, 670-682.	10.1	38
3	A Quasi 2D Model of a High Temperature Polymer Fuel Cell for the Interpretation of Impedance Spectra. <i>Fuel Cells</i> , 2014, 14, 926-937.	2.4	32
4	Water transport and flooding in DMFC: Experimental and modeling analyses. <i>Journal of Power Sources</i> , 2012, 217, 381-391.	7.8	29
5	Efficiency Analysis of Independent and Centralized Heating Systems for Residential Buildings in Northern Italy. <i>Energies</i> , 2011, 4, 2115-2131.	3.1	27
6	On the effect of gas diffusion layers hydrophobicity on direct methanol fuel cell performance and degradation. <i>Journal of Power Sources</i> , 2015, 273, 680-687.	7.8	26
7	A combined in-situ and post-mortem investigation on local permanent degradation in a direct methanol fuel cell. <i>Journal of Power Sources</i> , 2016, 306, 49-61.	7.8	26
8	Investigation of vanadium redox flow batteries performance through locally-resolved polarisation curves and impedance spectroscopy: Insight into the effects of electrolyte, flow field geometry and electrode thickness. <i>Journal of Power Sources</i> , 2020, 449, 227588.	7.8	26
9	Experimental investigation on DMFC temporary degradation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21647-21656.	7.1	25
10	Effect of anode MPL on water and methanol transport in DMFC: Experimental and modeling analyses. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 21620-21630.	7.1	24
11	Physically-based impedance modeling of the negative electrode in All-Vanadium Redox Flow Batteries: insight into mass transport issues. <i>Electrochimica Acta</i> , 2017, 248, 505-517.	5.2	24
12	Local potential measurement through reference electrodes in vanadium redox flow batteries: Evaluation of overpotentials and electrolytes imbalance. <i>Journal of Power Sources</i> , 2018, 400, 218-224.	7.8	23
13	Experimental analysis of recoverable performance loss induced by platinum oxide formation at the polymer electrolyte membrane fuel cell cathode. <i>Journal of Power Sources</i> , 2020, 455, 227990.	7.8	23
14	Modelling analysis of heterogeneity of ageing in high temperature polymer electrolyte fuel cells: insight into the evolution of electrochemical impedance spectra. <i>Electrochimica Acta</i> , 2016, 222, 596-607.	5.2	19
15	On the actual cathode mixed potential in direct methanol fuel cells. <i>Journal of Power Sources</i> , 2016, 325, 714-722.	7.8	19
16	Experimental investigation of methanol crossover evolution during direct methanol fuel cell degradation tests. <i>Journal of Power Sources</i> , 2014, 249, 103-109.	7.8	15
17	A combined morphological and electrochemical characterization of carbon electrodes in vanadium redox flow batteries: Insights into positive and negative electrode performance. <i>Electrochimica Acta</i> , 2020, 329, 135143.	5.2	15
18	A tri-generation system based on polymer electrolyte fuel cell and desiccant wheel " Part A: Fuel cell system modelling and partial load analysis. <i>Energy Conversion and Management</i> , 2015, 106, 1450-1459.	9.2	14

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19	A Parametric Analysis on DMFC Anode Degradation. Fuel Cells, 2014, 14, 386-394.	2.4	12
20	Development of innovative flow fields in a vanadium redox flow battery: Design of channel obstructions with the aid of 3D computational fluid dynamic model and experimental validation through locally-resolved polarization curves. Journal of Power Sources, 2022, 526, 231155.	7.8	12
21	A physical model of Direct Methanol Fuel Cell anode impedance. Journal of Power Sources, 2014, 248, 1181-1190.	7.8	11
22	A locally resolved investigation on direct methanol fuel cell uneven components fading: Local cathode catalyst layer tuning for homogeneous operation and reduced degradation rate. Journal of Power Sources, 2018, 404, 135-148.	7.8	11
23	Design and Development of an Innovative Barrier Layer to Mitigate Crossover in Vanadium Redox Flow Batteries. Journal of the Electrochemical Society, 2020, 167, 130535.	2.9	9
24	Local durability optimization of a large-scale direct methanol fuel cell: catalyst layer tuning for homogeneous operation and in-operando detection of localized hydrogen evolution. Journal of Power Sources, 2021, 506, 230218.	7.8	7
25	Unravelling the Contribution of Kinetics and Mass Transport Phenomena to Impedance Spectra in Vanadium Redox Flow Batteries: Development and Validation of a 1D Physics-Based Analytical Model. Journal of the Electrochemical Society, 2020, 167, 110534.	2.9	6
26	A transient multi-scale model for direct methanol fuel cells. Electrochimica Acta, 2017, 232, 215-225.	5.2	5
27	An High Performance Carbon-Nano Onion Electrode for Vanadium Redox Flow Battery. ECS Meeting Abstracts, 2022, MA2022-01, 2036-2036.	0.0	1
28	Redox Flow Batteries: Physics-Based Cell Modeling. , 2021, , .		0
29	Development of a Physics-Based Analytical Impedance Model in Vanadium Redox Flow Batteries: Insight into Local Mass Transport Losses. ECS Meeting Abstracts, 2022, MA2022-01, 2007-2007.	0.0	0
30	Development of an Additional Selective Layer to Mitigate Crossover in Vanadium Redox Flow Batteries: Influence of Composition on Efficiency and Capacity Decay. ECS Meeting Abstracts, 2022, MA2022-01, 467-467.	0.0	0