

Douglas Aaron

List of Publications by Year in descending order

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papers

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citations

516710

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29
all docs

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docs citations

29
times ranked

979
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Kinetics Studies in All-Vanadium Redox Flow Batteries. ECS Electrochemistry Letters, 2013, 2, A29-A31.	1.9	145
2	Architecture for improved mass transport and system performance in redox flow batteries. Journal of Power Sources, 2017, 351, 96-105.	7.8	118
3	Critical Review“Experimental Diagnostics and Material Characterization Techniques Used on Redox Flow Batteries. Journal of the Electrochemical Society, 2018, 165, A970-A1010.	2.9	87
4	Elucidating effects of cell architecture, electrode material, and solution composition on overpotentials in redox flow batteries. Electrochimica Acta, 2017, 229, 261-270.	5.2	85
5	Resolving Losses at the Negative Electrode in All-Vanadium Redox Flow Batteries Using Electrochemical Impedance Spectroscopy. Journal of the Electrochemical Society, 2014, 161, A981-A988.	2.9	82
6	In Situ Localized Current Distribution Measurements in All-Vanadium Redox Flow Batteries. Journal of the Electrochemical Society, 2016, 163, A5220-A5228.	2.9	52
7	Proton Exchange Membrane Performance Characterization in VRFB. ECS Transactions, 2012, 41, 25-34.	0.5	44
8	Qualitative behavior of vanadium ions in Nafion membranes using electron spin resonance. Journal of Membrane Science, 2013, 428, 38-45.	8.2	37
9	Multi-variable mathematical models for the air-cathode microbial fuel cell system. Journal of Power Sources, 2016, 314, 49-57.	7.8	35
10	Modeling and validation of single-chamber microbial fuel cell cathode biofilm growth and response to oxidant gas composition. Journal of Power Sources, 2016, 328, 385-396.	7.8	34
11	Full cell simulation and the evaluation of the buffer system on air-cathode microbial fuel cell. Journal of Power Sources, 2017, 347, 159-169.	7.8	26
12	Is Carbon Capture and Storage Really Needed?. Environmental Science & Technology, 2010, 44, 4042-4045.	10.0	24
13	The role of water management on the oxygen transport resistance in polymer electrolyte fuel cell with ultra-low precious metal loading. Journal of Power Sources, 2017, 364, 92-100.	7.8	19
14	Scale-up of a continuous-jet hydrate reactor for CO2 ocean sequestration. AIChE Journal, 2007, 53, 1017-1027.	3.6	17
15	In-situ current distribution and mass transport analysis via strip cell architecture for a vanadium redox flow battery. Journal of Power Sources, 2019, 437, 226920.	7.8	17
16	Investigating microbial fuel cell bioanode performance under different cathode conditions. Biotechnology Progress, 2009, 25, 1630-1636.	2.6	16
17	In Situ Single Electrode Studies of an All-Vanadium Redox Flow Battery. ECS Transactions, 2012, 41, 43-51.	0.5	14
18	Effects of mass and interaction mismatches on in-plane and cross-plane thermal transport of Si-doped graphene. International Journal of Heat and Mass Transfer, 2021, 169, 120979.	4.8	13

#	ARTICLE	IF	CITATIONS
19	Mass transport limitations in polymer electrolyte water electrolyzers using spatially-resolved current measurement. <i>Journal of Power Sources</i> , 2022, 542, 231749.	7.8	7
20	Architecture-Based Control of Temperature Gradient-Driven Water Transport in Polymer Electrolyte Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 104504.	2.9	5
21	Investigation of microscopic mechanisms for water-ice phase change propagation control. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122357.	4.8	5
22	Computational and Experimental Study of Convection in a Vanadium Redox Flow Battery Strip Cell Architecture. <i>Energies</i> , 2020, 13, 4767.	3.1	2
23	Isolation of Mass Transport and Current Distribution in Vanadium Flow Batteries Via Segmented Strip Cell. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
24	Understanding the Interplay between Electrolyte Velocity Distribution and Current Distribution in Vanadium Flow Battery Electrode. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
25	In-Plane Liquid Electrolyte Permeability of Porous Electrode in Vanadium Redox Flow Battery. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 216-216.	0.0	0
26	Local Two-Phase Flow and Performance in Polymer Electrolyte Water Electrolysis Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1190-1190.	0.0	0
27	A Robust and Quantified Analysis of Mass Transport and Its Application in Designing Next Generation Architecture for Polymer Electrolyte Water Electrolysis Cells. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1761-1761.	0.0	0
28	(Digital Presentation) High-Temperature Ammonia Treatment for Carbon Felt Electrodes in All-Vanadium Redox Flow Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2027-2027.	0.0	0
29	Understanding the Transport Phenomena in Solid State Battery (SSB). <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 45-45.	0.0	0