Douglas Aaron

List of Publications by Year in descending order

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516710 610901 29 886 16 24 citations g-index h-index papers 29 29 29 979 docs citations times ranked citing authors all docs

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Investigation of microscopic mechanisms for water-ice phase change propagation control. International Journal of Heat and Mass Transfer, 2022, 184, 122357. | 4.8 | 5 |
| 2 | A Robust and Quantified Analysis of Mass Transport and Its Application in Designing Next Generation Architecture for Polymer Electrolyte Water Electrolysis Cells. ECS Meeting Abstracts, 2022, MA2022-01, 1761-1761. | 0.0 | 0 |
| 3 | (Digital Presentation) High-Temperature Ammonia Treatment for Carbon Felt Electrodes in All-Vanadium Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 2027-2027. | 0.0 | O |
| 4 | Understanding the Transport Phenomena in Solid State Battery (SSB). ECS Meeting Abstracts, 2022, MA2022-01, 45-45. | 0.0 | 0 |
| 5 | Mass transport limitations in polymer electrolyte water electrolyzers using spatially-resolved current measurement. Journal of Power Sources, 2022, 542, 231749. | 7.8 | 7 |
| 6 | 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 |
| 7 | In-Plane Liquid Electrolyte Permeability of Porous Electrode in Vanadium Redox Flow Battery. ECS Meeting Abstracts, 2021, MA2021-01, 216-216. | 0.0 | 0 |
| 8 | Local Two-Phase Flow and Performance in Polymer Electrolyte Water Electrolysis Cells. ECS Meeting Abstracts, 2021, MA2021-01, 1190-1190. | 0.0 | 0 |
| 9 | Computational and Experimental Study of Convection in a Vanadium Redox Flow Battery Strip Cell Architecture. Energies, 2020, 13, 4767. | 3.1 | 2 |
| 10 | Architecture-Based Control of Temperature Gradient-Driven Water Transport in Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2020, 167, 104504. | 2.9 | 5 |
| 11 | 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 |
| 12 | Isolation of Mass Transport and Current Distribution in Vanadium Flow Batteries Via Segmented Strip Cell. ECS Meeting Abstracts, $2019, \ldots$ | 0.0 | 1 |
| 13 | Understanding the Interplay between Electrolyte Velocity Distribution and Current Distribution in Vanadium Flow Battery Electrode. ECS Meeting Abstracts, 2019, , . | 0.0 | 1 |
| 14 | Critical Reviewâ€"Experimental Diagnostics and Material Characterization Techniques Used on Redox Flow Batteries. Journal of the Electrochemical Society, 2018, 165, A970-A1010. | 2.9 | 87 |
| 15 | 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 |
| 16 | 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 |
| 17 | Architecture for improved mass transport and system performance in redox flow batteries. Journal of Power Sources, 2017, 351, 96-105. | 7.8 | 118 |
| 18 | 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 |

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|----|--|------|-----------|
| 19 | 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 |
| 20 | In Situ Localized Current Distribution Measurements in All-Vanadium Redox Flow Batteries. Journal of the Electrochemical Society, 2016, 163, A5220-A5228. | 2.9 | 52 |
| 21 | Multi-variable mathematical models for the air-cathode microbial fuel cell system. Journal of Power Sources, 2016, 314, 49-57. | 7.8 | 35 |
| 22 | 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 |
| 23 | Qualitative behavior of vanadium ions in Nafion membranes using electron spin resonance. Journal of Membrane Science, 2013, 428, 38-45. | 8.2 | 37 |
| 24 | In Situ Kinetics Studies in All-Vanadium Redox Flow Batteries. ECS Electrochemistry Letters, 2013, 2, A29-A31. | 1.9 | 145 |
| 25 | Proton Exchange Membrane Performance Characterization in VRFB. ECS Transactions, 2012, 41, 25-34. | 0.5 | 44 |
| 26 | In Situ Single Electrode Studies of an All-Vanadium Redox Flow Battery. ECS Transactions, 2012, 41, 43-51. | 0.5 | 14 |
| 27 | Is Carbon Capture and Storage Really Needed?. Environmental Science & Environm | 10.0 | 24 |
| 28 | Investigating microbial fuel cell bioanode performance under different cathode conditions. Biotechnology Progress, 2009, 25, 1630-1636. | 2.6 | 16 |
| 29 | Scale-up of a continuous-jet hydrate reactor for CO2 ocean sequestration. AICHE Journal, 2007, 53, 1017-1027. | 3.6 | 17 |