

Jacob A Wrubel

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

350
citations

840776

11
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive modeling method for proton exchange membrane electrolyzer development. International Journal of Hydrogen Energy, 2021, 46, 17627-17643.	7.1	70
2	High-Performance Bipolar Membrane Development for Improved Water Dissociation. ACS Applied Polymer Materials, 2020, 2, 4559-4569.	4.4	45
3	Insights into the rapid two-phase transport dynamics in different structured porous transport layers of water electrolyzers through high-speed visualization. Journal of Power Sources, 2021, 516, 230641.	7.8	39
4	Tuning Catalyst Activation and Utilization Via Controlled Electrode Patterning for Low-Loading and High-Efficiency Water Electrolyzers. Small, 2022, 18, e2107745.	10.0	30
5	Modeling Water Electrolysis in Bipolar Membranes. Journal of the Electrochemical Society, 2020, 167, 114502.	2.9	25
6	Mathematical modeling of novel porous transport layer architectures for proton exchange membrane electrolysis cells. International Journal of Hydrogen Energy, 2021, 46, 25341-25354.	7.1	21
7	Exploring the Impacts of Conditioning on Proton Exchange Membrane Electrolyzers by <i>In Situ</i> Visualization and Electrochemistry Characterization. ACS Applied Materials & Interfaces, 2022, 14, 9002-9012.	8.0	20
8	Thermal stability of specialty optical fiber coatings. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1411-1423.	3.6	17
9	Modeling the performance and faradaic efficiency of solid oxide electrolysis cells using doped barium zirconate perovskite electrolytes. International Journal of Hydrogen Energy, 2021, 46, 11511-11522.	7.1	16
10	Anion Exchange Membrane Ionic Conductivity in the Presence of Carbon Dioxide under Fuel Cell Operating Conditions. Journal of the Electrochemical Society, 2017, 164, F1063-F1073.	2.9	14
11	Anion Exchange Membrane Fuel Cell Performance in the Presence of Carbon Dioxide: An Investigation into the Self-Purging Mechanism. Journal of the Electrochemical Society, 2019, 166, F810-F820.	2.9	14
12	The effect of catholyte and catalyst layer binders on CO ₂ electroreduction selectivity. Chem Catalysis, 2022, 2, 400-421.	6.1	9
13	Three-dimensional mapping of crystalline ceramic waste form materials. Journal of the American Ceramic Society, 2017, 100, 3722-3735.	3.8	6
14	Estimating the energy requirement for hydrogen production in proton exchange membrane electrolysis cells using rapid operando hydrogen crossover analysis. International Journal of Hydrogen Energy, 2022, 47, 28244-28253.	7.1	6
15	Modeling Electrokinetics of Oxygen Electrodes in Solid Oxide Electrolyzer Cells. Journal of the Electrochemical Society, 2021, 168, 114510.	2.9	5
16	<i>In Situ</i> Determination of Speciation and Local Structure of NaCl·2SrCl ₂ and LiF·ZrF ₄ Molten Salts. Journal of Physical Chemistry B, 2022, 126, 1539-1550.	2.6	5
17	Anion Exchange Membrane Ionic Conductivity in the Presence of Carbon Dioxide under Fuel Cell Operating Conditions. ECS Transactions, 2017, 80, 989-1003.	0.5	4
18	Predicting the Effects of Carbon Dioxide on the Conductivity of Electrospun Anion Exchange Membranes. Journal of the Electrochemical Society, 2019, 166, F1047-F1054.	2.9	4

#	ARTICLE	IF	CITATIONS
19	Simultaneous three-dimensional elemental mapping of Hollandite and Pyrochlore material phases in ceramic waste form materials. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5620-5631.	3.8	0