

Ertan Agar

List of Publications by Year in descending order

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36
papers

1,539
citations

516710

16
h-index

434195

31
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all docs

36
docs citations

36
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	A Transient Vanadium Flow Battery Model Incorporating Vanadium Crossover and Water Transport through the Membrane. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1446-A1459.	2.9	298
2	Selective anion exchange membranes for high coulombic efficiency vanadium redox flow batteries. <i>Electrochemistry Communications</i> , 2013, 26, 37-40.	4.7	191
3	Enhancing Mass Transport in Redox Flow Batteries by Tailoring Flow Field and Electrode Design. <i>Journal of the Electrochemical Society</i> , 2016, 163, A5163-A5169.	2.9	142
4	Optimized Anion Exchange Membranes for Vanadium Redox Flow Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7559-7566.	8.0	136
5	Identification of performance limiting electrode using asymmetric cell configuration in vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2013, 225, 89-94.	7.8	136
6	Species transport mechanisms governing capacity loss in vanadium flow batteries: Comparing Nafion® and sulfonated Radel membranes. <i>Electrochimica Acta</i> , 2013, 98, 66-74.	5.2	108
7	Reducing capacity fade in vanadium redox flow batteries by altering charging and discharging currents. <i>Journal of Power Sources</i> , 2014, 246, 767-774.	7.8	83
8	Optimizing membrane thickness for vanadium redox flow batteries. <i>Journal of Membrane Science</i> , 2013, 437, 108-113.	8.2	81
9	Modeling of Ion Crossover in Vanadium Redox Flow Batteries: A Computationally-Efficient Lumped Parameter Approach for Extended Cycling. <i>Journal of the Electrochemical Society</i> , 2016, 163, A5244-A5252.	2.9	60
10	Obstructed flow field designs for improved performance in vanadium redox flow batteries. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 551-561.	2.9	37
11	Impact of Corrosion Conditions on Carbon Paper Electrode Morphology and the Performance of a Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A353-A363.	2.9	24
12	Bioinspired, high-stability, nonaqueous redox flow battery electrolytes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11586-11591.	10.3	22
13	Influence of thermal treatment conditions on capacitive deionization performance and charge efficiency of carbon electrodes. <i>Separation and Purification Technology</i> , 2018, 202, 67-75.	7.9	21
14	Elucidating Effects of Faradaic Imbalance on Vanadium Redox Flow Battery Performance: Experimental Characterization. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3844-A3851.	2.9	19
15	Probing Li-ion concentration in an operating lithium ion battery using in situ Raman spectroscopy. <i>Journal of Power Sources</i> , 2020, 449, 227361.	7.8	19
16	Ultra-high-aspect-ratio vertically aligned 2D MoS ₂ -1D TiO ₂ nanobelt heterostructured forests for enhanced photoelectrochemical performance. <i>Electrochimica Acta</i> , 2019, 316, 173-180.	5.2	17
17	On the quantification of coulombic efficiency for vanadium redox flow batteries: Cutoff voltages vs. state-of-charge limits. <i>Electrochemistry Communications</i> , 2013, 35, 42-44.	4.7	16
18	Modeling the Effect of Channel Tapering on the Pressure Drop and Flow Distribution Characteristics of Interdigitated Flow Fields in Redox Flow Batteries. <i>Processes</i> , 2020, 8, 775.	2.8	16

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19	An organic-inorganic hybrid photoelectrochemical storage cell for improved solar energy storage. <i>Electrochimica Acta</i> , 2018, 263, 570-575.	5.2	14
20	Operando Spectroelectrochemical Characterization of a Highly Stable Bioinspired Redox Flow Battery Active Material. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1745-A1751.	2.9	14
21	Editors' Choice "Electrochemical Impedance Spectroscopy of Flowing Electrosorptive Slurry Electrodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, E439-E444.	2.9	12
22	Impact of flow configuration on electrosorption performance and energy consumption of CDI systems. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2020, 69, 134-144.	1.4	12
23	Investigation of Transport and Kinetic Nonideality in Solid Li-Ion Electrodes through Deconvolution of Electrochemical Impedance Spectra. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020523.	2.9	12
24	Designing high energy density flow batteries by tuning active-material thermodynamics. <i>RSC Advances</i> , 2021, 11, 5432-5443.	3.6	8
25	Computational and experimental investigation of the effect of cation structure on the solubility of anionic flow battery active-materials. <i>Chemical Science</i> , 2021, 12, 15892-15907.	7.4	8
26	International Summer Engineering Program on fuel cells for undergraduate engineering students. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 3712-3725.	7.1	7
27	Parameter Identification of Lithium-Ion Batteries by Coupling Electrochemical Impedance Spectroscopy with a Physics-Based Model. <i>Journal of the Electrochemical Society</i> , 2022, 169, 040561.	2.9	6
28	Towards Selective Removal of Bromide from Drinking Water Resources using Electrochemical Desalination. <i>Chemical Engineering Journal Advances</i> , 2022, 12, 100369.	5.2	6
29	An integrated solar cell with built-in energy storage capability. <i>Electrochimica Acta</i> , 2020, 349, 136368.	5.2	5
30	Efficiency enhancement in photoelectrochemical water splitting: Defect passivation and boosted charge transfer kinetics of zinc oxide nanostructures via chalcopyrite/chalcogenide mix sensitization. <i>Physical Review Materials</i> , 2021, 5, .	2.4	5
31	Toward High Energy Density Redox Targeting Flow Batteries With a Mushroom-Derived Electrolyte. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2022, 19, .	2.1	3
32	Work in progress - International Summer Engineering Program at METU: A bridge to global competency. , 2009, , .		1
33	Exploring the Structure-Function-Performance Relationship of Carbon Electrodes Toward Rational Design of High-Performance Redox Flow Cells. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 215-215.	0.0	0
34	(Digital Presentation) Development of a Bio-Inspired Non-Aqueous Redox Flow Battery Utilizing Anionic Active Materials. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 481-481.	0.0	0
35	High-Capacity Bio-Inspired Redox Flow Batteries with Insoluble Redox Boosters. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 482-482.	0.0	0
36	Exploring the Effectiveness of Carbon Cloth Electrodes for All-Vanadium Redox Flow Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 462-462.	0.0	0