

# Jie Cheng

## List of Publications by Year in descending order

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1040056

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docs citations

18  
times ranked

369  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the effect of hydrogen evolution reaction in the zinc-nickel single flow battery. Journal of Energy Storage, 2022, 50, 104246.	8.1	11
2	Simulation of dendritic growth of a zinc anode in a zinc-nickel single flow battery using the phase field-lattice Boltzmann method. New Journal of Chemistry, 2021, 45, 1838-1852.	2.8	8
3	Parameter Identification and State Estimation in Management System of Zinc-Nickel Single-Flow Batteries. Journal of Chemical Engineering of Japan, 2021, 54, 172-183.	0.6	1
4	Three-dimensional transient model of zinc-nickel single flow battery considering side reactions. Electrochimica Acta, 2021, 374, 137895.	5.2	10
5	A 3D lithium metal anode reinforced by scalable in-situ copper oxide nanostick copper mesh. Journal of Alloys and Compounds, 2021, 865, 158908.	5.5	9
6	Tab Design Based on the Internal Distributed Properties in a Zinc-Nickel Single-Flow Battery. Industrial & Engineering Chemistry Research, 2021, 60, 1434-1451.	3.7	6
7	Transient simulation of porous cathodes of zinc-nickel single-flow batteries based on lattice Boltzmann method. Journal of Energy Storage, 2020, 32, 101937.	8.1	5
8	A parameter estimation method for a zinc-nickel-single-flow battery. AIP Advances, 2020, 10, 025202.	1.3	1
9	Two-dimensional transient model and mechanism of the self-discharging of zinc-nickel single-flow batteries. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	4
10	A dynamic model for discharge research of zinc-nickel single flow battery. Electrochimica Acta, 2019, 307, 573-581.	5.2	20
11	Pore-scale study of dynamic ion adsorption process in porous electrodes of capacitive deionization using lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2019, 135, 769-781.	4.8	21
12	Series-parallel grouping modeling simulation and experimental analysis of zinc-nickel single flow batteries. Journal of Renewable and Sustainable Energy, 2018, 10, .	2.0	2
13	Equivalent circuit modeling and simulation of the zinc nickel single flow battery. AIP Advances, 2017, 7, 055112.	1.3	16
14	Experimental study on charge/discharge characteristics of zinc-nickel single-flow battery. Journal of Renewable and Sustainable Energy, 2017, 9, 054102.	2.0	6
15	Modeling and simulation of the zinc-nickel single flow batteries based on MATLAB/Simulink. AIP Advances, 2016, 6, 125302.	1.3	9
16	Analysis of internal reaction and mass transfer of zinc-nickel single flow battery. Journal of Renewable and Sustainable Energy, 2016, 8, 064102.	2.0	11
17	Study of zinc electrodes for single flow zinc/nickel battery application. Journal of Power Sources, 2008, 179, 381-387.	7.8	106
18	Preliminary study of single flow zinc-nickel battery. Electrochemistry Communications, 2007, 9, 2639-2642.	4.7	207