Jie Cheng

List of Publications by Year
in descending order

18	453	1040056 9	839539 18
papers	citations	h-index	g-index

18	18	18	369
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preliminary study of single flow zincâ€“nickel battery. Electrochemistry Communications, 2007, 9, 2639-2642.	4.7	207
2	Study of zinc electrodes for single flow zinc/nickel battery application. Journal of Power Sources, 2008, 179, 381-387.	7.8	106
3	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
4	A dynamic model for discharge research of zinc-nickel single flow battery. Electrochimica Acta, 2019, 307, 573-581.	5.2	20
5	Equivalent circuit modeling and simulation of the zinc nickel single flow battery. AIP Advances, 2017, 7, 055112.	1.3	16
6	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
7	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
8	Three-dimensional transient model of zinc-nickel single flow battery considering side reactions. Electrochimica Acta, 2021, 374, 137895.	5.2	10
9	Modeling and simulation of the zinc-nickel single flow batteries based on MATLAB/Simulink. AIP Advances, 2016, 6, 125302.	1.3	9
10	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
11	Simulation of dendritic growth of a zinc anode in a zincâ€“nickel single flow battery using the phase field-lattice Boltzmann method. New Journal of Chemistry, 2021, 45, 1838-1852.	2.8	8
12	Experimental study on charge/discharge characteristics of zinc-nickel single-flow battery. Journal of Renewable and Sustainable Energy, 2017, 9, 054102.	2.0	6
13	Tab Design Based on the Internal Distributed Properties in a Zincâ€“Nickel Single-Flow Battery. Industrial & Engineering Chemistry Research, 2021, 60, 1434-1451.	3.7	6
14	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
15	Two-dimensional transient model and mechanism of the self-discharging of zincâ€“nickel single-flow batteries. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	4
16	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
17	A parameter estimation method for a zinc-nickel-single-flow battery. AIP Advances, 2020, 10, 025202.	1.3	1
18	Parameter Identification and State Estimation in Management System of Zincâ€“Nickel Single-Flow Batteries. Journal of Chemical Engineering of Japan, 2021, 54, 172-183.	0.6	1