

Yao Shouguang

List of Publications by Year in descending order

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55
papers

461
citations

840776

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all docs

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docs citations

55
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic study of ion transport in the porous electrode of a desalination battery based on the lattice Boltzmann method. <i>New Journal of Chemistry</i> , 2022, 46, 1516-1532.	2.8	1
2	Comparison of solidification performance enhancement strategies for a triplex-tube thermal energy storage system. <i>Applied Thermal Engineering</i> , 2022, 204, 117997.	6.0	19
3	Influence of operation parameters and design parameters on desalination performance of Na-ion desalination battery. <i>Ionics</i> , 2022, 28, 1791-1807.	2.4	2
4	Melting performance assessments on a triplex-tube thermal energy storage system: Optimization based on response surface method with natural convection. <i>Renewable Energy</i> , 2022, 188, 890-910.	8.9	33
5	Analysis and Prediction of Flow-Induced Vibration of Convection Pipe for 200 t/h D Type Gas Boiler. <i>Axioms</i> , 2022, 11, 163.	1.9	0
6	Integrated design and optimization research of LNG cold energy and main engine exhaust heat utilization for LNG powered ships. <i>Case Studies in Thermal Engineering</i> , 2022, 33, 101976.	5.7	8
7	Study on the effect of hydrogen evolution reaction in the zinc-nickel single flow battery. <i>Journal of Energy Storage</i> , 2022, 50, 104246.	8.1	11
8	Study on Ion Transport Mechanism of Zinc-Nickel Single-Flow Battery with Different Porous Electrode Structures based on Lattice Boltzmann Method. <i>Journal of the Electrochemical Society</i> , 2022, 169, 050518.	2.9	2
9	Research on the sneak circuit analysis method of a thermal system based on energy flow. <i>Energy Science and Engineering</i> , 2022, 10, 3358-3370.	4.0	1
10	Study on electrolyte supply strategy for energy storage system of multi zinc nickel single flow battery stack loaded with single pump. <i>Journal of Energy Storage</i> , 2021, 33, 102120.	8.1	1
11	Simulation of dendritic growth of a zinc anode in a zinc-nickel single flow battery using the phase field-lattice Boltzmann method. <i>New Journal of Chemistry</i> , 2021, 45, 1838-1852.	2.8	8
12	Cold exergy recovery in LNG powered ships with a new integral intermediate fluid vaporizer. <i>AIP Advances</i> , 2021, 11, 035022.	1.3	1
13	Design and optimization of LNG cold energy utilization scheme for dual fuel main engine of 37000DWT asphalt ship. <i>International Journal of Green Energy</i> , 2021, 18, 1289-1301.	3.8	5
14	Parameter Identification and State Estimation in Management System of Zinc-Nickel Single-Flow Batteries. <i>Journal of Chemical Engineering of Japan</i> , 2021, 54, 172-183.	0.6	1
15	Three-dimensional transient model of zinc-nickel single flow battery considering side reactions. <i>Electrochimica Acta</i> , 2021, 374, 137895.	5.2	10
16	Effects of different concentrations of Al ₂ O ₃ nanoparticles and base fluid types on pool boiling heat transfer in copper foam with bottom condensed reflux. <i>International Journal of Thermal Sciences</i> , 2021, 163, 106833.	4.9	9
17	Preparation and electrochemical performance of Mn and Al Co-doped nickel hydroxide. <i>Ionics</i> , 2021, 27, 3041-3049.	2.4	0
18	Design and optimization of LNG vaporization cold energy comprehensive utilization system based on a novel intermediate fluid vaporizer. <i>Applied Thermal Engineering</i> , 2021, 190, 116785.	6.0	12

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19	Pore-scale study of capacitive charging and desalination process in porous electrodes and effects of porous structures. <i>Journal of Molecular Liquids</i> , 2021, 332, 115863.	4.9	8
20	Structural Modification of Negative Electrode for Zinc-Nickel Single-Flow Battery Based on Polarization Analysis. <i>Journal of the Electrochemical Society</i> , 2021, 168, 070512.	2.9	7
21	Study on solidification performance of PCM by longitudinal triangular fins in a triplex-tube thermal energy storage system. <i>Energy</i> , 2021, 227, 120527.	8.8	78
22	Solidification performance of new trapezoidal longitudinal fins in latent heat thermal energy storage. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101110.	5.7	34
23	Amelioration of boiling heat transfer by 3D deposition structure of graphene-silver hybrid nanoparticle. <i>Energy Conversion and Management: X</i> , 2021, 12, 100109.	1.6	2
24	Tab Design Based on the Internal Distributed Properties in a Zinc-Nickel Single-Flow Battery. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 1434-1451.	3.7	6
25	Sneak Analysis Based on Energy Flow in Thermal Systems With Recirculation Structure. <i>IEEE Access</i> , 2021, 9, 154815-154826.	4.2	0
26	Design and Optimization of a Full-Generation System for Marine LNG Cold Energy Cascade Utilization. <i>Journal of Thermal Science</i> , 2020, 29, 587-596.	1.9	16
27	Transient simulation of porous cathodes of zinc-nickel single-flow batteries based on lattice Boltzmann method. <i>Journal of Energy Storage</i> , 2020, 32, 101937.	8.1	5
28	Pore-scale investigation on ion transport and transfer resistance in charged porous media with micro-macro structure. <i>Journal of Molecular Liquids</i> , 2020, 320, 114481.	4.9	3
29	Effect of Nanofluids on Boiling Heat Transfer Performance. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2818.	2.5	14
30	Effect of Stannum Ion on the Enhancement of the Charge Retention of Single-Flow Zinc-Nickel Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1813-A1818.	2.9	5
31	Sneak analysis and its applications in thermal systems. <i>Applied Thermal Engineering</i> , 2019, 149, 213-219.	6.0	5
32	Two-dimensional transient model and mechanism of the self-discharging of zinc-nickel single-flow batteries. <i>Journal of Renewable and Sustainable Energy</i> , 2019, 11, .	2.0	4
33	Optimization analysis of the internal structure of flow-assisted zinc-nickel battery driven by a propeller. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401982857.	1.6	0
34	A dynamic model for discharge research of zinc-nickel single flow battery. <i>Electrochimica Acta</i> , 2019, 307, 573-581.	5.2	20
35	Pore-scale study of dynamic ion adsorption process in porous electrodes of capacitive deionization using lattice Boltzmann method. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 769-781.	4.8	21
36	Equivalent Circuit Model Construction and Dynamic Flow Optimization Based on Zinc-Nickel Single-Flow Battery. <i>Energies</i> , 2019, 12, 582.	3.1	5

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37	Numerical Studies of Cell Stack for Zinc-Nickel Single Flow Battery. International Journal of Electrochemical Science, 2019, 14, 2160-2174.	1.3	10
38	Study on Boiling Heat Transfer of Ethylene Glycol/Deionized Water Based Al ₂ O ₃ Nanofluids Under Different Pressures. Nanoscience and Nanotechnology Letters, 2019, 11, 222-228.	0.4	2
39	Study on Th�venin Equivalent Circuit Modeling of Zinc-Nickel Single-Flow Battery. International Journal of Electrochemical Science, 2018, 13, 4455-4465.	1.3	6
40	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
41	Effects of nanoparticle types and size on boiling heat transfer performance under different pressures. AIP Advances, 2018, 8, 025005.	1.3	10
42	Equivalent circuit modeling and simulation of the zinc nickel single flow battery. AIP Advances, 2017, 7, 055112.	1.3	16
43	Experimental study on charge/discharge characteristics of zinc-nickel single-flow battery. Journal of Renewable and Sustainable Energy, 2017, 9, 054102.	2.0	6
44	Study on Electrode Potential of Zinc Nickel Single-Flow Battery during Charge. Energies, 2017, 10, 1101.	3.1	18
45	Modeling and simulation of the zinc-nickel single flow batteries based on MATLAB/Simulink. AIP Advances, 2016, 6, 125302.	1.3	9
46	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
47	Hydrodynamic Character Analysis of Natural Circulation HRSG of Blast Furnace Gas. International Journal of Heat and Technology, 2016, 34, 98-102.	0.6	0
48	HEAT TRANSFER MECHANISM IN POROUS COPPER FOAM WICK HEAT PIPES USING NANOFUIDS. International Journal of Heat and Technology, 2015, 33, 133-138.	0.6	3
49	NUMERICAL STUDY OF NATURAL CONVECTION HEAT TRANSFER IN POROUS MEDIA SQUARE CAVITY WITH MULTIPLE COLD WALLS BASED ON LBM. International Journal of Heat and Technology, 2015, 33, 69-76.	0.6	3
50	ANALYSIS OF NANOFUIDS PHASE TRANSITION IN PIPE USING THE LATTICE BOLTZMANN METHOD. International Journal of Heat and Technology, 2015, 33, 103-108.	0.6	0
51	Simulink-Based Modular Modeling of a Marine Three-Shaft Gas Turbine for Performance Study. , 2012, , .		2
52	CONTRASTING EXPERIMENTAL STUDY ON ANTI-EROSION METHODS OF BLADE FOR SMALL SATURATION STEAM TURBINE. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2006, 42, 231.	0.5	0
53	Experimental research on heat transfer and pressure drop of two configurations of pin finned-tubes in an in-line array. Journal of Thermal Science, 1994, 3, 167-172.	1.9	2
54	Analysis of entropy generation of combined heat and mass transfer in internal and external flows with the assumption of local thermodynamic equilibrium. Journal of Thermal Science, 1994, 3, 1-6.	1.9	2

#	ARTICLE	IF	CITATIONS
55	Research progress of lossless and safe storage technology for cryogenic liquid tanks. International Journal of Green Energy, 0, , 1-22.	3.8	2