

Yao Shouguang

List of Publications by Year in descending order

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | A dynamic model for discharge research of zinc-nickel single flow battery. <i>Electrochimica Acta</i> , 2019, 307, 573-581. | 5.2 | 20 |
| 6 | 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 |
| 7 | Study on Electrode Potential of Zinc Nickel Single-Flow Battery during Charge. <i>Energies</i> , 2017, 10, 1101. | 3.1 | 18 |
| 8 | Equivalent circuit modeling and simulation of the zinc nickel single flow battery. <i>AIP Advances</i> , 2017, 7, 055112. | 1.3 | 16 |
| 9 | 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 |
| 10 | Effect of Nanofluids on Boiling Heat Transfer Performance. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2818. | 2.5 | 14 |
| 11 | 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 |
| 12 | Analysis of internal reaction and mass transfer of zinc-nickel single flow battery. <i>Journal of Renewable and Sustainable Energy</i> , 2016, 8, 064102. | 2.0 | 11 |
| 13 | 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 |
| 14 | Effects of nanoparticle types and size on boiling heat transfer performance under different pressures. <i>AIP Advances</i> , 2018, 8, 025005. | 1.3 | 10 |
| 15 | Numerical Studies of Cell Stack for Zinc-Nickel Single Flow Battery. <i>International Journal of Electrochemical Science</i> , 2019, 14, 2160-2174. | 1.3 | 10 |
| 16 | Three-dimensional transient model of zinc-nickel single flow battery considering side reactions. <i>Electrochimica Acta</i> , 2021, 374, 137895. | 5.2 | 10 |
| 17 | Modeling and simulation of the zinc-nickel single flow batteries based on MATLAB/Simulink. <i>AIP Advances</i> , 2016, 6, 125302. | 1.3 | 9 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Experimental study on charge/discharge characteristics of zinc-nickel single-flow battery. <i>Journal of Renewable and Sustainable Energy</i> , 2017, 9, 054102. | 2.0 | 6 |
| 24 | Study on Th venin Equivalent Circuit Modeling of Zinc-Nickel Single-Flow Battery. <i>International Journal of Electrochemical Science</i> , 2018, 13, 4455-4465. | 1.3 | 6 |
| 25 | 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 |
| 26 | 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 |
| 27 | Sneak analysis and its applications in thermal systems. <i>Applied Thermal Engineering</i> , 2019, 149, 213-219. | 6.0 | 5 |
| 28 | Equivalent Circuit Model Construction and Dynamic Flow Optimization Based on Zinc-Nickel Single-Flow Battery. <i>Energies</i> , 2019, 12, 582. | 3.1 | 5 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | HEAT TRANSFER MECHANISM IN POROUS COPPER FOAM WICK HEAT PIPES USING NANOFUIDS. <i>International Journal of Heat and Technology</i> , 2015, 33, 133-138. | 0.6 | 3 |
| 34 | NUMERICAL STUDY OF NATURAL CONVECTION HEAT TRANSFER IN POROUS MEDIA SQUARE CAVITY WITH MULTIPLE COLD WALLS BASED ON LBM. <i>International Journal of Heat and Technology</i> , 2015, 33, 69-76. | 0.6 | 3 |
| 35 | Experimental research on heat transfer and pressure drop of two configurations of pin finned-tubes in an in-line array. <i>Journal of Thermal Science</i> , 1994, 3, 167-172. | 1.9 | 2 |
| 36 | Analysis of entropy generation of combined heat and mass transfer in internal and external flows with the assumption of local thermodynamic equilibrium. <i>Journal of Thermal Science</i> , 1994, 3, 1-6. | 1.9 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Simulink-Based Modular Modeling of a Marine Three-Shaft Gas Turbine for Performance Study. , 2012, , . | | 2 |
| 38 | 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 |
| 39 | Amelioration of boiling heat transfer by 3D deposition structure of graphene-silver hybrid nanoparticle. Energy Conversion and Management: X, 2021, 12, 100109. | 1.6 | 2 |
| 40 | 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 |
| 41 | Research progress of lossless and safe storage technology for cryogenic liquid tanks. International Journal of Green Energy, 0, , 1-22. | 3.8 | 2 |
| 42 | Influence of operation parameters and design parameters on desalination performance of Na-ion desalination battery. Ionics, 2022, 28, 1791-1807. | 2.4 | 2 |
| 43 | Study on Ion Transport Mechanism of Zinc-Nickel Single-Flow Battery with Different Porous Electrode Structures based on Lattice Boltzmann Method. Journal of the Electrochemical Society, 2022, 169, 050518. | 2.9 | 2 |
| 44 | Study on electrolyte supply strategy for energy storage system of multi zinc nickel single flow battery stack loaded with single pump. Journal of Energy Storage, 2021, 33, 102120. | 8.1 | 1 |
| 45 | Cold exergy recovery in LNG powered ships with a new integral intermediate fluid vaporizer. AIP Advances, 2021, 11, 035022. | 1.3 | 1 |
| 46 | 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 |
| 47 | Microscopic study of ion transport in the porous electrode of a desalination battery based on the lattice Boltzmann method. New Journal of Chemistry, 2022, 46, 1516-1532. | 2.8 | 1 |
| 48 | Research on the sneak circuit analysis method of a thermal system based on energy flow. Energy Science and Engineering, 2022, 10, 3358-3370. | 4.0 | 1 |
| 49 | Optimization analysis of the internal structure of flow-assisted zinc-nickel battery driven by a propeller. Advances in Mechanical Engineering, 2019, 11, 168781401982857. | 1.6 | 0 |
| 50 | Preparation and electrochemical performance of Mn and Al Co-doped nickel hydroxide. Ionics, 2021, 27, 3041-3049. | 2.4 | 0 |
| 51 | 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 |
| 52 | 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 |
| 53 | Hydrodynamic Character Analysis of Natural Circulation HRSG of Blast Furnace Gas. International Journal of Heat and Technology, 2016, 34, 98-102. | 0.6 | 0 |
| 54 | Sneak Analysis Based on Energy Flow in Thermal Systems With Recirculation Structure. IEEE Access, 2021, 9, 154815-154826. | 4.2 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Analysis and Prediction of Flow-Induced Vibration of Convection Pipe for 200 t/h D Type Gas Boiler. Axioms, 2022, 11, 163. | 1.9 | 0 |