# Hamidreza Behi

List of Publications by Year
in descending order

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| 34 | 1,454 | 393982 | 454577 |
|---|---|---|---|
| papers | citations | 19 h-index | 30 g-index |

| 34 | 34 | 34 | 532 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A new concept of thermal management system in Li-ion battery using air cooling and heat pipe for electric vehicles. Applied Thermal Engineering, 2020, 174, 115280. | 3.0 | 182 |
| 2 | Investigation of PCM-assisted heat pipe for electronic cooling. Applied Thermal Engineering, 2017, 127, 1132-1142. | 3.0 | 145 |
| 3 | A comparative study between air cooling and liquid cooling thermal management systems for a high-energy lithium-ion battery module. Applied Thermal Engineering, 2021, 198, 117503. | 3.0 | 122 |
| 4 | Thermal management analysis using heat pipe in the high current discharging of lithium-ion battery in electric vehicles. Journal of Energy Storage, 2020, 32, 101893. | 3.9 | 109 |
| 5 | Online health diagnosis of lithium-ion batteries based on nonlinear autoregressive neural network. Applied Energy, 2021, 282, 116159. | 5.1 | 94 |
| 6 | Heat pipe air-cooled thermal management system for lithium-ion batteries: High power applications. Applied Thermal Engineering, 2021, 183, 116240. | 3.0 | 75 |
| 7 | Developing an online data-driven approach for prognostics and health management of lithium-ion batteries. Applied Energy, 2022, 308, 118348. | 5.1 | 70 |
| 8 | PCM assisted heat pipe cooling system for the thermal management of an LTO cell for high-current profiles. Case Studies in Thermal Engineering, 2021, 25, 100920. | 2.8 | 68 |
| 9 | Novel thermal management methods to improve the performance of the Li-ion batteries in high discharge current applications. Energy, 2021, 224, 120165. | 4.5 | 57 |
| 10 | A compact and optimized liquid-cooled thermal management system for high power lithium-ion capacitors. Applied Thermal Engineering, 2021, 185, 116449. | 3.0 | 50 |
| 11 | Evaluation of a novel solar driven sorption cooling/heating system integrated with PCM storage compartment. Energy, 2018, 164, 449-464. | 4.5 | 49 |
| 12 | Thermal performance enhancement of phase change material using aluminum-mesh grid foil for lithium-capacitor modules. Journal of Energy Storage, 2020, 30, 101508. | 3.9 | 48 |
| 13 | Comprehensive Passive Thermal Management Systems for Electric Vehicles. Energies, 2021, 14, 3881. | 1.6 | 45 |
| 14 | A hybrid thermal management system for high power lithium-ion capacitors combining heat pipe with phase change materials. Heliyon, 2021, 7, e07773. | 1.4 | 34 |
| 15 | Lithium-Ion Capacitor Lifetime Extension through an Optimal Thermal Management System for Smart Grid Applications. Energies, 2021, 14, 2907. | 1.6 | 29 |
| 16 | Enhancement of the Thermal Energy Storage Using Heat-Pipe-Assisted Phase Change Material. Energies, 2021, 14, 6176. | 1.6 | 28 |
| 17 | Advanced hybrid thermal management system for LTO battery module under fast charging. Case Studies in Thermal Engineering, 2022, 33, 101938. | 2.8 | 27 |
| 18 | Performance assessment of a natural gas expansion plant integrated with a vertical ground-coupled heat pump. Energy, 2015, 93, 2503-2517. | 4.5 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Thermal Concept Design of MOSFET Power Modules in Inverter Subsystems for Electric Vehicles. , 2019, , . | | 25 |
| 20 | Twinâ€model framework development for a comprehensive battery lifetime prediction validated with a realistic driving profile. Energy Science and Engineering, 2021, 9, 2191-2201. | 1.9 | 21 |
| 21 | Holistic 1D Electro-Thermal Model Coupled to 3D Thermal Model for Hybrid Passive Cooling System Analysis in Electric Vehicles. Energies, 2021, 14, 5924. | 1.6 | 20 |
| 22 | A Comprehensive Review of Lithium-Ion Capacitor Technology: Theory, Development, Modeling, Thermal Management Systems, and Applications. Molecules, 2022, 27, 3119. | 1.7 | 17 |
| 23 | A New Concept of Air Cooling and Heat Pipe for Electric Vehicles in Fast Discharging. Energies, 2021, 14, 6477. | 1.6 | 16 |
| 24 | Aluminum Heat Sink Assisted Air-Cooling Thermal Management System for High Current Applications in Electric Vehicles. , 2020, , . | | 12 |
| 25 | An Experimental Study on Thermal Performance of Graphite-Based Phase-Change Materials for High-Power Batteries. Energies, 2022, 15, 2515. | 1.6 | 12 |
| 26 | Reliability evaluation of Li-ion batteries for electric vehicles applications from the thermal perspectives. , 2021, , 563-587. | | 11 |
| 27 | A Novel Air-Cooled Thermal Management Approach towards High-Power Lithium-Ion Capacitor Module for Electric Vehicles. Energies, 2021, 14, 7150. | 1.6 | 11 |
| 28 | Optimization of 1D/3D Electro-Thermal Model for Liquid-Cooled Lithium-Ion Capacitor Module in High Power Applications. Electricity, 2021, 2, 503-523. | 1.4 | 11 |
| 29 | Effects analysis on energy density optimization and thermal efficiency enhancement of the air-cooled Li-ion battery modules. Journal of Energy Storage, 2022, 48, 103847. | 3.9 | 11 |
| 30 | Experimental and numerical analysis of holistic active and passive thermal management systems for electric vehicles: Fast charge and discharge applications. Results in Engineering, 2022, 15, 100486. | 2.2 | 11 |
| 31 | Novel Hybrid Thermal Management System for High-Power Lithium-Ion Module for Electric Vehicles: Fast Charging Applications. World Electric Vehicle Journal, 2022, 13, 86. | 1.6 | 8 |
| 32 | Effects of Structural Substituents on the Electrochemical Decomposition of Carbonyl Derivatives and Formation of the Solidâ€“Electrolyte Interphase in Lithium-Ion Batteries. Energies, 2021, 14, 7352. | 1.6 | 6 |
| 33 | Advanced Thermal Management Systems for High-Power Lithium-Ion Capacitors: A Comprehensive Review. Designs, 2022, 6, 53. | 1.3 | 5 |
| 34 | Novel and Environmental Friendly Design Optimization for Battery Thermal Management System. , 2021, , . | | 0 |