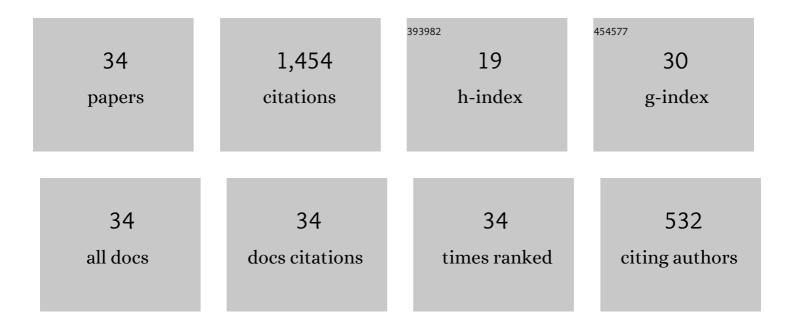
## Hamidreza Behi

List of Publications by Year in descending order

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#	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

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#	Article	IF	CITATIONS
19	Thermal Concept Design of MOSFET Power Modules in Inverter Subsystems for Electric Vehicles. , 2019, , .		25
20	Twinâ€nodel 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 Solid–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