Manh-Kien Tran

List of Publications by Year
in descending order

24 papers	1,740 citations	331259 21 h-index	610482 24 g-index
24 all docs	24 docs citations	24 times ranked	756 citing authors

#	Article	IF	Citations
1	<scp>Python‐based scikit‐learn</scp> machine learning models for thermal and electrical performance prediction of <scp>high‐capacity</scp> lithium‐ion battery. International Journal of Energy Research, 2022, 46, 786-794.	2.2	73
2	Improving thermal performance of battery at high current rate by using embedded heat pipe system. Journal of Energy Storage, 2022, 46, 103809.	3.9	19
3	Concept Review of a Cloud-Based Smart Battery Management System for Lithium-Ion Batteries: Feasibility, Logistics, and Functionality. Batteries, 2022, 8, 19.	2.1	116
4	A Review of Lithium-Ion Battery Thermal Runaway Modeling and Diagnosis Approaches. Processes, 2022, 10, 1192.	1.3	79
5	A novel heat dissipation structure based on flat heat pipe for battery thermal management system. International Journal of Energy Research, 2022, 46, 15961-15980.	2.2	79
6	Macro-Level optimization of hydrogen infrastructure and supply chain for zero-emission vehicles on a canadian corridor. Journal of Cleaner Production, 2021, 289, 125163.	4.6	36
7	A Review of Range Extenders in Battery Electric Vehicles: Current Progress and Future Perspectives. World Electric Vehicle Journal, 2021, 12, 54.	1.6	106
8	One dimensional fast computational partial differential model for heat transfer in lithium-ion batteries. Journal of Energy Storage, 2021, 37, 102471.	3.9	51
9	A Review of Heavy-Duty Vehicle Powertrain Technologies: Diesel Engine Vehicles, Battery Electric Vehicles, and Hydrogen Fuel Cell Electric Vehicles. Clean Technologies, 2021, 3, 474-489.	1.9	114
10	Comparative Study of Equivalent Circuit Models Performance in Four Common Lithium-Ion Batteries: LFP, NMC, LMO, NCA. Batteries, 2021, 7, 51.	2.1	126
11	A Novel Semi-Supervised Fuzzy C-Means Clustering Algorithm Using Multiple Fuzzification Coefficients. Algorithms, 2021, 14, 258.	1.2	7
12	Health Cost Estimation of Traffic-Related Air Pollution and Assessing the Pollution Reduction Potential of Zero-Emission Vehicles in Toronto, Canada. Energies, 2021, 14, 4956.	1.6	6
13	A comprehensive equivalent circuit model for lithium-ion batteries, incorporating the effects of state of health, state of charge, and temperature on model parameters. Journal of Energy Storage, 2021, 43, 103252.	3.9	149
14	Design of a Hybrid Electric Vehicle Powertrain for Performance Optimization Considering Various Powertrain Components and Configurations. Vehicles, 2021, 3, 20-32.	1.7	85
15	Soft Sensors for State of Charge, State of Energy, and Power Loss in Formula Student Electric Vehicle. Applied System Innovation, 2021, 4, 78.	2.7	66
16	Investigation of Individual Cells Replacement Concept in Lithium-Ion Battery Packs with Analysis on Economic Feasibility and Pack Design Requirements. Processes, 2021, 9, 2263.	1.3	65
17	Effect of integrating the hysteresis component to the equivalent circuit model of Lithium-ion battery for dynamic and non-dynamic applications. Journal of Energy Storage, 2020, 32, 101785.	3.9	77
18	A Review of Methane Gas Detection Sensors: Recent Developments and Future Perspectives. Inventions, 2020, 5, 28.	1.3	91

#	Article	IF	Citations
19	Environmental and Economic Benefits of a Battery Electric Vehicle Powertrain with a Zinc–Air Range Extender in the Transition to Electric Vehicles. Vehicles, 2020, 2, 398-412.	1.7	24
20	Fuzzy C-Means Clustering Algorithm with Multiple Fuzzification Coefficients. Algorithms, 2020, 13, 158.	1.2	25
21	Mathematical Heat Transfer Modeling and Experimental Validation of Lithium-Ion Battery Considering: Tab and Surface Temperature, Separator, Electrolyte Resistance, Anode-Cathode Irreversible and Reversible Heat. Batteries, 2020, 6, 61.	2.1	74
22	A Review of Lithium-Ion Battery Fault Diagnostic Algorithms: Current Progress and Future Challenges. Algorithms, 2020, 13, 62.	1.2	147
23	Sensor Fault Detection and Isolation for Degrading Lithium-Ion Batteries in Electric Vehicles Using Parameter Estimation with Recursive Least Squares. Batteries, 2020, 6, 1.	2.1	55
24	High Reynold's Number Turbulent Model for Micro-Channel Cold Plate Using Reverse Engineering Approach for Water-Cooled Battery in Electric Vehicles. Energies, 2020, 13, 1638.	1.6	70