

# Manh-Kien Tran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2364375/publications.pdf>

Version: 2024-02-01

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	A comprehensive equivalent circuit model for lithium-ion batteries, incorporating the effects of state of health, state of charge, and temperature on model parameters. <i>Journal of Energy Storage</i> , 2021, 43, 103252.	3.9	149
2	A Review of Lithium-Ion Battery Fault Diagnostic Algorithms: Current Progress and Future Challenges. <i>Algorithms</i> , 2020, 13, 62.	1.2	147
3	Comparative Study of Equivalent Circuit Models Performance in Four Common Lithium-Ion Batteries: LFP, NMC, LMO, NCA. <i>Batteries</i> , 2021, 7, 51.	2.1	126
4	Concept Review of a Cloud-Based Smart Battery Management System for Lithium-Ion Batteries: Feasibility, Logistics, and Functionality. <i>Batteries</i> , 2022, 8, 19.	2.1	116
5	A Review of Heavy-Duty Vehicle Powertrain Technologies: Diesel Engine Vehicles, Battery Electric Vehicles, and Hydrogen Fuel Cell Electric Vehicles. <i>Clean Technologies</i> , 2021, 3, 474-489.	1.9	114
6	A Review of Range Extenders in Battery Electric Vehicles: Current Progress and Future Perspectives. <i>World Electric Vehicle Journal</i> , 2021, 12, 54.	1.6	106
7	A Review of Methane Gas Detection Sensors: Recent Developments and Future Perspectives. <i>Inventions</i> , 2020, 5, 28.	1.3	91
8	Design of a Hybrid Electric Vehicle Powertrain for Performance Optimization Considering Various Powertrain Components and Configurations. <i>Vehicles</i> , 2021, 3, 20-32.	1.7	85
9	A Review of Lithium-Ion Battery Thermal Runaway Modeling and Diagnosis Approaches. <i>Processes</i> , 2022, 10, 1192.	1.3	79
10	A novel heat dissipation structure based on flat heat pipe for battery thermal management system. <i>International Journal of Energy Research</i> , 2022, 46, 15961-15980.	2.2	79
11	Effect of integrating the hysteresis component to the equivalent circuit model of Lithium-ion battery for dynamic and non-dynamic applications. <i>Journal of Energy Storage</i> , 2020, 32, 101785.	3.9	77
12	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. <i>Batteries</i> , 2020, 6, 61.	2.1	74
13	Python-based scikit-learn machine learning models for thermal and electrical performance prediction of high-capacity lithium-ion battery. <i>International Journal of Energy Research</i> , 2022, 46, 786-794.	2.2	73
14	High Reynolds Number Turbulent Model for Micro-Channel Cold Plate Using Reverse Engineering Approach for Water-Cooled Battery in Electric Vehicles. <i>Energies</i> , 2020, 13, 1638.	1.6	70
15	Soft Sensors for State of Charge, State of Energy, and Power Loss in Formula Student Electric Vehicle. <i>Applied System Innovation</i> , 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. <i>Processes</i> , 2021, 9, 2263.	1.3	65
17	Sensor Fault Detection and Isolation for Degrading Lithium-Ion Batteries in Electric Vehicles Using Parameter Estimation with Recursive Least Squares. <i>Batteries</i> , 2020, 6, 1.	2.1	55
18	One dimensional fast computational partial differential model for heat transfer in lithium-ion batteries. <i>Journal of Energy Storage</i> , 2021, 37, 102471.	3.9	51

#	ARTICLE	IF	CITATIONS
19	Macro-Level optimization of hydrogen infrastructure and supply chain for zero-emission vehicles on a canadian corridor. <i>Journal of Cleaner Production</i> , 2021, 289, 125163.	4.6	36
20	Fuzzy C-Means Clustering Algorithm with Multiple Fuzzification Coefficients. <i>Algorithms</i> , 2020, 13, 158.	1.2	25
21	Environmental and Economic Benefits of a Battery Electric Vehicle Powertrain with a Zinc-Air Range Extender in the Transition to Electric Vehicles. <i>Vehicles</i> , 2020, 2, 398-412.	1.7	24
22	Improving thermal performance of battery at high current rate by using embedded heat pipe system. <i>Journal of Energy Storage</i> , 2022, 46, 103809.	3.9	19
23	A Novel Semi-Supervised Fuzzy C-Means Clustering Algorithm Using Multiple Fuzzification Coefficients. <i>Algorithms</i> , 2021, 14, 258.	1.2	7
24	Health Cost Estimation of Traffic-Related Air Pollution and Assessing the Pollution Reduction Potential of Zero-Emission Vehicles in Toronto, Canada. <i>Energies</i> , 2021, 14, 4956.	1.6	6