

Maroun Nemer

List of Publications by Year in descending order

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papers

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32
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Topology Optimization of Heat and Mass Transfer Problems: Laminar Flow. Numerical Heat Transfer, Part B: Fundamentals, 2013, 63, 508-539.	0.9	75
2	Dynamic modeling and simulation of an Isobaric Adiabatic Compressed Air Energy Storage (IA-CAES) system. Journal of Energy Storage, 2017, 11, 178-190.	8.1	70
3	Topology Optimization Using the SIMP Method for Multiobjective Conductive Problems. Numerical Heat Transfer, Part B: Fundamentals, 2012, 61, 439-470.	0.9	63
4	Comprehensive energy modeling methodology for battery electric buses. Energy, 2020, 207, 118241.	8.8	48
5	Exergy analysis and exergoeconomic optimization of a constant-pressure adiabatic compressed air energy storage system. Journal of Energy Storage, 2017, 14, 192-202.	8.1	47
6	Frosting modeling on a cold flat plate: Comparison of the different assumptions and impacts on frost growth predictions. International Journal of Refrigeration, 2016, 69, 340-360.	3.4	45
7	Assessing additional fuel consumption from cabin thermal comfort and auxiliary needs on the worldwide harmonized light vehicles test cycle. Transportation Research, Part D: Transport and Environment, 2018, 62, 139-151.	6.8	36
8	Performance assessment of first generation oxy-coal power plants through an exergy-based process integration methodology. Energy, 2014, 69, 272-284.	8.8	34
9	Brayton cycles as waste heat recovery systems on series hybrid electric vehicles. Energy Conversion and Management, 2018, 168, 200-214.	9.2	30
10	Towards Second Generation Oxy-pulverized Coal Power Plants: Energy Penalty Reduction Potential of Pressurized Oxy-combustion Systems. Energy Procedia, 2014, 63, 431-439.	1.8	29
11	Energy consumption and battery sizing for different types of electric bus service. Energy, 2022, 239, 122454.	8.8	25
12	Static and Dynamic Modeling Comparison of an Adiabatic Compressed Air Energy Storage System. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	23
13	Modeling of a fan-supplied flat-tube heat exchanger exposed to non-uniform frost growth. International Journal of Refrigeration, 2017, 75, 129-140.	3.4	15
14	Comparative Study of Various Constant-Pressure Compressed Air Energy Storage Systems Based on Energy and Exergy Analysis. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	15
15	Topology optimization of heat and mass transfer problems in two fluidsâ€”one solid domains. Numerical Heat Transfer, Part B: Fundamentals, 2019, 76, 130-151.	0.9	14
16	Evaluation of the techno-economic performance of battery electric buses: Case study of a bus line in paris. Research in Transportation Economics, 2022, 95, 101207.	4.1	12
17	Optimization of Battery Electric Bus Charging under Varying Operating Conditions. , 2020, , .		8
18	Optimization of Radiant Heater Power for Heating of Flat Plates Using Metaheuristic Methods. Numerical Heat Transfer; Part A: Applications, 2011, 59, 503-520.	2.1	7

#	ARTICLE	IF	CITATIONS
19	Cabin Thermal Needs: Modeling and Assumption Analysis. , 2017, , .		7
20	Experimental Validation of the Multiple Absorption Coefficient Zonal Method (MACZM) in a Dynamic Modeling of a Steel Reheating Furnace. Numerical Heat Transfer; Part A: Applications, 2010, 58, 545-563.	2.1	6
21	An Efficient CPU-GPU Implementation of the Multiple Absorption Coefficient Zonal Method (MACZM). Numerical Heat Transfer, Part B: Fundamentals, 2012, 62, 439-461.	0.9	4
22	Inverse Estimation of Gray-Band Emissivity in a Three-Dimensional Enclosure Using Combined Simulated Annealing and Replating Algorithm. Numerical Heat Transfer; Part A: Applications, 2015, 68, 268-287.	2.1	4
23	Technological analysis and fuel consumption saving potential of different gas turbine thermodynamic configurations for series hybrid electric vehicles. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2020, 234, 1544-1562.	1.9	4
24	Assessing the Charging Load of Battery Electric Bus Fleet for Different Types of Charging Infrastructure. , 2021, , .		3
25	Optimal Integration of the Flue Gas Heat for the Minimization of the Energy Penalty of Oxy-fired Power Plants. Energy Procedia, 2014, 63, 7359-7366.	1.8	2
26	Dynamic Modeling and Fuel Consumption Potential of an Intercooled Regenerative Reheat Gas Turbine Auxiliary Power Unit on Series Hybrid Electric Vehicle. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	2.3	2
27	Real Time Dynamic Programming Control of Rapid Thermal Processing Furnaces. Numerical Heat Transfer; Part A: Applications, 2013, 64, 920-937.	2.1	0
28	The Nonrecursive Plating Algorithm (NRPA) for Computing the Total Radiative Exchange Factors in Enclosures. Numerical Heat Transfer, Part B: Fundamentals, 2014, 66, 109-132.	0.9	0
29	Techno-economic Optimization of First Generation Oxy-fired Pulverized-coal Power Plant. Energy Procedia, 2017, 114, 490-500.	1.8	0
30	Energy Analysis of City and Intercity Electric Buses and their Battery Size Requirements. , 2021, , .		0
31	Methodology for TurboGenerator Systems Optimization in Electrified Powertrains. Mechanisms and Machine Science, 2022, , 239-266.	0.5	0
32	Study of a Gas Turbine Cycle to Boost the Autonomy of Electric Cars. Energies, 2022, 15, 3348.	3.1	0