Multi-objective optimization of an automotive louvered fin-flat tube condenser for enhancing HVAC system cooling performance

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#	Paper	IF	Citations
20	A Novel DoE based Front-End Airflow Target Setting Approach for Optimum HVAC Cool Down Performance. **2018**,		0
19	Experimental study of condensation heat transfer in a condenser with a liquid-vapor separator. *Applied Thermal Engineering*, **2019**, 152, 196-203	5.8	6
18	An optimized ANN for the performance prediction of an automotive air conditioning system. *Science and Technology for the Built Environment*, **2019**, 25, 282-296	1.8	8
17	Experimental Investigations on the Performance Enhancement Using Minichannel Evaporator with Integrated Receiver-Dryer Condenser in an Automotive Air Conditioning System. *Heat Transfer Engineering*, **2019**, 40, 667-678	1.7	8
16	Research on the air-side thermal hydraulic performance of louvered fin and flat tube heat exchangers under low-pressure environment. *Experimental Heat Transfer*, **2020**, 33, 81-99	2.4	9
15	A novel comparative approach on inverse heat transfer analysis of an experimental setup of an extended surface. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104822	5.8	2
14	Review of Cabin Thermal Management for Electrified Passenger Vehicles. *IEEE Transactions on Vehicular Technology*, **2020**, 69, 6025-6040	6.8	16
13	Design and performance optimization of microchannel condensers for electric vehicles. *International Journal of Energy Research*, **2021**, 45, 10912-10923	4.5	
12	Multiejector CO2 cooling system with evaporative gascooler for a supermarket application in tropical regions. *Applied Thermal Engineering*, **2021**, 190, 116766	5.8	2
11	Investigation on heat transfer characteristics of outside heat exchanger in an air conditioning heat pump system for electric vehicles. *International Journal of Heat and Mass Transfer*, **2021**, 170, 121040	4.9	2
10	Performance assessment of a range-extended electric vehicle under real driving conditions using novel PCM-based HVAC system. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101527	4.7	1
9	Performance of a Flat-Tube Louvered-Fin Automotive Condenser with R1234yf. **2021**, 29, 2150002		
8	Performance analysis of a degraded PEM fuel cell stack for hydrogen passenger vehicles based on machine learning algorithms in real driving conditions. *Energy Conversion and Management*, **2021**, 248, 114793	10.6	10
7	Modeling and Performance Optimization of Louvered Fin Radiators in Negative Gauge Pressure Condition. *Advanced Theory and Simulations*, 2100463	3.5	1
6	Analysis of air conditioning system impact on a fuel cell vehicle performance based on a realistic model under actual urban conditions. *International Journal of Hydrogen Energy*, **2022**,	6.7	0
5	Quality Study on Vehicle Heat Ventilation and Air Conditioning Failure. *Sustainability*, **2021**, 13, 13441	3.6	
4	Experimental research on refrigeration performance of air conditioning system of pure electric passenger cars with economizer. *Thermal Science*, **2022**, 26, 2599-2605	1.2	

3	Numerical analysis and correlation of thermohydraulic characteristics of louvered fin-tube heat exchanger. **2022**,	0
2	Comparative lifecycle assessment of hydrogen fuel cell, electric, CNG, and gasoline-powered vehicles under real driving conditions. **2022**,	1
1	Effects of Rectangular Wing Vortex Generators on the Thermal-Hydraulic Performance of Louvered Fin and Flat Tube Heat Exchanger. **2023**, 32, 628-642	0