Mehran Hashemian

List of Publications by Year
in descending order

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20 papers	742 citations	430874 18 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	296 citing authors

#	Article	IF	Citations
1	Feasibility and optimal operation of micro energy hybrid system (hydro/wind) in the rural valley region. International Journal of Low-Carbon Technologies, 2022, 17, 58-68.	2.6	18
2	Design-eligibility study of solar thermal helically coiled heat exchanging system with annular dimples by irreversibility concept. Renewable Energy, 2022, 183, 369-384.	8.9	27
3	Thermal-hydrodynamic and exergetic study of two-phase flow in helically coiled pipe with helical wire insert. Case Studies in Thermal Engineering, 2022, 30, 101718.	5.7	16
4	Efficient heat extraction from the storage zone of solar pond by structurally improved spiral pipes; numerical simulation/experimental validation. Energy Reports, 2022, 8, 7386-7400.	5.1	11
5	A complete energetic and exergetic analysis of a solar powered trigeneration system with two novel organic Rankine cycle (ORC) configurations. Journal of Cleaner Production, 2021, 281, 124552.	9.3	76
6	Economic and environmental assessment using emergy of a geothermal power plant. Energy Conversion and Management, 2021, 228, 113666.	9.2	47
7	Thermal, frictional and exergetic analysis of non-parallel configurations for plate heat exchangers. Chemical Engineering and Processing: Process Intensification, 2021, 161, 108319.	3.6	30
8	CFD-based irreversibility analysis of avant-garde semi-O/O-shape grooving fashions of solar pond heat trade-off unit. Renewable Energy, 2021, 171, 328-343.	8.9	42
9	PEM fuel cell cathode-side flow field design optimization based on multi-criteria analysis of liquid-slug dynamics. Journal of Industrial and Engineering Chemistry, 2021, 98, 397-412.	5.8	39
10	Entropic analysis of a double helical tube heat exchanger including circular depressions on both inner and outer tube. Case Studies in Thermal Engineering, 2021, 26, 101053.	5.7	34
11	Thermal/frictional performance of spiral pipe with ring-shape depression used as in-pond heat exchanger. Solar Energy, 2021, 224, 742-756.	6.1	30
12	Entropy generation and sensitivity analysis of R134a flow condensation inside a helically coiled tube-in-tube heat exchanger. International Journal of Refrigeration, 2021, 130, 104-116.	3.4	28
13	Inducing swirl flow inside the pipes of flat-plate solar collector by using multiple nozzles for enhancing thermal performance. Renewable Energy, 2021, 180, 1344-1357.	8.9	36
14	A critique of effectiveness concept for heat exchangers; theoretical-experimental study. International Journal of Heat and Mass Transfer, 2020, 159, 120160.	4.8	27
15	Thermal-exergetic behavior of triangular vortex generators through the cylindrical tubes. International Journal of Heat and Mass Transfer, 2020, 151, 119406.	4.8	31
16	A comprehensive second law analysis of coil side air injection in the shell and coiled tube heat exchanger: An experimental study. Applied Thermal Engineering, 2019, 150, 80-87.	6.0	51
17	Enhancement of heat transfer rate with structural modification of double pipe heat exchanger by changing cylindrical form of tubes into conical form. Applied Thermal Engineering, 2017, 118, 408-417.	6.0	54
18	A comprehensive numerical study on multi-criteria design analyses in a novel form (conical) of double pipe heat exchanger. Applied Thermal Engineering, 2016, 102, 1228-1237.	6.0	41

#	Article	IF	Citations
19	A comprehensive second law analysis for tube-in-tube helically coiled heat exchangers. Experimental Thermal and Fluid Science, 2016, 76, 118-125.	2.7	41
20	The effect of flow, thermodynamic and geometrical characteristics on exergy loss in shell and coiled tube heat exchangers. Energy, 2015, 91, 678-684.	8.8	63