Hossein Arasteh

List of Publications by Year
in descending order

25 papers	848 citations	430442 18 h-index	580395 25 g-index
25 all docs	25 docs citations	25 times ranked	672 citing authors

#	Article	IF	Citations
1	Heat and fluid flow analysis of metal foam embedded in a double-layered sinusoidal heat sink under local thermal non-equilibrium condition using nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1461-1476.	2.0	104
2	Two-phase investigation of water-Al_2O_3 nanofluid in a micro concentric annulus under non-uniform heat flux boundary conditions. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 1795-1814.	1.6	99
3	Optimal arrangements of a heat sink partially filled with multilayered porous media employing hybrid nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1045-1058.	2.0	91
4	Turbulent flows in a spiral double-pipe heat exchanger. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 39-53.	1.6	79
5	Heat transfer enhancement in a counter-flow sinusoidal parallel-plate heat exchanger partially filled with porous media using metal foam in the channels' divergent sections. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1669-1685.	2.0	50
6	Energy analysis of a proton exchange membrane fuel cell (PEMFC) with an open-ended anode using agglomerate model: A CFD study. Energy, 2019, 188, 116090.	4.5	45
7	Energy and exergy analysis and optimization of helically grooved shell and tube heat exchangers by using Taguchi experimental design. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3151-3164.	2.0	44
8	Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122456.	1.2	39
9	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e818" altimg="si2.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e826" altimg="si3.svg"><mml:msub><mml:mrow	1.4	38
10	Energy and exergy analysis and optimization of a gas turbine cycle coupled by a bottoming organic Rankine cycle. Journal of Thermal Analysis and Calorimetry, 2020, 141, 495-510.	2.0	24
11	Thermohydraulic analysis of hybrid nanofluid in a multilayered copper foam heat sink employing local thermal non-equilibrium condition: Optimization of layers thickness. Applied Thermal Engineering, 2020, 181, 115961.	3.0	24
12	Effect of pitch distance of rotational twisted tape on the heat transfer and fluid flow characteristics. International Journal of Thermal Sciences, 2021, 170, 106966.	2.6	24
13	Thermo-Hydraulic Performance Analysis on the Effects of Truncated Twisted Tape Inserts in a Tube Heat Exchanger. Symmetry, 2020, 12, 1652.	1.1	23
14	Optimizing the hydrothermal performance of helically corrugated coiled tube heat exchangers using Taguchi's empirical method: energy and exergy analysis. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2741-2752.	2.0	23
15	Optimal distribution of metal foam inserts in a double-pipe heat exchanger. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1322-3142.	1.6	22
16	Simulation of blood flow in arteries with aneurysm: Lattice Boltzmann Approach (LBM). Computer Methods and Programs in Biomedicine, 2020, 187, 105312.	2.6	22
17	Thermal performance of a helical shell and tube heat exchanger without fin, with circular fins, and with V-shaped circular fins applying on the coil. Journal of Thermal Analysis and Calorimetry, 2021, 143, 4273-4285.	2.0	22
18	Heat Transfer Enhancement of Nanofluid Flow in a Tube Equipped with Rotating Twisted Tape Inserts: A Two-Phase Approach. Heat Transfer Engineering, 2022, 43, 608-622.	1.2	21

#	Article	IF	Citations
19	Investigation of Overlapped Twisted Tapes Inserted in a Double-Pipe Heat Exchanger Using Two-Phase Nanofluid. Nanomaterials, 2020, 10, 1656.	1.9	14
20	Locally weighted moving regression: A non-parametric method for modeling nanofluid features of dynamic viscosity. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124124.	1.2	8
21	Optimization of FX-70 refrigerant evaporative heat transfer and fluid flow characteristics inside the corrugated tubes using multi-objective genetic algorithm. Chinese Journal of Chemical Engineering, 2020, 28, 2142-2151.	1.7	8
22	Transition simulation of two-phase intermittent slug flow characteristics in oil and gas pipelines. International Communications in Heat and Mass Transfer, 2020, 113, 104534.	2.9	8
23	Hydrothermal performance analysis of various surface roughness configurations in trapezoidal microchannels at slip flow regime. Chinese Journal of Chemical Engineering, 2020, 28, 1522-1532.	1.7	8
24	Numerical simulation of a falling droplet surrounding by air under electric field using VOF method: A CFD study. Chinese Journal of Chemical Engineering, 2020, 28, 2977-2984.	1.7	6
25	Experimental visualization and analysis of transient heat and mass transfer during natural dehumidification of air around square finned tubes under various operating conditions. Energy Conversion and Management, 2022, 255, 115295.	4.4	2