

# Hossein Arasteh

## List of Publications by Citations

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25  
papers

493  
citations

13  
h-index

22  
g-index

25  
ext. papers

672  
ext. citations

4.4  
avg, IF

4.59  
L-index

#	Paper	IF	Citations
25	Optimal arrangements of a heat sink partially filled with multilayered porous media employing hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 137, 1045-1058	4.1	78
24	Turbulent flows in a spiral double-pipe heat exchanger. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 39-53	4.5	59
23	Heat and fluid flow analysis of metal foam embedded in a double-layered sinusoidal heat sink under local thermal non-equilibrium condition using nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 1461-1476	4.1	52
22	Two-phase investigation of water-Al <sub>2</sub> O <sub>3</sub> nanofluid in a micro concentric annulus under non-uniform heat flux boundary conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 1795-1814	4.5	41
21	Energy analysis of a proton exchange membrane fuel cell (PEMFC) with an open-ended anode using agglomerate model: A CFD study. <i>Energy</i> , <b>2019</b> , 188, 116090	7.9	28
20	Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 535, 122456	3.3	28
19	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. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 1669-1685	4.1	26
18	Heat transfer enhancement of Water-Al <sub>2</sub> O <sub>3</sub> nanofluid in an oval channel equipped with two rows of twisted conical strip inserts in various directions: A two-phase approach. <i>Computers and Mathematics With Applications</i> , <b>2020</b> , 79, 2203-2215	2.7	25
17	Energy and exergy analysis and optimization of helically grooved shell and tube heat exchangers by using Taguchi experimental design. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 3151-3164	4.1	21
16	Thermo-Hydraulic Performance Analysis on the Effects of Truncated Twisted Tape Inserts in a Tube Heat Exchanger. <i>Symmetry</i> , <b>2020</b> , 12, 1652	2.7	17
15	Energy and exergy analysis and optimization of a gas turbine cycle coupled by a bottoming organic Rankine cycle. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 141, 495-510	4.1	17
14	Thermohydraulic analysis of hybrid nanofluid in a multilayered copper foam heat sink employing local thermal non-equilibrium condition: Optimization of layers thickness. <i>Applied Thermal Engineering</i> , <b>2020</b> , 181, 115961	5.8	16
13	Optimal distribution of metal foam inserts in a double-pipe heat exchanger. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 29, 1322-3142	4.5	15
12	Simulation of blood flow in arteries with aneurysm: Lattice Boltzmann Approach (LBM). <i>Computer Methods and Programs in Biomedicine</i> , <b>2020</b> , 187, 105312	6.9	10
11	Optimizing the hydrothermal performance of helically corrugated coiled tube heat exchangers using Taguchi's empirical method: energy and exergy analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 145, 2741	4.1	9
10	Investigation of Overlapped Twisted Tapes Inserted in a Double-Pipe Heat Exchanger Using Two-Phase Nanofluid. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	9
9	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. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 143, 4273-4285	4.1	9

8	Transition simulation of two-phase intermittent slug flow characteristics in oil and gas pipelines. <i>International Communications in Heat and Mass Transfer</i> , <b>2020</b> , 113, 104534	5.8	6
7	Locally weighted moving regression: A non-parametric method for modeling nanofluid features of dynamic viscosity. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2020</b> , 550, 124124	3.3	6
6	Effect of pitch distance of rotational twisted tape on the heat transfer and fluid flow characteristics. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 170, 106966	4.1	6
5	Hydrothermal performance analysis of various surface roughness configurations in trapezoidal microchannels at slip flow regime. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 28, 1522-1532	3.2	5
4	Optimization of FX-70 refrigerant evaporative heat transfer and fluid flow characteristics inside the corrugated tubes using multi-objective genetic algorithm. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 28, 2142-2151	3.2	4
3	Heat Transfer Enhancement of Nanofluid Flow in a Tube Equipped with Rotating Twisted Tape Inserts: A Two-Phase Approach. <i>Heat Transfer Engineering</i> , <b>2022</b> , 1-18	1.7	4
2	Numerical simulation of a falling droplet surrounding by air under electric field using VOF method: A CFD study. <i>Chinese Journal of Chemical Engineering</i> , <b>2020</b> , 28, 2977-2984	3.2	2
1	Experimental visualization and analysis of transient heat and mass transfer during natural dehumidification of air around square finned tubes under various operating conditions. <i>Energy Conversion and Management</i> , <b>2022</b> , 255, 115295	10.6	