Nima Mazaheri

List of Publications by Year
in descending order

23	863	361296 20	642610 23
papers	citations	h-index	g-index

23	23	23	629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of a hybrid nanofluid containing graphene nanoplateletâ€“platinum composite powder in a triple-tube heat exchanger equipped with inserted ribs. Applied Thermal Engineering, 2019, 149, 588-601.	3.0	85
2	Second law analysis of a hybrid nanofluid in tubes equipped with double twisted tape inserts. Powder Technology, 2019, 345, 692-703.	2.1	71
3	CFD simulation of irreversibilities for laminar flow of a power-law nanofluid within a minichannel with chaotic perturbations: An innovative energy-efficient approach. Energy Conversion and Management, 2017, 144, 374-387.	4.4	67
4	Systematic review of research guidelines for numerical simulation of biomass gasification for bioenergy production. Energy Conversion and Management, 2019, 183, 671-688.	4.4	63
5	Application of a novel hybrid nanofluid containing grapheneâ€“platinum nanoparticles in a chaotic twisted geometry for utilization in miniature devices: Thermal and energy efficiency considerations. International Journal of Mechanical Sciences, 2018, 138-139, 337-349.	3.6	52
6	Efficacy of a new grapheneâ€“platinum nanofluid in tubes fitted with single and twin twisted tapes regarding counter and co-swirling flows for efficient use of energy. International Journal of Mechanical Sciences, 2019, 150, 290-303.	3.6	52
7	Analyzing performance of a ribbed triple-tube heat exchanger operated with graphene nanoplatelets nanofluid based on entropy generation and exergy destruction. International Communications in Heat and Mass Transfer, 2019, 107, 55-67.	2.9	50
8	Development of chaotic advection in laminar flow of a non-Newtonian nanofluid: A novel application for efficient use of energy. Applied Thermal Engineering, 2017, 124, 1213-1223.	3.0	41
9	Second law analysis for flow of a nanofluid containing grapheneâ€“platinum nanoparticles in a minichannel enhanced with chaotic twisted perturbations. Chemical Engineering Research and Design, 2018, 136, 230-241.	2.7	34
10	Second law analysis and multi-criteria optimization of turbulent heat transfer in a tube with inserted single and double twisted tape. International Journal of Thermal Sciences, 2019, 145, 105998.	2.6	33
11	Employing V-shaped ribs and nanofluid as two passive methods to improve second law characteristics of flow within a square channel: A two-phase approach. International Journal of Heat and Mass Transfer, 2020, 151, 119419.	2.5	33
12	A two-phase simulation for analyzing thermohydraulic performance of Cuâ€“water nanofluid within a square channel enhanced with 90Â° V-shaped ribs. International Journal of Heat and Mass Transfer, 2019, 145, 118612.	2.5	31
13	Employing elliptical pin-fins and nanofluid within a heat sink for cooling of electronic chips regarding energy efficiency perspective. Applied Thermal Engineering, 2021, 183, 116159.	3.0	31
14	Neural network modeling of thermo-hydraulic attributes and entropy generation of an ecofriendly nanofluid flow inside tubes equipped with novel rotary coaxial double-twisted tape. Powder Technology, 2020, 369, 162-175.	2.1	29
15	Thermo-hydraulic performance of a biological nanofluid containing graphene nanoplatelets within a tube enhanced with rotating twisted tape. Powder Technology, 2019, 355, 278-288.	2.1	28
16	CFD analysis of second law characteristics for flow of a hybrid biological nanofluid under rotary motion of a twisted tape: Exergy destruction and entropy generation analyses. Powder Technology, 2020, 372, 351-361.	2.1	25
17	Application of an ecofriendly nanofluid containing graphene nanoplatelets inside a novel spiral liquid block for cooling of electronic processors. Energy, 2021, 218, 119395.	4.5	24
18	Performance enhancement of a triple-tube heat exchanger through heat transfer intensification using novel crimped-spiral ribs and nanofluid: A two-phase analysis. Chemical Engineering and Processing: Process Intensification, 2021, 160, 108289.	1.8	22

#	Article	IF	Citations
19	Predicting heat transfer rate of a ribbed triple-tube heat exchanger working with nanofluid using neural network enhanced by advanced optimization algorithms. Powder Technology, 2021, 381, 459-476.	2.1	21
20	A comprehensive analysis for second law attributes of spiral heat exchanger operating with nanofluid using two-phase mixture model: Exergy destruction minimization attitude. Advanced Powder Technology, 2021, 32, 211-224.	2.0	21
21	Irreversibility characteristics of nanofluid flow under chaotic advection in a minichannel for different nanoparticle types. Journal of the Taiwan Institute of Chemical Engineers, 2018, 88, 25-36.	2.7	20
22	Neural network combined with nature-inspired algorithms to estimate overall heat transfer coefficient of a ribbed triple-tube heat exchanger operating with a hybrid nanofluid. Measurement: Journal of the International Measurement Confederation, 2021, 174, 108967.	2.5	18
23	Thermal performance of a new nanofluid containing biologically functionalized graphene nanoplatelets inside tubes equipped with rotating coaxial double-twisted tapes. International Communications in Heat and Mass Transfer, 2019, 108, 104305.	2.9	12