

# Nima Mazaheri

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

863  
citations

361045

20  
h-index

642321

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Employing elliptical pin-fins and nanofluid within a heat sink for cooling of electronic chips regarding energy efficiency perspective. <i>Applied Thermal Engineering</i> , 2021, 183, 116159.	3.0	31
2	Application of an ecofriendly nanofluid containing graphene nanoplatelets inside a novel spiral liquid block for cooling of electronic processors. <i>Energy</i> , 2021, 218, 119395.	4.5	24
3	Predicting heat transfer rate of a ribbed triple-tube heat exchanger working with nanofluid using neural network enhanced by advanced optimization algorithms. <i>Powder Technology</i> , 2021, 381, 459-476.	2.1	21
4	Performance enhancement of a triple-tube heat exchanger through heat transfer intensification using novel crimped-spiral ribs and nanofluid: A two-phase analysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 160, 108289.	1.8	22
5	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. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 174, 108967.	2.5	18
6	A comprehensive analysis for second law attributes of spiral heat exchanger operating with nanofluid using two-phase mixture model: Exergy destruction minimization attitude. <i>Advanced Powder Technology</i> , 2021, 32, 211-224.	2.0	21
7	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. <i>Powder Technology</i> , 2020, 369, 162-175.	2.1	29
8	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. <i>Powder Technology</i> , 2020, 372, 351-361.	2.1	25
9	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. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119419.	2.5	33
10	Thermo-hydraulic performance of a biological nanofluid containing graphene nanoplatelets within a tube enhanced with rotating twisted tape. <i>Powder Technology</i> , 2019, 355, 278-288.	2.1	28
11	Second law analysis and multi-criteria optimization of turbulent heat transfer in a tube with inserted single and double twisted tape. <i>International Journal of Thermal Sciences</i> , 2019, 145, 105998.	2.6	33
12	Thermal performance of a new nanofluid containing biologically functionalized graphene nanoplatelets inside tubes equipped with rotating coaxial double-twisted tapes. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104305.	2.9	12
13	A two-phase simulation for analyzing thermohydraulic performance of Cu/water nanofluid within a square channel enhanced with 90° V-shaped ribs. <i>International Journal of Heat and Mass Transfer</i> , 2019, 145, 118612.	2.5	31
14	Second law analysis of a hybrid nanofluid in tubes equipped with double twisted tape inserts. <i>Powder Technology</i> , 2019, 345, 692-703.	2.1	71
15	Analyzing performance of a ribbed triple-tube heat exchanger operated with graphene nanoplatelets nanofluid based on entropy generation and exergy destruction. <i>International Communications in Heat and Mass Transfer</i> , 2019, 107, 55-67.	2.9	50
16	Systematic review of research guidelines for numerical simulation of biomass gasification for bioenergy production. <i>Energy Conversion and Management</i> , 2019, 183, 671-688.	4.4	63
17	Application of a hybrid nanofluid containing graphene nanoplatelet-platinum composite powder in a triple-tube heat exchanger equipped with inserted ribs. <i>Applied Thermal Engineering</i> , 2019, 149, 588-601.	3.0	85
18	Efficacy of a new graphene-platinum nanofluid in tubes fitted with single and twin twisted tapes regarding counter and co-swirling flows for efficient use of energy. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 290-303.	3.6	52

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19	Irreversibility characteristics of nanofluid flow under chaotic advection in a minichannel for different nanoparticle types. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 88, 25-36.	2.7	20
20	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. <i>International Journal of Mechanical Sciences</i> , 2018, 138-139, 337-349.	3.6	52
21	Second law analysis for flow of a nanofluid containing grapheneâ€“platinum nanoparticles in a minichannel enhanced with chaotic twisted perturbations. <i>Chemical Engineering Research and Design</i> , 2018, 136, 230-241.	2.7	34
22	CFD simulation of irreversibilities for laminar flow of a power-law nanofluid within a minichannel with chaotic perturbations: An innovative energy-efficient approach. <i>Energy Conversion and Management</i> , 2017, 144, 374-387.	4.4	67
23	Development of chaotic advection in laminar flow of a non-Newtonian nanofluid: A novel application for efficient use of energy. <i>Applied Thermal Engineering</i> , 2017, 124, 1213-1223.	3.0	41