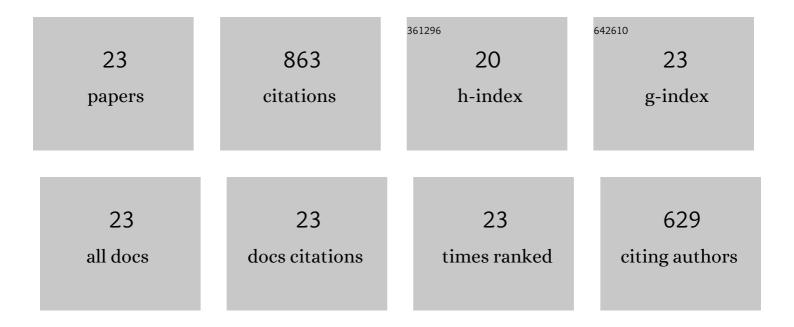
Nima Mazaheri

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Application of a hybrid nanofluid containing graphene nanoplatelet–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 graphene–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 graphene–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 graphene–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 Cu–water nanofluid within a square channel enhanced with 90° 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 |

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|----|---|-----|-----------|
| 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 |