

# Babak Mehmandoust

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

624  
citations

566801

15  
h-index

713013

21  
g-index

21  
all docs

21  
docs citations

21  
times ranked

563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural-forced cooling and Monte-Carlo multi-objective optimization of mechanical and thermal characteristics of a bipolar plate for use in a proton exchange membrane fuel cell. <i>Energy Reports</i> , 2022, 8, 2747-2761.	2.5	24
2	Molecular dynamics study of the thermal behavior of ammonia refrigerant in the presence of copper nanoparticles at different volume ratios and initial temperatures. <i>Journal of Molecular Modeling</i> , 2022, 28, 157.	0.8	1
3	Molecular dynamics simulation of condensation phenomenon of nanofluid on different roughness surfaces in the presence of hydrophilic and hydrophobic structures. <i>Journal of Molecular Liquids</i> , 2021, 334, 116036.	2.3	18
4	Comprehensive study on hydrogen production via propane steam reforming inside a reactor. <i>Energy Reports</i> , 2021, 7, 929-941.	2.5	33
5	Study the time evolution of nanofluid flow in a microchannel with various sizes of Fe nanoparticle using molecular dynamics simulation. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104874.	2.9	15
6	Molecular dynamics simulation of the phase transition process in the atomic scale for Ar/Cu nanofluid on the platinum plates. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104798.	2.9	30
7	The study of atomic porosity effect on water/Fe nanofluid flow in a microchannel with a molecular dynamics method. <i>Journal of Molecular Liquids</i> , 2020, 317, 114291.	2.3	22
8	New water-based fluorescent nanofluid containing 2D titanium carbide MXene sheets: a comparative study of its thermophysical, electrical and optical properties with amine and carboxyl covalently functionalized graphene nanoplatelets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, , 1.	2.0	7
9	Molecular dynamics study of barrier effects on Ferro- nanofluid flow in the presence of constant and time-dependent external magnetic fields. <i>Journal of Molecular Liquids</i> , 2020, 308, 113152.	2.3	16
10	Molecular dynamics simulation of ferronanofluid behavior in a nanochannel in the presence of constant and time-dependent magnetic fields. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2625-2633.	2.0	22
11	Numerical simulation of turbulent nanofluid flow in the narrow channel with a heated wall and a spherical dimple placed on it by using of single- phase and mixture- phase models. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104316.	2.9	26
12	Curve fitting on experimental data of a new hybrid nano-antifreeze viscosity: Presenting new correlations for non-Newtonian nanofluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 531, 120837.	1.2	22
13	Numerical study of natural convection of nanofluid in a semi-circular cavity with lattice Boltzmann method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 2625-2637.	1.6	11
14	MIXED-CONVECTION NANOFLUID FLOW THROUGH A GROOVED CHANNEL WITH INTERNAL HEAT GENERATING SOLID CYLINDERS IN THE PRESENCE OF AN APPLIED MAGNETIC FIELD. <i>Heat Transfer Research</i> , 2019, 50, 287-309.	0.9	1
15	Effect of MHD on the flow and heat transfer characteristics of nanofluid in a grooved channel with internal heat generation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1403-1431.	1.6	17
16	Entropy generation analysis of different nanofluid flows in the space between two concentric horizontal pipes in the presence of magnetic field: Single-phase and two-phase approaches. <i>Computers and Mathematics With Applications</i> , 2019, 77, 662-692.	1.4	117
17	Proposing a new experimental correlation for thermal conductivity of nanofluids containing of functionalized multiwalled carbon nanotubes suspended in a binary base fluid. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 216-222.	2.9	24
18	Numerical simulation of laminar forced convection of water-CuO nanofluid inside a triangular duct. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 85, 103-108.	1.3	100

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19	Natural convection of Al <sub>2</sub> O <sub>3</sub> -water nanofluid in an inclined enclosure with the effects of slip velocity mechanisms: Brownian motion and thermophoresis phenomenon. International Journal of Thermal Sciences, 2016, 105, 137-158.	2.6	99
20	An efficient reliable method to estimate the vaporization enthalpy of pure substances according to the normal boiling temperature and critical properties. Journal of Advanced Research, 2014, 5, 261-269.	4.4	9
21	An Eulerian particle level set method for compressible deforming solids with arbitrary EOS. International Journal for Numerical Methods in Engineering, 2009, 79, 1175-1202.	1.5	10