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Studying the Effect of Indentation on Flow Parameters and Slow Heat Transfer of Water-Silver Nano-Fluid with Varying Volume Fraction in a Rectangular Two-Dimensional Micro Channel

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#	Paper	IF	Citations
45	Experimental investigation for developing a new model for the thermal conductivity of Silica/Water-Ethylene glycol (40% β 0%) nanofluid at different temperatures and solid volume fractions. <i>Journal of Molecular Liquids</i> , 2017 , 232, 105-112	6	114
44	Developing a new correlation to estimate the thermal conductivity of MWCNT-CuO/water hybrid nanofluid via an experimental investigation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 129, 859-867	4.1	168
43	Numerical simulation of heat transfer and fluid flow of Water-CuO Nanofluid in a sinusoidal channel with a porous medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 87, 134-140	2	109
42	Modeling industrial scale reaction furnace using computational fluid dynamics: A case study in Ilam gas treating plant. <i>Applied Thermal Engineering</i> , 2017 , 123, 277-289	5.8	25
41	The numerical investigation of heat transfer and pressure drop of turbulent flow in a triangular microchannel. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 93, 179-189	3	112
40	Increasing heat transfer of non-Newtonian nanofluid in rectangular microchannel with triangular ribs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 93, 167-178	3	116
39	Nanoparticle shape effects on thermal-hydraulic performance of boehmite alumina nanofluids in a sinusoidal wavy mini-channel with phase shift and variable wavelength. <i>International Journal of Mechanical Sciences</i> , 2017 , 128-129, 550-563	5.5	77
38	Analysis of heat transfer and nanofluid fluid flow in microchannels with trapezoidal, rectangular and triangular shaped ribs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 91, 15-31	3	146
37	A comprehensive study of the performance of a heat pipe by using of various nanofluids. <i>Advanced Powder Technology</i> , 2017 , 28, 3074-3084	4.6	68
36	Rheological behavior characteristics of TiO ₂ -MWCNT/10w40 hybrid nano-oil affected by temperature, concentration and shear rate: An experimental study and a neural network simulating. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 94, 231-240	3	90
35	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	3	91
34	Numerical investigation on the flow and heat transfer of a multi-lobe particle and equivalent spherical particles in a packed bed with considering the wall effects. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 350-367	5.5	16
33	Conjugate natural convection of Al ₂ O ₃ -water nanofluid in a square cavity with a concentric solid insert using Buongiorno's two-phase model. <i>International Journal of Mechanical Sciences</i> , 2018 , 136, 200-219	5.5	57
32	New experimental correlation for the thermal conductivity of ethylene glycol containing Al ₂ O ₃ -Cu hybrid nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 1605-1613	4.1	41
31	A novel study on rheological behavior of ZnO-MWCNT/10w40 nanofluid for automotive engines. <i>Journal of Molecular Liquids</i> , 2018 , 254, 406-413	6	59
30	The effect of attack angle of triangular ribs on heat transfer of nanofluids in a microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 2893-2912	4.1	104
29	Investigation of turbulent heat transfer and nanofluid flow in a double pipe heat exchanger. <i>Advanced Powder Technology</i> , 2018 , 29, 273-282	4.6	164

28	Numerical study of flow and heat transfer of water-Al ₂ O ₃ nanofluid inside a channel with an inner cylinder using Eulerian-Lagrangian approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 132, 651-665	4.1	39
27	Numerical simulation of pressure drop for three-dimensional rectangular microchannels. <i>Engineering Computations</i> , 2018 , 35, 2234-2254	1.4	5
26	Develop the nano scale method of lattice Boltzmann to predict the fluid flow and heat transfer of air in the inclined lid driven cavity with a large heat source inside, Two case studies: Pure natural convection & mixed convection. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018 , 509, 210-233	3.3	70
25	Numerical study of mixed convection heat transfer inside a vertical microchannel with two-phase approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1119-1134	4.1	20
24	Evaluation of MWCNTs-ZnO/5W50 nanolubricant by design of an artificial neural network for predicting viscosity and its optimization. <i>Journal of Molecular Liquids</i> , 2019 , 277, 921-931	6	42
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22	Numerical investigation of heat transfer of nanofluid flow through a microchannel with heat sinks and sinusoidal cavities by using novel nozzle structure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 737-752	4.1	18
21	A useful case study to develop lattice Boltzmann method performance: Gravity effects on slip velocity and temperature profiles of an air flow inside a microchannel under a constant heat flux boundary condition. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 136, 1017-1029	4.9	38
20	Lattice-Boltzmann method for analysis of combined forced convection and radiation heat transfer in a channel with sinusoidal distribution on walls. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 526, 121066	3.3	20
19	Rigorous smart model for predicting dynamic viscosity of Al ₂ O ₃ /water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 307-316	4.1	44
18	Thermal performance improvement in water nanofluid/GNP/SDS in novel design of double-layer microchannel heat sink with sinusoidal cavities and rectangular ribs. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 1333-1345	4.1	39
17	Mathematical and artificial brain structure-based modeling of heat conductivity of water based nanofluid enriched by double wall carbon nanotubes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 540, 120766	3.3	8
16	Hydrothermal performance of nanofluid flow in a sinusoidal double layer microchannel in order to geometric optimization. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 117, 104700	5.8	26
15	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	4.9	22
14	Statistical analysis of enriched water heat transfer with various sizes of MgO nanoparticles using artificial neural networks modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 554, 123950	3.3	9
13	The Effect of Nanoparticle Shape and Microchannel Geometry on Fluid Flow and Heat Transfer in a Porous Microchannel. <i>Symmetry</i> , 2020 , 12, 591	2.7	5
12	Thermal and hydrodynamic analysis of non-Newtonian nanofluid in wavy microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 811-825	4.1	13
11	Convective heat transfer of laminar nano-fluids flow through a rectangular micro-channel with different types of baffle-corrugation. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 1-11	0.7	2

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9	Enhancing the Flow in Microchannel using Natural Polymeric Additives. <i>Indian Journal of Science and Technology</i> , 2017 , 10, 1-5	1	7
8	Convection Inside Nanofluid Cavity with Mixed Partially Boundary Conditions. <i>Energies</i> , 2021 , 14, 6448	3.1	1
7	NUMERICAL INVESTIGATION OF COOLING A RIBBED MICROCHANNEL USING NANOFLUID. <i>Journal of Thermal Engineering</i> , 2408-2422	1.1	3
6	Thermal management of electronic components based on new wave bio-inspired structures and nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 131, 105840	5.8	2
5	Microchannel flow and heat transfer enhancement via ribs arrangements. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892210800	1.5	0
4	Effect of Metal Foam on Natural Convective Heat Transfer of Nanofluids in a Photothermal Conversion System. <i>Transport in Porous Media</i> , 1	3.1	0
3	A study of phase portraits, multistability and velocity profile of magneto-hydrodynamic Jeffery-Hamel flow nanofluid. <i>Chinese Journal of Physics</i> , 2022 ,	3.5	0
2	Control of non-Newtonian fluid flow and heat transfer in microchannel by using porous triangular ribs and pulsating jet. <i>European Physical Journal Plus</i> , 2022 , 137,	3.1	0
1	Heat Transfer Enhancement Using Rectangular and Triangular Shaped Baffles with and without Nanofluid: New Insight into Optimization of Flow Geometric Parameters. 2022 , 58, 486-500		