

Navid Freidoonimehr

List of Publications by Year in descending order

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35
papers

2,727
citations

361413

20
h-index

395702

33
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35
all docs

35
docs citations

35
times ranked

1438
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy generation in steady MHD flow due to a rotating porous disk in a nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2013, 62, 515-525.	4.8	621
2	Entropy analysis for an unsteady MHD flow past a stretching permeable surface in nano-fluid. <i>Powder Technology</i> , 2014, 267, 256-267.	4.2	225
3	Analytical modeling of entropy generation for Casson nano-fluid flow induced by a stretching surface. <i>Advanced Powder Technology</i> , 2015, 26, 542-552.	4.1	217
4	Free convective heat and mass transfer for MHD fluid flow over a permeable vertical stretching sheet in the presence of the radiation and buoyancy effects. <i>Ain Shams Engineering Journal</i> , 2014, 5, 901-912.	6.1	207
5	Parametric analysis and optimization of entropy generation in unsteady MHD flow over a stretching rotating disk using artificial neural network and particle swarm optimization algorithm. <i>Energy</i> , 2013, 55, 497-510.	8.8	190
6	Homotopy simulation of nanofluid dynamics from a non-linearly stretching isothermal permeable sheet with transpiration. <i>Meccanica</i> , 2014, 49, 469-482.	2.0	185
7	Unsteady MHD free convective flow past a permeable stretching vertical surface in a nano-fluid. <i>International Journal of Thermal Sciences</i> , 2015, 87, 136-145.	4.9	168
8	Entropy analysis of convective MHD flow of third grade non-Newtonian fluid over a stretching sheet. <i>Ain Shams Engineering Journal</i> , 2017, 8, 77-85.	6.1	127
9	Mixed Convective Heat Transfer for MHD Viscoelastic Fluid Flow over a Porous Wedge with Thermal Radiation. <i>Advances in Mechanical Engineering</i> , 2014, 6, 735939.	1.6	126
10	Comparative numerical study of single and two-phase models of nanofluid heat transfer in wavy channel. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 831-848.	3.6	124
11	MHD stagnation point flow heat and mass transfer of nanofluids in porous medium with radiation, viscous dissipation and chemical reaction. <i>Advanced Powder Technology</i> , 2016, 27, 742-749.	4.1	123
12	Analytical Modelling of Three-Dimensional Squeezing Nanofluid Flow in a Rotating Channel on a Lower Stretching Porous Wall. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-14.	1.1	44
13	Performance evaluation of an irreversible Miller cycle comparing FTI (finite-time thermodynamics) analysis and ANN (artificial neural network) prediction. <i>Energy</i> , 2016, 94, 100-109.	8.8	39
14	Analysis of Entropy Generation in MHD Stagnation-Point Flow in Porous Media with Heat Transfer. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2014, 15, 345-355.	2.1	29
15	Study of Nonlinear MHD Tribological Squeeze Film at Generalized Magnetic Reynolds Numbers Using DTM. <i>PLoS ONE</i> , 2015, 10, e0135004.	2.5	26
16	Analysis of entropy generation in an MHD flow over a rotating porous disk with variable physical properties. <i>International Journal of Exergy</i> , 2015, 16, 481.	0.4	26
17	Exact-solution of entropy generation for MHD nanofluid flow induced by a stretching/shrinking sheet with transpiration: Dual solution. <i>Advanced Powder Technology</i> , 2017, 28, 671-685.	4.1	26
18	Effect of shape of the stenosis on the hemodynamics of a stenosed coronary artery. <i>Physics of Fluids</i> , 2021, 33, .	4.0	24

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19	Second law of thermodynamics analysis of hydro-magnetic nano-fluid slip flow over a stretching permeable surface. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2015, 37, 1245-1256.	1.6	22
20	Transitional turbulent flow in a stenosed coronary artery with a physiological pulsatile flow. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e3347.	2.1	22
21	Dual Solutions for MHD Jeffery-Hamel Nano-Fluid Flow in Non-parallel Walls Using Predictor Homotopy Analysis Method. <i>Journal of Applied Fluid Mechanics</i> , 2015, 8, 911-919.	0.2	22
22	Analytical Modeling of MHD Flow over a Permeable Rotating Disk in the Presence of Soret and Dufour Effects: Entropy Analysis. <i>Entropy</i> , 2016, 18, 131.	2.2	21
23	An experimental model for pressure drop evaluation in a stenosed coronary artery. <i>Physics of Fluids</i> , 2020, 32, .	4.0	20
24	Predictor homotopy analysis method for nanofluid flow through expanding or contracting gaps with permeable walls. <i>International Journal of Biomathematics</i> , 2015, 08, 1550050.	2.9	17
25	Double Diffusive Magnetohydrodynamic (MHD) Mixed Convective Slip Flow along a Radiating Moving Vertical Flat Plate with Convective Boundary Condition. <i>PLoS ONE</i> , 2014, 9, e109404.	2.5	13
26	Analytical approximation of MHD nano-fluid flow induced by a stretching permeable surface using Buongiorno's model. <i>Ain Shams Engineering Journal</i> , 2018, 9, 525-536.	6.1	13
27	Comment on "Effects of thermophoresis and Brownian motion on nanofluid heat transfer and entropy generation" by M. Mahmoodi, Sh. Kandelousi, <i>Journal of Molecular Liquids</i> , 211 (2015) 15-24. <i>Journal of Molecular Liquids</i> , 2016, 216, 99-102.	4.9	11
28	Analytical Investigation of Laminar Viscoelastic Fluid Flow over a Wedge in the Presence of Buoyancy Force Effects. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-11.	0.7	9
29	First and Second-Law Efficiency Analysis and ANN Prediction of a Diesel Cycle with Internal Irreversibility, Variable Specific Heats, Heat Loss, and Friction Considerations. <i>Advances in Mechanical Engineering</i> , 2014, 6, 359872.	1.6	8
30	Analytical approximation of heat and mass transfer in MHD non-Newtonian nanofluid flow over a stretching sheet with convective surface boundary conditions. <i>International Journal of Biomathematics</i> , 2017, 10, 1750008.	2.9	8
31	Effect of artery curvature on the coronary fractional flow reserve. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
32	A Review on the Effect of Temporal Geometric Variations of the Coronary Arteries on the Wall Shear Stress and Pressure Drop. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	6
33	A novel technique towards investigating wall shear stress within the stent struts using particle image velocimetry. <i>Experiments in Fluids</i> , 2021, 62, 1.	2.4	2
34	Effect of Heat Transfer on the First and Second Law Efficiency Analysis and Optimization of an Air-standard Atkinson Cycle. <i>High Temperature</i> , 2018, 56, 433-438.	1.0	0
35	EULERIAN SOLUTION OF SUBCOOLED FLOW BOILING OF NANOFLUID WATER-AL ₂ O ₃ IN A SINUSOIDAL VERTICAL CHANNEL. <i>Journal of Porous Media</i> , 2018, 21, 65-81.	1.9	0