

Vasu Buddakkagari

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

493
citations

13
h-index

20
g-index

47
ext. papers

618
ext. citations

2.5
avg, IF

4.43
L-index

#	Paper	IF	Citations
46	Numerical simulation of the transport of nanoparticles as drug carriers in hydromagnetic blood flow through a diseased artery with vessel wall permeability and rheological effects. <i>Microvascular Research</i> , 2022 , 139, 104241	3.7	2
45	Computational simulation of rheological blood flow containing hybrid nanoparticles in an inclined catheterized artery with stenotic, aneurysmal and slip effects. <i>Computers in Biology and Medicine</i> , 2021 , 139, 105009	7	2
44	Computational simulations of hybrid mediated nano- hemodynamics (Ag-Au/Blood) through an irregular symmetric stenosis. <i>Computers in Biology and Medicine</i> , 2021 , 130, 104213	7	14
43	Unsteady hybrid nanoparticle-mediated magneto-hemodynamics and heat transfer through an overlapped stenotic artery: Biomedical drug delivery simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 1175-1196	1.7	10
42	Unsteady nonlinear magnetohydrodynamic micropolar transport phenomena with Hall and Ion-slip current effects: Numerical study. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 65, 371-403	0.4	3
41	Homotopy Simulation of Dissipative Micropolar Flow and Heat Transfer from a Two-Dimensional Body with Heat Sink Effect. <i>Chemical and Biochemical Engineering Quarterly</i> , 2021 , 34, 257-275	1.8	4
40	Blood Flow Mediated Hybrid Nanoparticles in Human Arterial System: Recent Research, Development and Applications. <i>Journal of Nanofluids</i> , 2021 , 10, 1-30	2.2	2
39	Finite element computation of magneto-hemodynamic flow and heat transfer in a bifurcated artery with saccular aneurysm using the Carreau-Yasuda biorheological model. <i>Microvascular Research</i> , 2021 , 138, 104221	3.7	0
38	Free convective heat transfer in Jeffrey fluid with suspended nanoparticles and Cattaneo-Christov heat flux. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 2020 , 234, 99-114	1.4	
37	Computation of Metallic Nanofluid Natural Convection in a Two-Dimensional Solar Enclosure with Radiative Heat Transfer, Aspect Ratio and Volume Fraction Effects. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 9075-9093	2.5	4
36	Computational fluid dynamic simulation of two-fluid non-Newtonian nanohemodynamics through a diseased artery with a stenosis and aneurysm. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 345-371	2.1	17
35	COMPUTATION OF GOLD-WATER NANOFLUID NATURAL CONVECTION IN A THREE-DIMENSIONAL TILTED PRISMATIC SOLAR ENCLOSURE WITH ASPECT RATIO AND VOLUME FRACTION EFFECTS. <i>Nanoscience and Technology</i> , 2020 , 11, 141-167	4.3	3
34	A REVIEW ON RECENT ADVANCEMENTS IN THE HEMODYNAMICS OF NANO-DRUG DELIVERY SYSTEMS. <i>Nanoscience and Technology</i> , 2020 , 11, 73-98	4.3	2
33	MHD Free Convection-Radiation Interaction in a Porous Medium - Part I: Numerical Investigation. <i>International Journal of Applied Mechanics and Engineering</i> , 2020 , 25, 198-218	0.6	2
32	MHD Free Convection-Radiation Interaction in a Porous Medium - Part II: Soret/Dufour Effects. <i>International Journal of Applied Mechanics and Engineering</i> , 2020 , 25, 157-175	0.6	3
31	Finite Element Analysis of MHD Blood Flow in Stenosed Coronary Artery with the Suspension of Nanoparticles. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020 , 219-239	0.2	1
30	Finite element analysis of non-Newtonian magnetohemodynamic flow conveying nanoparticles through a stenosed coronary artery. <i>Heat Transfer - Asian Research</i> , 2020 , 49, 33-66	2.8	7

29	Non-similar Solution of Eyring-Bowell Fluid Flow and Heat Transfer with Convective Boundary Condition: Homotopy Analysis Method. <i>International Journal of Applied and Computational Mathematics</i> , 2020 , 6, 1	1.3	9
28	Micropolar pulsatile blood flow conveying nanoparticles in a stenotic tapered artery: NON-Newtonian pharmacodynamic simulation. <i>Computers in Biology and Medicine</i> , 2020 , 126, 104025	7	9
27	On Retrieval of Nearly Identical Video Clips with Query Frame 2019 ,		1
26	Magneto-bioconvection flow of a casson thin film with nanoparticles over an unsteady stretching sheet. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 4277-4309	4.5	19
25	MHD free convection flow of power-law nanofluid film along an inclined surface with viscous dissipation and joule heating. <i>World Journal of Engineering</i> , 2019 , 16, 115-124	1.8	2
24	Homotopy Semi-Numerical Modeling of Non-Newtonian Nanofluid Transport External to Multiple Geometries Using a Revised Buongiorno Model. <i>Inventions</i> , 2019 , 4, 54	2.9	15
23	Homotopy Simulation of Non-Newtonian Spriggs Fluid Flow Over a Flat Plate with Oscillating Motion. <i>International Journal of Applied Mechanics and Engineering</i> , 2019 , 24, 359-385	0.6	6
22	Influence of chemically radiative nanoparticles on flow of Maxwell electrically conducting fluid over a convectively heated exponential stretching sheet. <i>World Journal of Engineering</i> , 2019 , 16, 791-805	1.8	1
21	Entropy Analysis of a Convective Film Flow of a Power-Law Fluid with Nanoparticles Along an Inclined Plate. <i>Journal of Applied Mechanics and Technical Physics</i> , 2019 , 60, 827-841	0.6	6
20	Numerical study of Carreau nanofluid flow past vertical plate with the Cattaneo-Christov heat flux model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 702-723	4.5	12
19	Unsteady Flow of a Nanofluid over a Sphere with Nonlinear Boussinesq Approximation. <i>Journal of Thermophysics and Heat Transfer</i> , 2019 , 33, 343-355	1.3	21
18	Hydrodynamics of Non-Newtonian Spriggs Fluid Flow Past an Impulsively Moving Plate. <i>Lecture Notes in Mechanical Engineering</i> , 2018 , 95-107	0.4	3
17	Computational modeling of magnetohydrodynamic convection from a rotating cone in orthotropic Darcian porous media. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 2035-2054	2	9
16	Entropy Generation Analysis in Nonlinear Convection Flow of Thermally Stratified Fluid in Saturated Porous Medium With Convective Boundary Condition. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	15
15	Thermophoresis on boundary layer heat and mass transfer flow of Walters-B fluid past a radiate plate with heat sink/source. <i>Heat and Mass Transfer</i> , 2017 , 53, 1553-1570	2.2	6
14	Mixed convection from a wavy surface embedded in a thermally stratified nanofluid saturated porous medium with non-linear Boussinesq approximation. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 77, 78-86	5.8	28
13	Unsteady Convective Heat Transfer to a Stretching Surface in a Non-Newtonian Nanofluid. <i>Journal of Nanofluids</i> , 2016 , 5, 581-594	2.2	10
12	Transient Combined Convective Heat Transfer over a Stretching Surface in a Non-Newtonian Nanofluid Using Buongiorno Model. <i>Journal of Applied Mathematics and Physics</i> , 2016 , 04, 443-460	0.3	5

11	Transient Boundary Layer Laminar Free Convective Flow of a Nanofluid Over a Vertical Cone/Plate. <i>International Journal of Applied and Computational Mathematics</i> , 2015 , 1, 427-448	1.3	5
10	NUMERICAL STUDY OF MIXED BIOCONVECTION IN POROUS MEDIA SATURATED WITH NANOFUID CONTAINING OXYTACTIC MICROORGANISMS. <i>Journal of Mechanics in Medicine and Biology</i> , 2013 , 13, 1350067	0.7	44
9	Modelling laminar transport phenomena in a Casson rheological fluid from a horizontal circular cylinder with partial slip. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2013 , 227, 309-326	1.5	32
8	THERMO-DIFFUSION AND DIFFUSION-THERMO EFFECTS ON FREE CONVECTION FLOW PAST A HORIZONTAL CIRCULAR CYLINDER IN A NON-DARCY POROUS MEDIUM. <i>Journal of Porous Media</i> , 2013 , 16, 315-334	2.9	5
7	Thermo-Diffusion and Diffusion-Thermo Effects on MHD Free Convective Heat and Mass Transfer from a Sphere Embedded in a Non-Darcian Porous Medium. <i>Journal of Thermodynamics</i> , 2012 , 2012, 1-17		13
6	THERMAL RADIATION EFFECTS ON MAGNETOHYDRODYNAMIC HEAT AND MASS TRANSFER FROM A HORIZONTAL CYLINDER IN A VARIABLE POROSITY REGIME. <i>Journal of Porous Media</i> , 2012 , 15, 261-281	2.9	14
5	Thermal radiation effects on magnetohydrodynamic free convection heat and mass transfer from a sphere in a variable porosity regime. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012 , 17, 654-671	3.7	31
4	Thermo-diffusion and diffusion-thermo effects on MHD free convection flow past a vertical porous plate embedded in a non-Darcian porous medium. <i>Chemical Engineering Journal</i> , 2011 , 173, 598-606	14.7	32
3	Free convection heat and mass transfer from an isothermal sphere to a micropolar regime with Soret/Dufour effects. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 9-18	4.9	51
2	Unsteady free convection heat and mass transfer in a Walters-B viscoelastic flow past a semi-infinite vertical plate: A numerical study. <i>Thermal Science</i> , 2011 , 15, 291-305	1.2	11
1	Convective Flow of Non-homogeneous Fluid Conveying Nano-Sized Particles with Non-Fourier Thermal Relaxation: Application in Polymer Coating. <i>Arabian Journal for Science and Engineering</i> , 2011 , 1, 1-10	2.5	2