

Vasu Buddakkagari

List of Publications by Year in descending order

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papers

799
citations

567144

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48
all docs

48
docs citations

48
times ranked

427
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.5	62
2	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.	0.3	62
3	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.	3.9	43
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.	6.6	42
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.	1.7	40
6	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.	1.4	39
7	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.	2.9	38
8	Unsteady Flow of a Nanofluid over a Sphere with Nonlinear Boussinesq Approximation. <i>Journal of Thermophysics and Heat Transfer</i> , 2019, 33, 343-355.	0.9	38
9	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.	0.9	31
10	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.	1.6	29
11	Homotopy Semi-Numerical Modeling of Non-Newtonian Nanofluid Transport External to Multiple Geometries Using a Revised Buongiorno Model. <i>Inventions</i> , 2019, 4, 54.	1.3	24
12	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.	3.9	21
13	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, .	1.2	20
14	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.	0.5	20
15	Non-similar Solution of Eyringâ€“Powell Fluid Flow and Heat Transfer with Convective Boundary Condition: Homotopy Analysis Method. <i>International Journal of Applied and Computational Mathematics</i> , 2020, 6, 1.	0.9	19
16	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.	3.9	19
17	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.	1.0	18
18	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.	1.0	18

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19	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.	1.6	15
20	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.	0.1	14
21	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.	0.8	13
22	Blood Flow Mediated Hybrid Nanoparticles in Human Arterial System: Recent Research, Development and Applications. <i>Journal of Nanofluids</i> , 2021, 10, 1-30.	1.4	13
23	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.	0.9	12
24	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	12
25	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.	0.5	12
26	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.	1.1	12
27	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.	1.1	12
28	Unsteady Convective Heat Transfer to a Stretching Surface in a Non-Newtonian Nanofluid. <i>Journal of Nanofluids</i> , 2016, 5, 581-594.	1.4	10
29	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.	0.8	9
30	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> , 2022, 47, 6559-6576.	1.7	8
31	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.	1.2	7
32	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.	1.7	7
33	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.	0.3	7
34	A REVIEW ON RECENT ADVANCEMENTS IN THE HEMODYNAMICS OF NANO-DRUG DELIVERY SYSTEMS. <i>Nanoscience and Technology</i> , 2020, 11, 73-98.	0.6	7
35	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.	0.3	7
36	Transient Combined Convective Heat Transfer over a Stretching Surface in a Non-Newtonian Nanofluid Using Buongiorno's Model. <i>Journal of Applied Mathematics and Physics</i> , 2016, 04, 443-460.	0.2	6

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37	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.	1.0	5
38	COMPUTATION OF GOLD-WATER NANOFUID 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.	0.6	4
39	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.	0.3	4
40	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.	1.0	3
41	On Retrieval of Nearly Identical Video Clips with Query Frame. , 2019, , .		2
42	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.	1.0	2
43	Free convective heat transfer in Jeffrey fluid with suspended nanoparticles and Cattaneo's Christov heat flux. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 2020, 234, 99-114.	0.5	2
44	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.	0.3	2
45	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.	0.1	1