

Dr Syed Modassir Hussain

List of Publications by Year in descending order

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34
papers

958
citations

471509

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526287

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all docs

34
docs citations

34
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	Free convective heat transfer with hall effects, heat absorption and chemical reaction over an accelerated moving plate in a rotating system. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 422, 112-123.	2.3	87
2	A comparative entropy based analysis of tangent hyperbolic hybrid nanofluid flow: Implementing finite difference method. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105671.	5.6	86
3	Physical specifications of MHD mixed convective of Ostwald-de Waele nanofluids in a vented-cavity with inner elliptic cylinder. <i>International Communications in Heat and Mass Transfer</i> , 2022, 134, 106038.	5.6	70
4	Galerkin finite element solution for electromagnetic radiative impact on viscid Williamson two-phase nanofluid flow via extendable surface. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106243.	5.6	65
5	Effectiveness of Nonuniform Heat Generation (Sink) and Thermal Characterization of a Carreau Fluid Flowing across a Nonlinear Elongating Cylinder: A Numerical Study. <i>ACS Omega</i> , 2022, 7, 25309-25320.	3.5	55
6	Study of graphene Maxwell nanofluid flow past a linearly stretched sheet: A numerical and statistical approach. <i>Chinese Journal of Physics</i> , 2020, 68, 671-683.	3.9	54
7	Effects of Hall current, radiation and rotation on natural convection heat and mass transfer flow past a moving vertical plate. <i>Ain Shams Engineering Journal</i> , 2014, 5, 489-503.	6.1	52
8	Comparative Study on Effects of Thermal Gradient Direction on Heat Exchange between a Pure Fluid and a Nanofluid: Employing Finite Volume Method. <i>Coatings</i> , 2021, 11, 1481.	2.6	34
9	Computational analysis of thermal energy distribution of electromagnetic Casson nanofluid across stretched sheet: Shape factor effectiveness of solid-particles. <i>Energy Reports</i> , 2021, 7, 7460-7477.	5.1	32
10	Thermal analysis characterisation of solar-powered ship using Oldroyd hybrid nanofluids in parabolic trough solar collector: An optimal thermal application. <i>Nanotechnology Reviews</i> , 2022, 11, 2015-2037.	5.8	32
11	Hydromagnetic Dissipative and Radiative Graphene Maxwell Nanofluid Flow Past a Stretched Sheet-Numerical and Statistical Analysis. <i>Mathematics</i> , 2020, 8, 1929.	2.2	31
12	Numerical and statistical explorations on the dynamics of water conveying Cu-Al ₂ O ₃ hybrid nanofluid flow over an exponentially stretchable sheet with Navier's partial slip and thermal jump conditions. <i>Chinese Journal of Physics</i> , 2022, 75, 120-138.	3.9	29
13	Dynamics of radiative Williamson hybrid nanofluid with entropy generation: significance in solar aircraft. <i>Scientific Reports</i> , 2022, 12, .	3.3	28
14	Entropy Amplified solitary phase relative probe on engine oil based hybrid nanofluid. <i>Chinese Journal of Physics</i> , 2022, 77, 1654-1681.	3.9	27
15	The flow, thermal and mass properties of Soret-Dufour model of magnetized Maxwell nanofluid flow over a shrinkage inclined surface. <i>PLoS ONE</i> , 2022, 17, e0267148.	2.5	26
16	Comparative Numerical Study of Thermal Features Analysis between Oldroyd-B Copper and Molybdenum Disulfide Nanoparticles in Engine-Oil-Based Nanofluids Flow. <i>Coatings</i> , 2021, 11, 1196.	2.6	25
17	Thermal radiation impact on boundary layer dissipative flow of magneto-nanofluid over an exponentially stretching sheet. <i>International Journal of Heat and Technology</i> , 2018, 36, 1163-1173.	0.6	25
18	Features and aspects of radioactive flow and slippage velocity on rotating two-phase Prandtl nanofluid with zero mass fluxing and convective constraints. <i>International Communications in Heat and Mass Transfer</i> , 2022, 136, 106180.	5.6	25

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19	Dynamics of ethylene glycol-based graphene and molybdenum disulfide hybrid nanofluid over a stretchable surface with slip conditions. <i>Scientific Reports</i> , 2022, 12, 1751.	3.3	24
20	Implication of Arrhenius Activation Energy and Temperature-Dependent Viscosity on Non-Newtonian Nanomaterial Bio-Convective Flow with Partial Slip. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 7559-7570.	3.0	21
21	Chemical reaction and thermal characteristics of Maxwell nanofluid flow-through solar collector as a potential solar energy cooling application: A modified Buongiorno's model. <i>Energy and Environment</i> , 2023, 34, 1409-1432.	4.6	19
22	Thermal-enhanced hybrid of copper-zirconium dioxide/ethylene glycol nanofluid flowing in the solar collector of water-pump application. <i>Waves in Random and Complex Media</i> , 0, , 1-28.	2.7	14
23	HYDROMAGNETIC NATURAL CONVECTION FLOW WITH RADIATIVE HEAT TRANSFER PAST AN ACCELERATED MOVING VERTICAL PLATE WITH RAMPED TEMPERATURE THROUGH A POROUS MEDIUM. <i>Journal of Porous Media</i> , 2014, 17, 67-79.	1.9	12
24	Soret and Dufour Effects on Viscoelastic Radiative and Heat Absorbing Nanofluid Driven by a Stretched Sheet with Inclined Magnetic Field. <i>Defect and Diffusion Forum</i> , 0, 388, 223-245.	0.4	12
25	Mechanical improvement in solar aircraft by using tangent hyperbolic single-phase nanofluid. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892110593.	2.5	12
26	Radiative Magneto-Nanofluid Over an Accelerated Moving Ramped Temperature Plate with Hall Effects. <i>Journal of Nanofluids</i> , 2017, 6, 840-851.	2.7	11
27	Irreversibility analysis of time-dependent magnetically driven flow of Sutterby hybrid nanofluid: a thermal mathematical model. <i>Waves in Random and Complex Media</i> , 0, , 1-33.	2.7	10
28	Analysis of Radiative Magneto-Nanofluid over an Accelerated Plate in a Rotating Medium with Hall Effects. , 2017, 11, 129-145.		9
29	Hydromagnetic oscillatory Couette flow in rotating system with induced magnetic field. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 1331-1344.	3.6	8
30	Thermal Management of Magnetohydrodynamic Nanofluid Within Porous C-Shaped Cavity with Undulated Baffle. <i>Journal of Thermophysics and Heat Transfer</i> , 2022, 36, 594-611.	1.6	8
31	Dynamics of heat absorbing and radiative hydromagnetic nanofluids through a stretching surface with chemical reaction and viscous dissipation. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2024, 238, 101-111.	2.5	7
32	Thermal slip and homogeneous/heterogeneous reaction characteristics of second-grade fluid flow over an exponentially stretching sheet. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892110641.	2.5	4
33	Numerical study of Casson nanofluid flow past a vertical convectively heated Riga-plate with Navier's slip condition. <i>AIP Conference Proceedings</i> , 2022, , .	0.4	2
34	Numerical investigation of generalized perturbed Zakharov-Kuznetsov equation of fractional order in dusty plasma. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	2.7	2