

# Joby Mackolil

## List of Publications by Year in descending order

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32  
papers

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623699

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526264

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Heat transfer enhancement using temperature-dependent effective properties of alumina-water nanoliquid with thermo-solutal Marangoni convection: A sensitivity analysis. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 255-266.	3.1	10
2	A study on heat transfer in three-dimensional nonlinear convective boundary layer flow of nanomaterial considering the aggregation of nanoparticles. <i>Heat Transfer</i> , 2022, 51, 891-908.	3.0	5
3	A study on nanoliquid flow with irregular heat source and realistic boundary conditions: A modified Buongiorno model for biomedical applications. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2022, 102, e202100167.	1.6	17
4	Optimization of anti-corrosion performance of novel magnetic polyaniline-Chitosan nanocomposite decorated with silver nanoparticles on Al in simulated acidizing environment using RSM. <i>International Journal of Biological Macromolecules</i> , 2022, 195, 329-345.	7.5	6
5	Computational simulation of surface tension and gravitation-induced convective flow of a nanoliquid with cross-diffusion: An optimization procedure. <i>Applied Mathematics and Computation</i> , 2022, 425, 127108.	2.2	3
6	Nanoparticle aggregation kinematics on the quadratic convective magnetohydrodynamic flow of nanomaterial past an inclined flat plate with sensitivity analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 1056-1066.	2.5	21
7	Sensitivity analysis of Marangoni convection in TiO <sub>2</sub> -EG nanoliquid with nanoparticle aggregation and temperature-dependent surface tension. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2085-2098.	3.6	48
8	Significance of quadratic thermal radiation and quadratic convection on boundary layer two-phase flow of a dusty nanoliquid past a vertical plate. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105029.	5.6	61
9	Inclined magnetic field and nanoparticle aggregation effects on thermal Marangoni convection in nanoliquid: A sensitivity analysis. <i>Chinese Journal of Physics</i> , 2021, 69, 24-37.	3.9	38
10	Flow of nanoliquid past a vertical plate with novel quadratic thermal radiation and quadratic Boussinesq approximation: Sensitivity analysis. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105040.	5.6	41
11	Nonlinear radiation and cross-diffusion effects on the micropolar nanoliquid flow past a stretching sheet with an exponential heat source. <i>Heat Transfer</i> , 2021, 50, 3530-3546.	3.0	37
12	Numerical and sensitivity analysis of MHD bioconvective slip flow of nanomaterial with binary chemical reaction and Newtonian heating. <i>Heat Transfer</i> , 2021, 50, 5439-5466.	3.0	7
13	Exponential heat source effects on the stagnation-point heat transport of Williamson nanoliquid with nonlinear Boussinesq approximation. <i>Heat Transfer</i> , 2021, 50, 6645-6664.	3.0	3
14	Response surface optimization of heat transfer rate in Falkner-Skan flow of ZnO-EG nanoliquid over a moving wedge: Sensitivity analysis. <i>International Communications in Heat and Mass Transfer</i> , 2021, 125, 105348.	5.6	19
15	Heat transfer optimization of hybrid nanomaterial using modified Buongiorno model: A sensitivity analysis. <i>International Journal of Heat and Mass Transfer</i> , 2021, 171, 121081.	4.8	44
16	Heat transfer of TiO <sub>2</sub> -EG nanoliquid with active and passive control of nanoparticles subject to nonlinear Boussinesq approximation. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105443.	5.6	32
17	Heat transfer optimization and sensitivity analysis of Marangoni convection in nanoliquid with nanoparticle interfacial layer and cross-diffusion effects. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105361.	5.6	24
18	Increased risk-taking behavior during the COVID-19 pandemic: psychological underpinnings and implications. <i>Revista Brasileira De Psiquiatria</i> , 2021, 43, 559-560.	1.7	2

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19	Stability and statistical analysis on melting heat transfer in a hybrid nanofluid with thermal radiation effect. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 2129-2140.	2.5	15
20	Deciphering the impact of COVID-19 pandemic on food security, agriculture, and livelihoods: A review of the evidence from developing countries. Current Research in Environmental Sustainability, 2020, 2, 100014.	3.5	187
21	Mixed radiated magneto Casson fluid flow with Arrhenius activation energy and Newtonian heating effects: Flow and sensitivity analysis. AEJ - Alexandria Engineering Journal, 2020, 59, 3991-4011.	6.4	69
22	Why is mental health of the geriatric population at a higher risk during the COVID-19 pandemic?. Asian Journal of Psychiatry, 2020, 54, 102401.	2.0	3
23	Addressing psychosocial problems associated with the COVID-19 lockdown. Asian Journal of Psychiatry, 2020, 51, 102156.	2.0	75
24	Statistical analysis of stagnation point heat flow in Williamson fluid with viscous dissipation and exponential heat source effects. Heat Transfer, 2020, 49, 4580-4591.	3.0	17
25	Logistic Growth and SIR Modelling of Coronavirus Disease (COVID-19) Outbreak in India: Models Based on Real-Time Data. Mathematical Modelling of Engineering Problems, 2020, 7, 345-350.	0.5	1
26	Time-Dependent Nonlinear Convective Flow and Radiative Heat Transfer of Cu-Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O Hybrid Nanoliquid with Polar Particles Suspension: a Statistical and Exact Analysis. BioNanoScience, 2019, 9, 937-951.	3.5	16
27	Exact and statistical computations of radiated flow of nano and Casson fluids under heat and mass flux conditions. Journal of Computational Design and Engineering, 2019, 6, 593-605.	3.1	35
28	Sensitivity analysis of radiative heat transfer in Casson and nano fluids under diffusion-thermo and heat absorption effects. European Physical Journal Plus, 2019, 134, 1.	2.6	23
29	Nanofluid flow past a vertical plate with nanoparticle aggregation kinematics, thermal slip and significant buoyancy force effects using modified Buongiorno model. Waves in Random and Complex Media, 0, , 1-25.	2.7	22
30	Heat transport in the flow of magnetized nanofluid over a stretchable surface with heat sources: A mathematical model with realistic conditions. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 0, , e202100343.	1.6	1
31	Cattaneo-Christov Theory to model heat flux effect on nanoliquid slip flow over a spinning disk with nanoparticle aggregation and Hall current. Waves in Random and Complex Media, 0, , 1-23.	2.7	15
32	Modelling and optimization of Rhodamine B degradation over Bi <sub>2</sub> WO <sub>6</sub> /Bi <sub>2</sub> O <sub>3</sub> heterojunction using response surface methodology. Applied Nanoscience (Switzerland), 0, , .	3.1	2