

# Umar Farooq

## List of Publications by Year in descending order

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46  
papers

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Thermally radioactive bioconvection flow of Carreau nanofluid with modified Cattaneo-Christov expressions and exponential space-based heat source. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3073-3086.	6.4	113
2	Impact of MHD radiative flow of hybrid nanofluid over a rotating disk. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101015.	5.7	103
3	A Numerical Exploration of Modified Second-Grade Nanofluid with Motile Microorganisms, Thermal Radiation, and Wu's Slip. <i>Symmetry</i> , 2020, 12, 393.	2.2	97
4	Bioconvection analysis for Sutterby nanofluid over an axially stretched cylinder with melting heat transfer and variable thermal features: A Marangoni and solutal model. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 4663-4675.	6.4	91
5	Numerical performance of thermal conductivity in Bioconvection flow of cross nanofluid containing swimming microorganisms over a cylinder with melting phenomenon. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101181.	5.7	72
6	Double stratified analysis for bioconvection radiative flow of Sisko nanofluid with generalized heat/mass fluxes. <i>Physica Scripta</i> , 2021, 96, 055004.	2.5	51
7	On doubly stratified bioconvective transport of Jeffrey nanofluid with gyrotactic motile microorganisms. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1571-1583.	6.4	47
8	Numerical analysis of dual variable of conductivity in bioconvection flow of Carreau-Yasuda nanofluid containing gyrotactic motile microorganisms over a porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2033-2044.	3.6	46
9	Thermal effect on bioconvection flow of Sutterby nanofluid between two rotating disks with motile microorganisms. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101136.	5.7	41
10	Bioconvection transport of Carreau nanofluid with magnetic dipole and nonlinear thermal radiation. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101129.	5.7	40
11	Significance of magnetic field and activation energy on the features of stratified mixed radiative-convective couple-stress nanofluid flows with motile microorganisms. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1425-1436.	6.4	39
12	Numerical study for bio-convection flow of tangent hyperbolic nanofluid over a Riga plate with activation energy. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1803-1814.	6.4	38
13	Cattaneo-Christov heat flux and entropy generation on hybrid nanofluid flow in a nozzle of rocket engine with melting heat transfer. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101504.	5.7	36
14	Assessment of bioconvection in magnetized Sutterby nanofluid configured by a rotating disk: A numerical approach. <i>Modern Physics Letters B</i> , 2021, 35, 2150202.	1.9	35
15	Numerical simulation for melting heat transport in nanofluids due to quadratic stretching plate with nonlinear thermal radiation. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101300.	5.7	35
16	On the magnetized 3D flow of hybrid nanofluids utilizing nonlinear radiative heat transfer. <i>Physica Scripta</i> , 2021, 96, 095202.	2.5	28
17	Importance of shape factor in Sisko nanofluid flow considering gold nanoparticles. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3665-3672.	6.4	28
18	Numerical simulation of squeezing flow Jeffrey nanofluid confined by two parallel disks with the help of chemical reaction: effects of activation energy and microorganisms. <i>International Journal of Chemical Reactor Engineering</i> , 2021, 19, 717-725.	1.1	27

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19	On melting heat transport and nanofluid in a nozzle of liquid rocket engine with entropy generation. Journal of Materials Research and Technology, 2021, 14, 3059-3069.	5.8	25
20	Numerical computation of melting heat transfer in nonlinear radiative flow of hybrid nanofluids due to permeable stretching curved surface. Case Studies in Thermal Engineering, 2021, 27, 101348.	5.7	23
21	Marangoni bioconvective flow of Reiner-Philippoff nanofluid with melting phenomenon and nonuniform heat source/sink in the presence of a swimming microorganisms. Mathematical Methods in Applied Sciences, 2021, 44, 1057-1070.	2.3	22
22	Significance of surface-catalyzed reactions in the flow of hybrid nanofluid over a stretching sheet. Journal of Materials Research and Technology, 2021, 14, 3070-3079.	5.7	22
23	Comparative analysis of hybrid nanofluids with Cattaneo-Christov heat flux model: A thermal case study. Case Studies in Thermal Engineering, 2022, 36, 102212.	5.7	21
24	Second-order slip effect on bio-convective viscoelastic nanofluid flow through a stretching cylinder with swimming microorganisms and melting phenomenon. Scientific Reports, 2021, 11, 11208.	3.3	20
25	Computation of nonlinear thermal radiation in magnetized nanofluid flow with entropy generation. Applied Mathematics and Computation, 2022, 423, 126900.	2.2	20
26	Bioconvection flow of Casson nanofluid by rotating disk with motile microorganisms. Journal of Materials Research and Technology, 2021, 13, 2392-2407.	5.8	19
27	Numerical investigation for 3D bioconvection flow of Carreau nanofluid with heat source/sink and motile microorganisms. AEJ - Alexandria Engineering Journal, 2022, 61, 2366-2375.	6.4	19
28	Aspects of thermal diffusivity and melting phenomenon in Carreau nanofluid flow confined by nonlinear stretching cylinder with convective Marangoni boundary constraints. Mathematics and Computers in Simulation, 2022, 195, 138-150.	4.4	18
29	Melting phenomenon of non-linear radiative generalized second grade nanoliquid. Case Studies in Thermal Engineering, 2021, 26, 101011.	5.7	16
30	Investigation of 3D flow of magnetized hybrid nanofluid with heat source/sink over a stretching sheet. Scientific Reports, 2022, 12, .	3.3	15
31	Numerical investigation for melting heat transport of nanofluids due to stretching surface with Cattaneo-Christov thermal model. AEJ - Alexandria Engineering Journal, 2022, 61, 6635-6644.	6.4	14
32	On unsteady 3D bio-convection flow of viscoelastic nanofluid with radiative heat transfer inside a solar collector plate. Scientific Reports, 2022, 12, 2952.	3.3	14
33	Magnetized bioconvection flow of Sutterby fluid characterized by the suspension of nanoparticles across a wedge with activation energy. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000349.	1.6	13
34	Chemically reactive transport of magnetized hybrid nanofluids through Darcian porous medium. Case Studies in Thermal Engineering, 2021, 28, 101431.	5.7	12
35	Numerical simulation for bioconvective flow of burger nanofluid with effects of activation energy and exponential heat source/sink over an inclined wall under the swimming microorganisms. Scientific Reports, 2021, 11, 14305.	3.3	10
36	Thermal transport of hybrid nanofluids with entropy generation: A numerical simulation. International Journal of Modern Physics B, 2021, 35, 2150218.	2.0	8

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37	Recent progress in melting phenomenon for magnetized hybrid nanofluid flow over a stretching surface with temperature dependent viscosity: a comparative study. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3965-3973.	5.8	7
38	Investigation of thermal stratification and nonlinear thermal radiation in Darcy-Forchheimer transport of hybrid nanofluid by rotating disk with Marangoni convection. <i>International Journal of Ambient Energy</i> , 2022, 43, 6724-6731.	2.5	7
39	Bioconvection transport of magnetized micropolar nanofluid by a Riga plate with non-uniform heat sink/source. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	2.7	6
40	Heat transfer enhancement of hybrid nanofluids over porous cone. <i>International Journal of Chemical Reactor Engineering</i> , 2022, 20, 465-473.	1.1	6
41	Significance of melting process in magnetized transport of hybrid nanofluids: A three-dimensional model. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3949-3957.	6.4	5
42	Cattaneo-Christov heat and mass flux effect on upper-convected Maxwell nanofluid with gyrotactic motile microorganisms over a porous sheet. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102037.	2.7	5
43	Inspection of thermal jump conditions on nanofluids with nanoparticles and multiple slip effects. <i>Scientific Reports</i> , 2022, 12, 5586.	3.3	3
44	Nonlinear radiative transport of hybrid nanofluids due to moving sheet with entropy generation. <i>International Journal of Chemical Reactor Engineering</i> , 2021, .	1.1	2
45	Comprehensive analysis of thermally radiative transport of Sisko fluid over a porous stretchable curved surface with gold nanoparticles. <i>International Journal of Modern Physics B</i> , 2022, 36, .	2.0	2
46	Shear thinning and shear thickening aspects in magnetized 3D cross-nanofluid flow with activation energy and motile microorganisms. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	2.7	1