

# Faisal Shahzad

## List of Publications by Year in descending order

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37  
papers

1,067  
citations

430874

18  
h-index

501196

28  
g-index

38  
all docs

38  
docs citations

38  
times ranked

442  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal expansion optimization in solar aircraft using tangent hyperbolic hybrid nanofluid: a solar thermal application. <i>Journal of Materials Research and Technology</i> , 2021, 14, 985-1006.	5.8	135
2	Thermal growth in solar water pump using Prandtl-Eyring hybrid nanofluid: a solar energy application. <i>Scientific Reports</i> , 2021, 11, 18704.	3.3	72
3	MHD pulsatile flow of engine oil based carbon nanotubes between two concentric cylinders. <i>Results in Physics</i> , 2017, 7, 57-68.	4.1	60
4	Thermal examination of renewable solar energy in parabolic trough solar collector utilizing Maxwell nanofluid: A noble case study. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101258.	5.7	59
5	Thermal and solutal performance of Cu/CuO nanoparticles on a non-linear radially stretching surface with heat source/sink and varying chemical reaction effects. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105710.	5.6	44
6	Features of entropy optimization on viscous second grade nanofluid streamed with thermal radiation: A Tiwari and Das model. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101291.	5.7	43
7	Heat transfer analysis of MHD rotating flow of $Fe_3O_4$ nanoparticles through a stretchable surface. <i>Communications in Theoretical Physics</i> , 2021, 73, 075004.	2.5	40
8	Study on heat transfer aspects of solar aircraft wings for the case of Reiner-Philippoff hybrid nanofluid past a parabolic trough: Keller box method. <i>Physica Scripta</i> , 2021, 96, 095220.	2.5	40
9	Micropolar fluid past a convectively heated surface embedded with nth order chemical reaction and heat source/sink. <i>Physica Scripta</i> , 2021, 96, 104010.	2.5	39
10	Thermal analysis on Darcy-Forchheimer swirling Casson hybrid nanofluid flow inside parallel plates in parabolic trough solar collector: An application to solar aircraft. <i>International Journal of Energy Research</i> , 2021, 45, 20812-20834.	4.5	38
11	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
12	Implementing renewable solar energy in presence of Maxwell nanofluid in parabolic trough solar collector: a computational study. <i>Waves in Random and Complex Media</i> , 0, 1-32.	2.7	31
13	Hydrogen energy storage optimization in solar-HVAC using Sutterby nanofluid via Koo-Kleinstreuer and Li (KKL) correlations model: A solar thermal application. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18877-18891.	7.1	31
14	Numerical simulation of magnetohydrodynamic Jeffrey nanofluid flow and heat transfer over a stretching sheet considering Joule heating and viscous dissipation. <i>AIP Advances</i> , 2018, 8, .	1.3	29
15	MHD tangent hyperbolic nanofluid with chemical reaction, viscous dissipation and Joule heating effects. <i>AIP Advances</i> , 2019, 9, .	1.3	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	Partial velocity slip effect on working magneto non-Newtonian nanofluids flow in solar collectors subject to change viscosity and thermal conductivity with temperature. <i>PLoS ONE</i> , 2021, 16, e0259881.	2.5	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	Water driven Cu nanoparticles between two concentric ducts with oscillatory pressure gradient. <i>Journal of Molecular Liquids</i> , 2016, 224, 322-332.	4.9	24
20	Computational analysis of Ohmic and viscous dissipation effects on MHD heat transfer flow of -PVA Jeffrey nanofluid through a stretchable surface. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101148.	5.7	23
21	Impact of gold nanoparticles along with Maxwell velocity and Smoluchowski temperature slip boundary conditions on fluid flow: Sutterby model. <i>Chinese Journal of Physics</i> , 2022, 77, 1387-1404.	3.9	21
22	The improved thermal efficiency of Prandtl-Eyring hybrid nanofluid via classical Keller box technique. <i>Scientific Reports</i> , 2021, 11, 23535.	3.3	21
23	Impact of double-diffusive convection and motile gyrotactic microorganisms on magnetohydrodynamics bioconvection tangent hyperbolic nanofluid. <i>Open Physics</i> , 2020, 18, 74-88.	1.7	20
24	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
25	Impact of Maxwell velocity slip and Smoluchowski temperature slip on CNTs with modified Fourier theory: Reiner-Philippoff model. <i>PLoS ONE</i> , 2021, 16, e0258367.	2.5	18
26	Flow and heat transport phenomenon for dynamics of Jeffrey nanofluid past stretchable sheet subject to Lorentz force and dissipation effects. <i>Scientific Reports</i> , 2021, 11, 22924.	3.3	17
27	Thermal valuation and entropy inspection of second-grade nanoscale fluid flow over a stretching surface by applying Koo-Kleinstreuer-Li relation. <i>Nanotechnology Reviews</i> , 2022, 11, 2061-2077.	5.8	15
28	Dynamical irreversible processes analysis of Poiseuille magneto-hybrid nanofluid flow in microchannel: A novel case study. <i>Waves in Random and Complex Media</i> , 0, , 1-23.	2.7	12
29	Efficiency evaluation of solar water-pump using nanofluids in parabolic trough solar collector: 2nd order convergent approach. <i>Waves in Random and Complex Media</i> , 0, , 1-37.	2.7	12
30	Thermal analysis for $\text{Na}_2\text{O}$ -sodium alginate magnetized Jeffrey's nanofluid flow past a stretching sheet embedded in a porous medium. <i>Scientific Reports</i> , 2022, 12, 3287.	3.3	10
31	Raising thermal efficiency of solar water-pump using Oldroyd-B nanofluids' flow: An optimal thermal application. <i>Energy Science and Engineering</i> , 2022, 10, 4286-4303.	4.0	8
32	Computational examination of Jeffrey nanofluid through a stretchable surface employing Tiwari and Das model. <i>Open Physics</i> , 2021, 19, 897-911.	1.7	7
33	Heat Transfer Simulation for 3D MHD Rotating Hybrid NanoFluid Flow Between Parallel Plates in Parabolic Trough Solar Collector: A Numerical Study. <i>Journal of Engineering Thermophysics</i> , 2021, 30, 704-726.	1.4	7
34	Numerical Solution of Rotating Flow of a Nanofluid Over a Stretching Surface in the Presence of Magnetic Field. <i>Journal of Nanofluids</i> , 2019, 8, 359-370.	2.7	5
35	Thermal cooling process by nanofluid flowing near stagnating point of expanding surface under induced magnetism force: A computational case study. <i>Case Studies in Thermal Engineering</i> , 2022, 36, 102190.	5.7	4
36	Transport of MHD nanofluid in a stratified medium containing gyrotactic microorganisms due to a stretching sheet. <i>Scientia Iranica</i> , 2021, .	0.4	2

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37	Stratified heat transfer of magneto-tangent hyperbolic bio-nanofluid flow with gyrotactic microorganisms: Keller-Box solution technique. Open Physics, 2021, 19, 568-582.	1.7	1