Taza Gul

List of Publications by Year in descending order

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132	3,580	30	48
papers	citations	h-index	g-index
132	132	132	1153 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	The electrical MHD and Hall current impact on micropolar nanofluid flow between rotating parallel plates. Results in Physics, 2018, 9, 1201-1214.	4.1	181
2	Magnetohydrodynamic Nanoliquid Thin Film Sprayed on a Stretching Cylinder with Heat Transfer. Applied Sciences (Switzerland), 2017, 7, 271.	2.5	126
3	Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .	1.3	120
4	Hybrid nanofluid flow within the conical gap between the cone and the surface of a rotating disk. Scientific Reports, 2021, 11, 1180.	3.3	95
5	Thin film flow of a second grade fluid in a porous medium past a stretching sheet with heat transfer. AEJ - Alexandria Engineering Journal, 2018, 57, 1019-1031.	6.4	93
6	Mixed convection in gravity-driven thin film non-Newtonian nanofluids flow with gyrotactic microorganisms. Results in Physics, 2017, 7, 4033-4049.	4.1	86
7	Thermophoresis and thermal radiation with heat and mass transfer in a magnetohydrodynamic thin-film second-grade fluid of variable properties past a stretching sheet. European Physical Journal Plus, 2017, 132, 1.	2.6	84
8	Impact of thermal radiation on electrical MHD rotating flow of Carbon nanotubes over a stretching sheet. AIP Advances, 2019, 9, .	1.3	77
9	Three dimensional third grade nanofluid flow in a rotating system between parallel plates with Brownian motion and thermophoresis effects. Results in Physics, 2018, 10, 36-45.	4.1	76
10	Magnetic Dipole Impact on the Hybrid Nanofluid Flow over an Extending Surface. Scientific Reports, 2020, 10, 8474.	3.3	76
11	Three-dimensional rotating flow of MHD single wall carbon nanotubes over a stretching sheet in presence of thermal radiation. Applied Nanoscience (Switzerland), 2018, 8, 1361-1378.	3.1	73
12	The experimental study to examine the stable dispersion of the graphene nanoparticles and to look at the $GOae^{H2O}$ nanofluid flow between two rotating disks. Applied Nanoscience (Switzerland), 2018, 8, 1711-1727.	3.1	73
13	MHD hybrid nanofluid flow comprising the medication through a blood artery. Scientific Reports, 2021, 11, 11621.	3.3	70
14	Brownian Motion and Thermophoresis Effects on MHD Mixed Convective Thin Film Second-Grade Nanofluid Flow with Hall Effect and Heat Transfer Past a Stretching Sheet. Journal of Nanofluids, 2017, 6, 812-829.	2.7	68
15	Darcy Forchheimer nanofluid thin film flow of SWCNTs and heat transfer analysis over an unsteady stretching sheet. AIP Advances, 2019, 9, .	1.3	63
16	Hybrid nanofluid flow in a Darcy-Forchheimer permeable medium over a flat plate due to solar radiation. Case Studies in Thermal Engineering, 2021, 26, 100955.	5.7	62
17	MHD Thin Film Flow and Thermal Analysis of Blood with CNTs Nanofluid. Coatings, 2019, 9, 175.	2.6	60
18	Influence of Inclined Magnetic Field on Carreau Nanoliquid Thin Film Flow and Heat Transfer with Graphene Nanoparticles. Energies, 2019, 12, 1459.	3.1	55

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19	Bio-convective micropolar nanofluid flow over thin moving needle subject to Arrhenius activation energy, viscous dissipation and binary chemical reaction. Case Studies in Thermal Engineering, 2021, 25, 100989.	5.7	53
20	Darcy-Forchheimer hybrid nanofluid flow over a stretching curved surface with heat and mass transfer. PLoS ONE, 2021, 16, e0249434.	2.5	48
21	Modeling and analysis of Tuberculosis (TB) in Khyber Pakhtunkhwa, Pakistan. Mathematics and Computers in Simulation, 2019, 165, 181-199.	4.4	47
22	Numerical Approximation of Microorganisms Hybrid Nanofluid Flow Induced by a Wavy Fluctuating Spinning Disc. Coatings, 2021, 11, 1032.	2.6	46
23	Three-Dimensional Casson Nanofluid Thin Film Flow over an Inclined Rotating Disk with the Impact of Heat Generation/Consumption and Thermal Radiation. Coatings, 2019, 9, 248.	2.6	44
24	Electromagnetic couple stress film flow of hybrid nanofluid over an unsteady rotating disc. International Communications in Heat and Mass Transfer, 2021, 127, 105562.	5.6	42
25	A convective study of Al2O3-H2O and Cu- H2O nano-liquid films sprayed over a stretching cylinder with viscous dissipation. European Physical Journal Plus, 2017, 132, 1.	2.6	40
26	Fractional Order Forced Convection Carbon Nanotube Nanofluid Flow Passing Over a Thin Needle. Symmetry, 2019, 11, 312.	2.2	40
27	Mixed convection stagnation point flow of the blood based hybrid nanofluid around a rotating sphere. Scientific Reports, 2021, 11, 7460.	3.3	40
28	Fractional order stagnation point flow of the hybrid nanofluid towards a stretching sheet. Scientific Reports, 2021, 11, 20429.	3.3	40
29	Hybrid nanofluid flow through a spinning Darcy–Forchheimer porous space with thermal radiation. Scientific Reports, 2021, 11, 16708.	3.3	39
30	Fractional-order three-dimensional thin-film nanofluid flow on an inclined rotating disk. European Physical Journal Plus, 2018, 133, 1.	2.6	38
31	Parametric simulation of micropolar fluid with thermal radiation across a porous stretching surface. Scientific Reports, 2022, 12, 2542.	3.3	38
32	Thin Film Williamson Nanofluid Flow with Varying Viscosity and Thermal Conductivity on a Time-Dependent Stretching Sheet. Applied Sciences (Switzerland), 2016, 6, 334.	2.5	36
33	The study of the entropy generation in a thin film flow with variable fluid properties past over a stretching sheet. Advances in Mechanical Engineering, 2018, 10, 168781401878952.	1.6	36
34	Thin film flow of the waterâ€based carbon nanotubes hybrid nanofluid under the magnetic effects. Heat Transfer, 2020, 49, 3211-3227.	3.0	36
35	Chemically reactive nanofluid flow past a thin moving needle with viscous dissipation, magnetic effects and hall current. PLoS ONE, 2021, 16, e0249264.	2.5	36
36	Impact of the Marangoni and thermal radiation convection on the graphene-oxide-water-based and ethylene-glycol-based nanofluids. Advances in Mechanical Engineering, 2019, 11, 168781401985677.	1.6	34

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37	Darcy-Forchheimer Hybrid Nano Fluid Flow with Mixed Convection Past an Inclined Cylinder. Computers, Materials and Continua, 2021, 66, 2025-2039.	1.9	34
38	Effective Prandtl Number Model Influences on the \$\$gamma {hbox {Al}}_2 {hbox {O}}_3\$\$ \hat{I}^3 Al 2 O 3 \hat{I}^3 \$\${hbox {H}}_2 {hbox {O}}\$\$ H 2 O and \$\$gamma {hbox {Al}}_2 {hbox {O}}_3\$\$ \hat{I}^3 Al 2 O 3 \hat{I}^3 \$\${hbox {C}}_2 {hbox {H}}_6 {hbox {O}}_2\$\$ C 2 H 6 O 2 Nanofluids Spray Along a Stretching Cylinder. Arabian Journal for Science and Engineering, 2019, 44, 1601-1616.	3.0	32
39	Axisymmetric hybrid nanofluid flow with heat and mass transfer amongst the two gyrating plates. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000146.	1.6	32
40	CNTs-Nanofluid flow in a Rotating system between the gap of a disk and cone. Physica Scripta, 2020, 95, 125202.	2.5	32
41	Boundary layer stagnation point flow of the Casson hybrid nanofluid over an unsteady stretching surface. AIP Advances, $2021,11,.$	1.3	31
42	Radiative swirl motion of hydromagnetic Casson nanofluid flow over rotary cylinder using Joule dissipation impact. Physica Scripta, 2021, 96, 045206.	2.5	30
43	Bioconvection casson nanofluid flow together with Darcy-Forchheimer due to a rotating disk with thermal radiation and arrhenius activation energy. SN Applied Sciences, 2021, 3, 1.	2.9	29
44	Fractional optimal control of COVID-19 pandemic model with generalized Mittag-Leffler function. Advances in Difference Equations, 2021, 2021, 387.	3.5	29
45	Non-linear convective flow of the thin film nanofluid over an inclined stretching surface. Scientific Reports, 2021, 11, 18410.	3.3	29
46	MHD Thin Film Flows of a Third Grade Fluid on a Vertical Belt with Slip Boundary Conditions. Journal of Applied Mathematics, 2013, 2013, 1-14.	0.9	28
47	Thin Film Flow in MHD Third Grade Fluid on a Vertical Belt with Temperature Dependent Viscosity. PLoS ONE, 2014, 9, e97552.	2.5	28
48	Viscous dissipated hybrid nanoliquid flow with Darcy–Forchheimer and forced convection over a moving thin needle. AIP Advances, 2020, 10, .	1.3	28
49	Blood based hybrid nanofluid flow together with electromagnetic field and couple stresses. Scientific Reports, 2021, 11, 12865.	3.3	28
50	Heat Transfer Analysis of MHD Thin Film Flow of an Unsteady Second Grade Fluid Past a Vertical Oscillating Belt. PLoS ONE, 2014, 9, e103843.	2.5	26
51	Flow of a Nano-Liquid Film of Maxwell Fluid with Thermal Radiation and Magneto Hydrodynamic Properties on an Unstable Stretching Sheet. Journal of Nanofluids, 2017, 6, 1021-1030.	2.7	25
52	Three non-Newtonian fluids flow considering thin film over an unsteady stretching surface with variable fluid properties. Advances in Mechanical Engineering, 2018, 10, 168781401880736.	1.6	23
53	Modeling the transmission dynamics of tuberculosis in Khyber Pakhtunkhwa Pakistan. Advances in Mechanical Engineering, 2019, 11, 168781401985483.	1.6	23
54	Magneto hydrodynamic and dissipated nanofluid flow over an unsteady turning disk. Advances in Mechanical Engineering, 2021, 13, 168781402110343.	1.6	23

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55	Bio-convectional Nanofluid Flow Due to the Thermophoresis and Gyrotactic Microorganism Between the Gap of a Disk and Cone. Brazilian Journal of Physics, 2021, 51, 687-697.	1.4	22
56	MHD thin film flow of the Oldroyd-B fluid together with bioconvection and activation energy. Case Studies in Thermal Engineering, 2021, 27, 101218.	5.7	22
57	Mathematical analysis of typhoid model with saturated incidence rate. Advanced Studies in Biology, 0, 7, 65-78.	0.3	22
58	The Flow of Blood-Based Hybrid Nanofluids with Couple Stresses by the Convergent and Divergent Channel for the Applications of Drug Delivery. Molecules, 2021, 26, 6330.	3.8	22
59	Fractional dynamics and stability analysis of COVID-19 pandemic model under the harmonic mean type incidence rate. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 619-640.	1.6	22
60	The Impact of Viscous Dissipation on the Thin Film Unsteady Flow of GO-EG/GO-W Nanofluids. Mathematics, 2019, 7, 653.	2.2	21
61	Entropy Generation for MHD Maxwell Nanofluid Flow Past a Porous and Stretching Surface with Dufour and Soret Effects. Brazilian Journal of Physics, 2021, 51, 469-480.	1.4	21
62	The impact of magnetohydrodynamic on bioconvection nanofluid flow with viscous dissipation and joule heating effects. Engineering Research Express, 2021, 3, 015030.	1.6	21
63	Insight into the dynamics of second grade hybrid radiative nanofluid flow within the boundary layer subject to Lorentz force. Scientific Reports, 2021, 11, 4894.	3.3	21
64	Unsteady MHD Thin Film Flow of an Oldroyd-B Fluid over an Oscillating Inclined Belt. PLoS ONE, 2015, 10, e0126698.	2.5	21
65	Impact of Thermal Radiation and Heat Source/Sink on Eyring–Powell Fluid Flow over an Unsteady Oscillatory Porous Stretching Surface. Mathematical and Computational Applications, 2018, 23, 20.	1.3	20
66	New version of Optimal Homotopy Asymptotic Method for the solution of nonlinear boundary value problems in finite and infinite intervals. AEJ - Alexandria Engineering Journal, 2016, 55, 2811-2819.	6.4	19
67	Integer and Non-Integer Order Study of the GO-W/GO-EG Nanofluids Flow by Means of Marangoni Convection. Symmetry, 2019, 11, 640.	2.2	19
68	Optimal control analysis of tuberculosis (TB) with vaccination and treatment. European Physical Journal Plus, 2020, 135, 1.	2.6	19
69	Analytical study of MHD mixed convection flow for Maxwell nanofluid with variable thermal conductivity and Soret and Dufour effects. AIP Advances, 2021, 11 , .	1.3	19
70	Irreversibility analysis of the couple stress hybrid nanofluid flow under the effect of electromagnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 642-659.	2.8	19
71	Darcy–Forchheimer couple stress hybrid nanofluids flow with variable fluid properties. Scientific Reports, 2021, 11, 19612.	3.3	19
72	Thermal Performance of the Graphene Oxide Nanofluids Flow in an Upright Channel Through a Permeable Medium. IEEE Access, 2019, 7, 102345-102355.	4.2	18

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73	Thin Film Flow of Micropolar Fluid in a Permeable Medium. Coatings, 2019, 9, 98.	2.6	18
74	The parametric computation of nonlinear convection magnetohydrodynamic nanofluid flow with internal heating across a fixed and spinning disk. Waves in Random and Complex Media, 0, , 1-16.	2.7	17
75	MHD Darcy-Forchheimer flow of Casson nanofluid due to a rotating disk with thermal radiation and Arrhenius activation energy. Journal of Physics Communications, 2021, 5, 025008.	1.2	16
76	Unsteady thermal Maxwell power law nanofluid flow subject to forced thermal Marangoni Convection. Scientific Reports, 2021, 11, 7521.	3.3	16
77	A fractional order HBV model with hospitalization. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 957-974.	1.1	16
78	The Brownian and Thermophoretic Analysis of the Non-Newtonian Williamson Fluid Flow of Thin Film in a Porous Space over an Unstable Stretching Surface. Applied Sciences (Switzerland), 2017, 7, 404.	2.5	15
79	SCATTERING OF A THIN LAYER OVER A NONLINEAR RADIALLY EXTENDING SURFACE WITH MAGNETO HYDRODYNAMIC AND THERMAL DISSIPATION. Surface Review and Letters, 2019, 26, 1850123.	1.1	15
80	MHD thin film flow of kerosene oil based CNTs nanofluid under the influence of Marangoni convection. Physica Scripta, 2020, 95, 015702.	2.5	15
81	Nonlinear mixed convection couple stress tri-hybrid nanofluids flow in a Darcy–Forchheimer porous medium over a nonlinear stretching surface. Waves in Random and Complex Media, 0, , 1-18.	2.7	13
82	A new analytical approach for the research of thinâ€film flow of magneto hydrodynamic fluid in the presence of thermal conductivity and variable viscosity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e201900292.	1.6	12
83	Magnetohydrodynamics thin film fluid flow under the effect of thermophoresis and variable fluid properties. AICHE Journal, 2017, 63, 5149-5158.	3.6	11
84	Magnetohydrodynamic Impact on Carreau Thin Film Couple Stress Nanofluid Flow over an Unsteady Stretching Sheet. Mathematical Problems in Engineering, 2021, 2021, 1-10.	1.1	11
85	Gravity-driven hydromagnetic flow of couple stress hybrid nanofluid with homogenous-heterogeneous reactions. Scientific Reports, 2021, 11, 17498.	3.3	11
86	Melting Heat Transition in a Spinning Flow of Silver-Magnesium Oxide/Engine Oil Hybrid Nanofluid Using Parametric Estimation. Journal of Nanomaterials, 2022, 2022, 1-13.	2.7	11
87	Heat Transfer Investigation of the Unsteady Thin Film Flow of Williamson Fluid Past an Inclined and Oscillating Moving Plate. Applied Sciences (Switzerland), 2017, 7, 369.	2.5	10
88	Effect of the Marangoni Convection in the Unsteady Thin Film Spray of CNT Nanofluids. Processes, 2019, 7, 392.	2.8	10
89	Instability of magneto hydro dynamics Couette flow for electrically conducting fluid through porous media. Applied Nanoscience (Switzerland), 2020, 10, 5125-5134.	3.1	10
90	Thin-film flow of Carreau fluid over a stretching surface including the couple stress and uniform magnetic field. Partial Differential Equations in Applied Mathematics, 2021, 4, 100162.	2.4	10

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91	Mixed convection and thermally radiative hybrid nanofluid flow over a curved surface. Advances in Mechanical Engineering, 2022, 14, 168781322210828.	1.6	10
92	Unsteady thin film flow of a fourth grade fluid over a vertical moving and oscillating belt. Propulsion and Power Research, 2016, 5, 223-235.	4.3	9
93	Solutions of nonlinear real world problems by a new analytical technique. Heliyon, 2018, 4, e00913.	3.2	9
94	Marangoni liquid film scattering over an extending cylinder. Theoretical and Applied Mechanics Letters, 2019, 9, 106-112.	2.8	9
95	Unsteady bioconvection Darcyâ€Forchheimer nanofluid flow through aÂhorizontal channel with impact of magnetic field and thermal radiation. Heat Transfer, 2021, 50, 3240-3264.	3.0	9
96	The magnetohydrodynamic flow of a nanofluidÂover a curved exponentially stretching surface. Heat Transfer, 2021, 50, 5356-5379.	3.0	8
97	Analysis of thin film flow over a vertical oscillating belt with a second grade fluid. Engineering Science and Technology, an International Journal, 2015, 18, 207-217.	3.2	7
98	The flow of nano-liquid film in the presence of operative Prandtl number model through an unsteady stretchable disc. AIP Advances, $2019, 9, .$	1.3	7
99	Unsteady Nano-Liquid Spray with Thermal Radiation Comprising CNTs. Processes, 2019, 7, 181.	2.8	7
100	Solution of nonlinear problems by a new analytical technique using Daftardar-Gejji and Jafari polynomials. Advances in Mechanical Engineering, 2019, 11, 168781401989696.	1.6	7
101	The flow of ferromagnetic nanofluid over an extending surface under the effect of operative Prandtl model: A numerical study. Advances in Mechanical Engineering, 2019, 11, 168781401989612.	1.6	7
102	The carbon-nanotube nanofluid sprayed on an unsteady stretching cylinder together with entropy generation. Advances in Mechanical Engineering, 2019, 11, 168781401989445.	1.6	7
103	Dufour and Soret Effect with Thermal Radiation on the Nano Film Flow of Williamson Fluid Past Over an Unsteady Stretching Sheet. Journal of Nanofluids, 2017, 6, 243-253.	2.7	7
104	Unsteady magnetohydrodynamics thin film flow of a third grade fluid over an oscillating inclined belt embedded in a porous medium. Thermal Science, 2017, 21, 875-887.	1.1	7
105	Prevention of Leptospirosis Infected Vector and Human Population by Multiple Control Variables. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.7	6
106	New similarity variable to transform the fluid flow from PDEs into fractional-order ODEs: Numerical study. Physica Scripta, 2021, 96, 084009.	2.5	6
107	Analysis of Ellis Fluid in Wire Coating. VFAST Transactions on Mathematics, 2015, 7, 1.	0.0	6
108	Comparative analysis of the CNTs nano fluid flow between the two gyrating disks. Advances in Mechanical Engineering, 2022, 14, 168781322210931.	1.6	6

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109	A simple algorithm for exact solutions of systems of linear and nonlinear integro-differential equations. Applied Mathematics and Computation, 2017, 307, 311-320.	2.2	5
110	The impact of the magnetic field and viscous dissipation on the thin film unsteady flow of GO-EG/GO-W nanofluids. Journal of Physics: Conference Series, 2019, 1366, 012031.	0.4	5
111	The impact of the Marangoni convection and magnetic field versus blood-based carbon nanotube nanofluids. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2020, 234, 37-46.	0.6	5
112	Stability analysis of an SVIR epidemic model with non-linear saturated incidence rate. Applied Mathematical Sciences, 0, 9, 1145-1158.	0.1	5
113	The unsteady liquid film flow of the carbon nanotubes engine oil nanofluid over a non-linear radially extending surface. Thermal Science, 2020, 24, 951-963.	1.1	5
114	Inï¬,uence of dynamics viscosity on the water base CNTs nanofluid flow over a stretching surface. Cogent Engineering, 2020, 7, 1772945.	2.2	4
115	A new analytical approach for solving nonlinear boundary value problems arising in nonlinear phenomena. Filomat, 2018, 32, 2489-2497.	0.5	4
116	The natural convective graphene oxide nanofluid flow in an upright squeezing channel. Thermal Science, 2019, 23, 1981-1989.	1.1	4
117	Two-Layer Coating Flows and Heat Transfer in Two Immiscible Third Grade Fluid. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5327-5342.	0.4	3
118	Effects of chemical reaction, viscosity, thermal conductivity, heat source, radiation/absorption, on MHD mixed convection nano-fluids flow over an unsteady stretching sheet by HAM and numerical method. Advances in Mechanical Engineering, 2022, 14, 168781402210743.	1.6	3
119	An improved form of optimal homotopy asymptotic method for the solution of a system of nonlinear coupled differential equations occurring in the phenomenon of fluid mechanics. AIP Conference Proceedings, 2019, , .	0.4	2
120	THIN FILM FLOW OF CNTs NANOFLUID OVER A THIN NEEDLE SURFACE. Surface Review and Letters, 2020, 27, 1950189.	1.1	2
121	Controlling of the melting through porous medium and magnetic field. Measurement and Control, 2021, 54, 779-789.	1.8	2
122	Heat Transmission in the Liquid Film Flow of Micropolar Fluid in a Poros Medium Over a Stretching Sheet with Thermal Radiation. Journal of Nanofluids, 2018, 7, 316-324.	2.7	2
123	Effect of the Number of Nozzles of Swirl Flow Generator Utilized in Flat Plate Solar Collector: An Entropic Analysis. International Journal of Photoenergy, 2021, 2021, 1-10.	2.5	2
124	Thin-film Maxwell hybrid nanofluid flow over an unsteady inclined stretching sheet in terms of nonlinear mixed convection. Waves in Random and Complex Media, 0, , 1-19.	2.7	2
125	Heat transfer and hydromagnetic effects on the unsteady thin film flow of Oldroyd-B fluid over an oscillating moving vertical plate. AIP Conference Proceedings, 2016, , .	0.4	1
126	The ADM solution of MHD non-Newtonian fluid with transient flow and heat transfer. AIP Conference Proceedings, 2016, , .	0.4	1

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127	Soret and Dufour effect on the thin film flow over an unsteady stretching surface. AIP Conference Proceedings, 2016, , .	0.4	1
128	Unsteady MHD flow and heat transfer of third grade fluid past on oscillating inclined belt. Science Postprint, 2015, 1 , .	0.3	1
129	Extinction and persistence of a stochastic delayed Covid-19 epidemic model. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 424-437.	1.6	1
130	Electro-Magnetohydrodynamic Fractional-Order Fluid Flow with New Similarity Transformations. Journal of Nanomaterials, 2022, 2022, 1-9.	2.7	1
131	Vibratory motion of fourth order fluid film over a unsteady heated flat. AIP Conference Proceedings, 2017, , .	0.4	0
132	The Heat and Mass Transfer Analysis During Bunch Coating of a Stretching Cylinder by Casson Fluid. , 2019, , .		0