

Mehboob Ali

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

633
citations

567144

15
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713332

21
g-index

44
all docs

44
docs citations

44
times ranked

351
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Modeling and COVID-19 Pandemic. <i>Studies in Systems, Decision and Control</i> , 2022, , 183-202.	0.8	0
2	An investigation of variable viscosity Carreau fluid and mixed convective stagnation point flow. <i>Pramana - Journal of Physics</i> , 2022, 96, 1.	0.6	1
3	Optimal control problem arising from COVID-19 transmission model with rapid-test. <i>Results in Physics</i> , 2022, 37, 105501.	2.0	7
4	Influence of homogeneous-heterogeneous reaction model for 3D Cross fluid flow: a comparative study. <i>Indian Journal of Physics</i> , 2021, 95, 315-323.	0.9	12
5	Dynamics models for identifying the key transmission parameters of the COVID-19 disease. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 757-765.	3.4	30
6	Theoretical analysis of cross-nanofluid flow with nonlinear radiation and magnetohydrodynamics. <i>Indian Journal of Physics</i> , 2021, 95, 481-488.	0.9	20
7	Spectral quasi equilibrium manifold and intrinsic low dimensional manifold: A multi-step reaction mechanism. <i>International Communications in Heat and Mass Transfer</i> , 2021, 121, 105098.	2.9	9
8	An optimised stability model for the magnetohydrodynamic fluid. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	0.9	13
9	Instability of magneto-hydro-dynamic flow of thermocapillary liquid layers of shear-thinning nanofluids with oxide nanoparticles in water. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 100998.	2.8	6
10	The quantitative role of chemical species in multi-route reaction: A mathematical paradigm. <i>Journal of Molecular Liquids</i> , 2021, 336, 116340.	2.3	5
11	Characteristics of generalized Fourier's heat flux and homogeneous-heterogeneous reactions in 3D flow of non-Newtonian cross fluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 3304-3318.	1.6	7
12	Exploring the physical aspects of nanofluid with entropy generation. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3215-3225.	1.6	22
13	Physical assessments on the invariant region in multi-route reaction mechanism. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 545, 122499.	1.2	10
14	Evaluation of synergistic effect of nanoparticles with antibiotics against enteric pathogens. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3337-3340.	1.6	6
15	Physical assessments on variable thermal conductivity and heat generation/absorption in cross magneto-flow model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1069-1078.	2.0	5
16	Numerical investigation on thermally radiative time-dependent Sisko nanofluid flow for curved surface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124012.	1.2	23
17	Synthesis of silver nanoparticles using leaves of <i>Catharanthus roseus</i> and their antimicrobial activity. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4459-4464.	1.6	22
18	Activation energy characteristics of chemically reacting species in multi-route complex reaction mechanism. <i>Indian Journal of Physics</i> , 2020, 94, 1795-1802.	0.9	12

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19	Numerical simulation for MHD flow of Casson nanofluid by heated surface. Applied Nanoscience (Switzerland), 2020, 10, 5391-5399.	1.6	17
20	The C-matrix augmentation in a multi-route reaction mechanism. Applied Nanoscience (Switzerland), 2020, 10, 5383-5390.	1.6	9
21	Numerical simulations for the equilibrium state and solution behaviors in the multi-phase catalytic reaction mechanism. International Communications in Heat and Mass Transfer, 2020, 118, 104818.	2.9	10
22	Characteristic of heat transfer in flow of Cross nanofluid during melting process. Applied Nanoscience (Switzerland), 2020, 10, 5201-5210.	1.6	25
23	A study of bacterial profile and antibiotic susceptibility pattern found in drinking water at district Mansehra, Pakistan. Applied Nanoscience (Switzerland), 2020, 10, 5435-5439.	1.6	2
24	A quantitative and qualitative analysis of the COVID-19 pandemic model. Chaos, Solitons and Fractals, 2020, 138, 109932.	2.5	37
25	Evaluation of steady-state to identify the fast-slow completion-route in the multi-route reaction mechanism. Applied Nanoscience (Switzerland), 2020, 10, 3405-3410.	1.6	12
26	Exploring the features of stratification phenomena for 3D flow of Cross nanofluid considering activation energy. International Communications in Heat and Mass Transfer, 2020, 116, 104674.	2.9	29
27	Numerical analysis of chemical reaction and non-linear radiation for magneto-cross nanofluid over a stretching cylinder. Applied Nanoscience (Switzerland), 2020, 10, 3259-3267.	1.6	17
28	A numerical treatment on rheology of mixed convective Carreau nanofluid with variable viscosity and thermal conductivity. Applied Nanoscience (Switzerland), 2020, 10, 3295-3303.	1.6	10
29	Vibrio cholerae dynamics in drinking water; mathematical and statistical analysis. Applied Nanoscience (Switzerland), 2020, 10, 4519-4522.	1.6	6
30	Instability of magneto hydro dynamics Couette flow for electrically conducting fluid through porous media. Applied Nanoscience (Switzerland), 2020, 10, 5125-5134.	1.6	10
31	The impact of the rate coefficient over the reaction mechanism. Applied Nanoscience (Switzerland), 2020, 10, 5375-5381.	1.6	9
32	Multi-route reaction mechanism and steady-state flow: a MATLAB-based analysis. Applied Nanoscience (Switzerland), 2020, 10, 3287-3294.	1.6	6
33	Optimised wave perturbation for the linear instability of magnetohydrodynamics in plane Poiseuille flow. Pramana - Journal of Physics, 2020, 94, 1.	0.9	9
34	Modeling multi-route reaction mechanism for surfaces: a mathematical and computational approach. Applied Nanoscience (Switzerland), 2020, 10, 5069-5076.	1.6	11
35	Important features of expanding/contracting cylinder for Cross magneto-nanofluid flow. Chaos, Solitons and Fractals, 2020, 133, 109656.	2.5	34
36	Isolation, identification and antibacterial study of pigmented bacteria. Applied Nanoscience (Switzerland), 2020, 10, 4495-4503.	1.6	10

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37	Balancing the chemical equations and their steady-state approximations in the complex reaction mechanism: linear algebra techniques. Applied Nanoscience (Switzerland), 2020, 10, 5247-5252.	1.6	4
38	Computational investigation of magneto-cross fluid flow with multiple slip along wedge and chemically reactive species. Results in Physics, 2020, 16, 102972.	2.0	25
39	Slow invariant manifolds and its approximation in a multi-route reaction mechanism: A case study of iodized H ₂ O mechanism. Journal of Molecular Liquids, 2019, 288, 111048.	2.3	20
40	Physical assessments on chemically reacting species and reduction schemes for the approximation of invariant manifolds. Journal of Molecular Liquids, 2019, 285, 237-243.	2.3	25
41	The reaction routes comparison with respect to slow invariant manifold and equilibrium points. AIP Advances, 2019, 9, .	0.6	27
42	Mathematical analysis of thermally radiative time-dependent Sisko nanofluid flow for curved surface. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3498-3514.	1.6	45
43	Complex Reactions and Dynamics. , 0, , .		13
44	Computational analysis on transition time-period in complex reaction mechanism. Applied Nanoscience (Switzerland), 0, , 1.	1.6	1