

Mehboob Ali

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4728173/publications.pdf>

Version: 2024-02-01

44
papers

633
citations

567144

15
h-index

713332

21
g-index

44
all docs

44
docs citations

44
times ranked

351
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | A quantitative and qualitative analysis of the COVID-19 pandemic model. Chaos, Solitons and Fractals, 2020, 138, 109932. | 2.5 | 37 |
| 3 | Important features of expanding/contracting cylinder for Cross magneto-nanofluid flow. Chaos, Solitons and Fractals, 2020, 133, 109656. | 2.5 | 34 |
| 4 | Dynamics models for identifying the key transmission parameters of the COVID-19 disease. AEJ - Alexandria Engineering Journal, 2021, 60, 757-765. | 3.4 | 30 |
| 5 | 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 |
| 6 | The reaction routes comparison with respect to slow invariant manifold and equilibrium points. AIP Advances, 2019, 9, . | 0.6 | 27 |
| 7 | 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 |
| 8 | Characteristic of heat transfer in flow of Cross nanofluid during melting process. Applied Nanoscience (Switzerland), 2020, 10, 5201-5210. | 1.6 | 25 |
| 9 | 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 |
| 10 | Numerical investigation on thermally radiative time-dependent Sisko nanofluid flow for curved surface. Physica A: Statistical Mechanics and Its Applications, 2020, 550, 124012. | 1.2 | 23 |
| 11 | Exploring the physical aspects of nanofluid with entropy generation. Applied Nanoscience (Switzerland), 2020, 10, 3215-3225. | 1.6 | 22 |
| 12 | Synthesis of silver nanoparticles using leaves of Catharanthus roseus and their antimicrobial activity. Applied Nanoscience (Switzerland), 2020, 10, 4459-4464. | 1.6 | 22 |
| 13 | 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 |
| 14 | Theoretical analysis of cross-nanofluid flow with nonlinear radiation and magnetohydrodynamics. Indian Journal of Physics, 2021, 95, 481-488. | 0.9 | 20 |
| 15 | Numerical simulation for MHD flow of Casson nanofluid by heated surface. Applied Nanoscience (Switzerland), 2020, 10, 5391-5399. | 1.6 | 17 |
| 16 | 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 |
| 17 | Complex Reactions and Dynamics. , 0, , . | | 13 |
| 18 | An optimised stability model for the magnetohydrodynamic fluid. Pramana - Journal of Physics, 2021, 95, 1. | 0.9 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Evaluation of steady-state to identify the fast-slow completion-route in the multi-route reaction mechanism. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3405-3410. | 1.6 | 12 |
| 21 | 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 |
| 22 | Modeling multi-route reaction mechanism for surfaces: a mathematical and computational approach. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5069-5076. | 1.6 | 11 |
| 23 | 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 |
| 24 | Numerical simulations for the equilibrium state and solution behaviors in the multi-phase catalytic reaction mechanism. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104818. | 2.9 | 10 |
| 25 | A numerical treatment on rheology of mixed convective Carreau nanofluid with variable viscosity and thermal conductivity. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3295-3303. | 1.6 | 10 |
| 26 | Instability of magneto hydro dynamics Couette flow for electrically conducting fluid through porous media. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5125-5134. | 1.6 | 10 |
| 27 | Isolation, identification and antibacterial study of pigmented bacteria. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4495-4503. | 1.6 | 10 |
| 28 | The C-matrix augmentation in a multi-route reaction mechanism. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5383-5390. | 1.6 | 9 |
| 29 | The impact of the rate coefficient over the reaction mechanism. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5375-5381. | 1.6 | 9 |
| 30 | Optimised wave perturbation for the linear instability of magnetohydrodynamics in plane Poiseuille flow. <i>Pramana - Journal of Physics</i> , 2020, 94, 1. | 0.9 | 9 |
| 31 | 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 |
| 32 | 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 |
| 33 | Optimal control problem arising from COVID-19 transmission model with rapid-test. <i>Results in Physics</i> , 2022, 37, 105501. | 2.0 | 7 |
| 34 | Evaluation of synergistic effect of nanoparticles with antibiotics against enteric pathogens. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3337-3340. | 1.6 | 6 |
| 35 | <i>Vibrio cholerae</i> dynamics in drinking water; mathematical and statistical analysis. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4519-4522. | 1.6 | 6 |
| 36 | Multi-route reaction mechanism and steady-state flow: a MATLAB-based analysis. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3287-3294. | 1.6 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | Balancing the chemical equations and their steady-state approximations in the complex reaction mechanism: linear algebra techniques. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5247-5252. | 1.6 | 4 |
| 41 | A study of bacterial profile and antibiotic susceptibility pattern found in drinking water at district Mansehra, Pakistan. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5435-5439. | 1.6 | 2 |
| 42 | Computational analysis on transition time-period in complex reaction mechanism. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1. | 1.6 | 1 |
| 43 | 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 |
| 44 | Dynamical Modeling and COVID-19 Pandemic. <i>Studies in Systems, Decision and Control</i> , 2022, , 183-202. | 0.8 | 0 |