

Irma ChacÃ³n

List of Publications by Year in descending order

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68
papers

2,369
citations

201674

27
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243625

44
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all docs

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docs citations

68
times ranked

1030
citing authors

#	ARTICLE	IF	CITATIONS
1	Cu-AlO/Water hybrid nanofluid through a permeable surface in the presence of nonlinear radiation and variable thermal conductivity via LSM. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1347-1356.	4.8	177
2	Shape effects of MoS ₂ nanoparticles on rotating flow of nanofluid along a stretching surface with variable thermal conductivity: A Galerkin approach. <i>International Journal of Heat and Mass Transfer</i> , 2018, 124, 706-714.	4.8	118
3	Dual solutions and stability analysis of flow and heat transfer of Casson fluid over a stretching sheet. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2400-2408.	2.1	108
4	Heat transfer and flow analysis of Casson fluid enclosed in a partially heated trapezoidal cavity. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104284.	5.6	93
5	Natural convection of water-based carbon nanotubes in a partially heated rectangular fin-shaped cavity with an inner cylindrical obstacle. <i>Physics of Fluids</i> , 2019, 31, .	4.0	92
6	Automated multi-class classification of skin lesions through deep convolutional neural network with dermoscopic images. <i>Computerized Medical Imaging and Graphics</i> , 2021, 88, 101843.	5.8	89
7	Hydromagnetic flow of ferrofluid in an enclosed partially heated trapezoidal cavity filled with a porous medium. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 499, 166241.	2.3	74
8	Least square study of heat transfer of water based Cu and Ag nanoparticles along a converging/diverging channel. <i>Journal of Molecular Liquids</i> , 2018, 249, 856-867.	4.9	66
9	Finite element analysis of hybrid nanofluid flow and heat transfer in a split lid-driven square cavity with Y-shaped obstacle. <i>Physics of Fluids</i> , 2020, 32, .	4.0	64
10	Numerical study of unsteady MHD flow of Williamson nanofluid in a permeable channel with heat source/sink and thermal radiation. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	61
11	A review on structure, extraction, and biological activities of polysaccharides isolated from <i>Cyclocarya paliurus</i> (Batalin) Iljinskaja. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 420-429.	7.5	59
12	Effects of volume fraction on water-based carbon nanotubes flow in a right-angle trapezoidal cavity: FEM based analysis. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104640.	5.6	56
13	Wavelets solution of MHD 3-D fluid flow in the presence of slip and thermal radiation effects. <i>Physics of Fluids</i> , 2018, 30, .	4.0	52
14	Numerical investigation of fractional-order unsteady natural convective radiating flow of nanofluid in a vertical channel. <i>AIMS Mathematics</i> , 2019, 4, 1416-1429.	1.6	51
15	Heat and fluid flow of water and ethylene-glycol based Cu-nanoparticles between two parallel squeezing porous disks: LSGM approach. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 888-895.	4.8	47
16	An efficient analysis for N-soliton, Lump and lumpâ€™kink solutions of time-fractional (2+1)-Kadomtsevâ€™Petviashvili equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 528, 121320.	2.6	45
17	Natural convection effects on heat and mass transfer of slip flow of time-dependent Prandtl fluid. <i>Journal of Computational Design and Engineering</i> , 2019, 6, 584-592.	3.1	45
18	A review on polysaccharides from <i>Artemisia sphaerocephala</i> Krasch seeds, their extraction, modification, structure, and applications. <i>Carbohydrate Polymers</i> , 2021, 252, 117113.	10.2	44

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19	Differential transform method for unsteady nanofluid flow and heat transfer. AEJ - Alexandria Engineering Journal, 2018, 57, 1867-1875.	6.4	43
20	Wavelet analysis of stagnation point flow of non-Newtonian nanofluid. Applied Mathematics and Mechanics (English Edition), 2019, 40, 1211-1226.	3.6	41
21	An efficient algorithm based on Gegenbauer wavelets for the solutions of variable-order fractional differential equations. European Physical Journal Plus, 2018, 133, 1.	2.6	40
22	Non-Newtonian fluid flow around a Y-shaped fin embedded in a square cavity. Journal of Thermal Analysis and Calorimetry, 2021, 143, 573-585.	3.6	38
23	Heat generation/absorption on MHD flow of a micropolar fluid over a heated stretching surface in the presence of the boundary parameter. Heat Transfer, 2021, 50, 6129-6147.	3.0	37
24	Novel operational matrices-based method for solving fractional-order delay differential equations via shifted Gegenbauer polynomials. Applied Mathematics and Computation, 2020, 372, 124985.	2.2	35
25	A Galerkin approach to analyze MHD flow of nanofluid along converging/diverging channels. Archive of Applied Mechanics, 2021, 91, 1907-1924.	2.2	33
26	Gegenbauer wavelets collocation-based scheme to explore the solution of free bio-convection of nanofluid in 3D nearby stagnation point. Neural Computing and Applications, 2019, 31, 8003-8019.	5.6	32
27	A Chelyshkov polynomial based algorithm to analyze the transport dynamics and anomalous diffusion in fractional model. Physica A: Statistical Mechanics and Its Applications, 2020, 551, 124227.	2.6	32
28	Examination of carbon-water nanofluid flow with thermal radiation under the effect of Marangoni convection. Engineering Computations, 2017, 34, 2330-2343.	1.4	30
29	Novel modification in wavelets method to analyze unsteady flow of nanofluid between two infinitely parallel plates. Chinese Journal of Physics, 2020, 66, 222-236.	3.9	30
30	Irreversibilities in natural convection inside a right-angled trapezoidal cavity with sinusoidal wall temperature. Physics of Fluids, 2021, 33, .	4.0	30
31	Investigation of heat and mass transfer under the influence of variable diffusion coefficient and thermal conductivity. Indian Journal of Physics, 2018, 92, 1109-1117.	1.8	28
32	Wavelet investigation of Soret and Dufour effects on stagnation point fluid flow in two dimensions with variable thermal conductivity and diffusivity. Physica Scripta, 2019, 94, 115219.	2.5	28
33	Exploration of uniform heat flux on the flow and heat transportation of ferrofluids along a smooth plate: Comparative investigation. International Journal of Biomathematics, 2018, 11, 1850048.	2.9	27
34	CVFEM modeling for nanofluid behavior involving non-equilibrium model and Lorentz effect in appearance of radiation. Physica A: Statistical Mechanics and Its Applications, 2019, 534, 122154.	2.6	27
35	Thermal non-equilibrium natural convection in a trapezoidal porous cavity with heated cylindrical obstacles. International Communications in Heat and Mass Transfer, 2021, 126, 105460.	5.6	27
36	A study of heat transfer analysis for squeezing flow of a Casson fluid via differential transform method. Neural Computing and Applications, 2018, 30, 3253-3264.	5.6	26

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37	Innovative operational matrices based computational scheme for fractional diffusion problems with the Riesz derivative. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	25
38	Brownian motion and thermophoretic effects on non-Newtonian nanofluid flow via Crankâ€Nicolson scheme. <i>Archive of Applied Mechanics</i> , 2021, 91, 3303-3313.	2.2	23
39	A stable computational approach to analyze semiâ€relativistic behavior of fractional evolutionary problems. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 122-136.	3.6	22
40	A robust scheme based on novelâ€operational matrices for some classes of timeâ€fractional nonlinear problems arising in mechanics and mathematical physics. <i>Numerical Methods for Partial Differential Equations</i> , 2020, 36, 1566-1600.	3.6	22
41	A spectral approach to analyze the nonlinear oscillatory fractional-order differential equations. <i>Chaos, Solitons and Fractals</i> , 2021, 146, 110921.	5.1	22
42	Brownian motion and thermophoresis effects on unsteady stagnation point flow of Eyringâ€Powell nanofluid: a Galerkin approach. <i>Communications in Theoretical Physics</i> , 2020, 72, 125005.	2.5	22
43	Rotating flow of nanofluid due to exponentially stretching surface: An optimal study. <i>Journal of Algorithms and Computational Technology</i> , 2019, 13, 174830261988136.	0.7	21
44	Operational-matrix-based algorithm for differential equations of fractional order with Dirichlet boundary conditions. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	20
45	Comparison of Lagrange multipliers for telegraph equations. <i>Ain Shams Engineering Journal</i> , 2018, 9, 2323-2328.	6.1	19
46	Unsteady flow and heat transfer of tangentâ€hyperbolic fluid: Legendre waveletâ€based analysis. <i>Heat Transfer</i> , 2021, 50, 3079-3093.	3.0	19
47	Synthesis of bimetallic nanoparticles loaded on to PNIPAM hybrid microgel and their catalytic activity. <i>Scientific Reports</i> , 2021, 11, 14759.	3.3	19
48	Numerical simulation of wavy porous enclosure filled with hybrid nanofluid involving Lorentz effect. <i>Physica Scripta</i> , 2020, 95, 115701.	2.5	18
49	Hybrid nanofluid flow around a triangular-shaped obstacle inside a split lid-driven trapezoidal cavity. <i>European Physical Journal: Special Topics</i> , 0, , .	2.6	17
50	An analysis of latent heat thermal energy storage in a hexagonal triplex-tube unit with curve shape fin and CNTs. <i>Case Studies in Thermal Engineering</i> , 2022, 36, 102241.	5.7	17
51	Linearized stable spectral method to analyze twoâ€dimensional nonlinear evolutionary and reactionâ€diffusion models. <i>Numerical Methods for Partial Differential Equations</i> , 2020, , .	3.6	16
52	Finite element analysis of water-based Ferrofluid flow in a partially heated triangular cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 3132-3147.	2.8	16
53	Computational analysis of radiative Williamson hybrid nanofluid comprising variable thermal conductivity. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 087004.	1.5	15
54	Hybrid fully spectral linearized scheme for timeâ€fractional evolutionary equations. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 3890-3912.	2.3	14

#	ARTICLE	IF	CITATIONS
55	Novel operational matrices-based finite difference/spectral algorithm for a class of time-fractional Burger equation in multidimensions. <i>Chaos, Solitons and Fractals</i> , 2021, 144, 110701.	5.1	13
56	Thermal treatment inside a partially heated triangular cavity filled with casson fluid with an inner cylindrical obstacle via FEM approach. <i>European Physical Journal: Special Topics</i> , 2022, 231, 2683-2694.	2.6	12
57	Investigation of shape effects of Cu-nanoparticle on heat transfer of MHD rotating flow over nonlinear stretching sheet. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4457-4466.	6.4	10
58	Fractional analysis of Jeffrey fluid over a vertical plate with time-dependent conductivity and diffusivity: A low-cost spectral approach. <i>Journal of Computational Science</i> , 2022, 63, 101769.	2.9	10
59	Galerkin time discretization for transmission dynamics of HBV with non-linear saturated incidence rate. <i>Applied Mathematics and Computation</i> , 2021, 410, 126481.	2.2	8
60	Fluid flow and heat transfer investigation of blood with nanoparticles through porous vessels in the presence of magnetic field. <i>Journal of Algorithms and Computational Technology</i> , 2019, 13, 174830181878866.	0.7	7
61	A New Operational Matrices-Based Spectral Method for Multi-Order Fractional Problems. <i>Symmetry</i> , 2020, 12, 1471.	2.2	7
62	Purification, characterization, and determination of biological activities of water-soluble polysaccharides from <i>Mahonia bealei</i> . <i>Scientific Reports</i> , 2022, 12, 8160.	3.3	7
63	In silico screening and identification of deleterious missense SNPs along with their effects on CD-209 gene: An insight to CD-209 related-diseases. <i>PLoS ONE</i> , 2021, 16, e0247249.	2.5	6
64	Linearized novel operational matrices-based scheme for classes of nonlinear time-space fractional unsteady problems in 2D. <i>Applied Numerical Mathematics</i> , 2021, 162, 351-373.	2.1	5
65	Thermal and Entropy generation analysis of magnetohydrodynamic tangent hyperbolic slip flow towards a stretching sheet. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892110411.	2.5	5
66	Neuronal dynamics and electrophysiology fractional model: A modified wavelet approach. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 570, 125805.	2.6	4
67	A symmetric property in the enhanced common index jump theorem with applications to the closed geodesic problem. <i>Discrete and Continuous Dynamical Systems</i> , 2022, 42, 1933.	0.9	2
68	Higher-order algorithms for stable solutions of fractional time-dependent nonlinear telegraph equations in space. <i>Numerical Methods for Partial Differential Equations</i> , 2022, 38, 1293-1318.	3.6	1