

Abderrahim Wakif

List of Publications by Year in descending order

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90
papers

3,633
citations

117625

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h-index

182427

51
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92
all docs

92
docs citations

92
times ranked

923
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal radiation and surface roughness effects on the thermo-magneto-hydrodynamic stability of alumina-copper oxide hybrid nanofluids utilizing the generalized Buongiorno's nanofluid model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1201-1220.	3.6	210
2	Novel Physical Insights into the Thermodynamic Irreversibilities Within Dissipative EMHD Fluid Flows Past over a Moving Horizontal Riga Plate in the Coexistence of Wall Suction and Joule Heating Effects: A Comprehensive Numerical Investigation. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 9423-9438.	3.0	144
3	Numerical Analysis of the Unsteady Natural Convection MHD Couette Nanofluid Flow in the Presence of Thermal Radiation Using Single and Two-Phase Nanofluid Models for Cu-Water Nanofluids. <i>International Journal of Applied and Computational Mathematics</i> , 2018, 4, 1.	1.6	135
4	Influence of a uniform transverse magnetic field on the thermo-hydrodynamic stability in water-based nanofluids with metallic nanoparticles using the generalized Buongiorno's mathematical model. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	131
5	Meta-analysis on thermo-migration of tiny/nano-sized particles in the motion of various fluids. <i>Chinese Journal of Physics</i> , 2020, 68, 293-307.	3.9	131
6	Numerical spectral examination of EMHD mixed convective flow of second-grade nanofluid towards a vertical Riga plate using an advanced version of the revised Buongiorno's nanofluid model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2379-2393.	3.6	121
7	Generalized differential quadrature analysis of unsteady three-dimensional MHD radiating dissipative Casson fluid conveying tiny particles. <i>Heat Transfer</i> , 2020, 49, 2595-2626.	3.0	110
8	A Novel Numerical Procedure for Simulating Steady MHD Convective Flows of Radiative Casson Fluids over a Horizontal Stretching Sheet with Irregular Geometry under the Combined Influence of Temperature-Dependent Viscosity and Thermal Conductivity. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-20.	1.1	103
9	Towards a new MHD non-homogeneous convective nanofluid flow model for simulating a rotating inclined thin layer of sodium alginate-based Iron oxide exposed to incident solar energy. <i>International Communications in Heat and Mass Transfer</i> , 2022, 130, 105800.	5.6	92
10	Numerical simulation of a thermally enhanced EMHD flow of a heterogeneous micropolar mixture comprising (60%)-ethylene glycol (EG), (40%)-water (W), and copper oxide nanomaterials (CuO). <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102046.	5.7	89
11	Numerical Differential Quadrature Examination of Steady Mixed Convection Nanofluid Flows Over an Isothermal Thin Needle Conveying Metallic and Metallic Oxide Nanomaterials: A Comparative Investigation. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5331-5346.	3.0	80
12	A semi-analytical analysis of electro-thermo-hydrodynamic stability in dielectric nanofluids using Buongiorno's mathematical model together with more realistic boundary conditions. <i>Results in Physics</i> , 2018, 9, 1438-1454.	4.1	78
13	Significances of blowing and suction processes on the occurrence of thermo-magneto-convection phenomenon in a narrow nanofluidic medium: A revised Buongiorno's nanofluid model. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100726.	5.7	78
14	Significance of suction and dual stretching on the dynamics of various hybrid nanofluids: Comparative analysis between type I and type II models. <i>Physica Scripta</i> , 2020, 95, 095205.	2.5	76
15	Numerical Scrutinization of Darcy-Forchheimer Relation in Convective Magnetohydrodynamic Nanofluid Flow Bounded by Nonlinear Stretching Surface in the Perspective of Heat and Mass Transfer. <i>Micromachines</i> , 2021, 12, 374.	2.9	70
16	Significance of nanoparticle's radius, heat flux due to concentration gradient, and mass flux due to temperature gradient: The case of Water conveying copper nanoparticles. <i>Scientific Reports</i> , 2021, 11, 1882.	3.3	70
17	Significance of variability in magnetic field strength and heat source on the radiative-convective motion of sodium alginate-based nanofluid within a Darcy-Brinkman porous structure bounded vertically by an irregular slender surface. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101428.	5.7	69
18	Numerical analysis of the onset of longitudinal convective rolls in a porous medium saturated by an electrically conducting nanofluid in the presence of an external magnetic field. <i>Results in Physics</i> , 2017, 7, 2134-2152.	4.1	67

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19	Heat transfers thermodynamic activity of a second-grade ternary nanofluid flow over a vertical plate with Atangana-Baleanu time-fractional integral. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 10045-10053.	6.4	66
20	Numerical investigation of EMHD nanofluid flows over a convectively heated riga pattern positioned horizontally in a Darcy-Forchheimer porous medium: application of passive control strategy and generalized transfer laws. <i>Waves in Random and Complex Media</i> , 0, , 1-20.	2.7	65
21	Numerical Examination of the Entropic Energy Harvesting in a Magnetohydrodynamic Dissipative Flow of Stokes's Second Problem: Utilization of the Gear-Generalized Differential Quadrature Method. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019, 44, 385-403.	4.2	63
22	Significance of nanoparticles' shape and thermo-hydrodynamic slip constraints on MHD alumina-water nanofluid flows over a rotating heated disk: The passive control approach. <i>International Communications in Heat and Mass Transfer</i> , 2021, 129, 105711.	5.6	63
23	Numerical Simulation of MHD Peristaltic Flow with Variable Electrical Conductivity and Joule Dissipation Using Generalized Differential Quadrature Method. <i>Communications in Theoretical Physics</i> , 2019, 71, 509.	2.5	62
24	Influence of Variable Transport Properties on Nonlinear Radioactive Jeffrey Fluid Flow Over a Disk: Utilization of Generalized Differential Quadrature Method. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 5987-5996.	3.0	62
25	New insights into the dynamics of alumina-(60% ethylene glycol+40% water) over an isothermal stretching sheet using a renovated Buongiorno's approach: A numerical GDQLM analysis. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105937.	5.6	62
26	Dynamics of radiative-reactive Walters-b fluid due to mixed convection conveying gyrotactic microorganisms, tiny particles experience haphazard motion, thermo-migration, and Lorentz force. <i>Physica Scripta</i> , 2021, 96, 125239.	2.5	61
27	Gear-generalized differential quadrature analysis of oscillatory convective Taylor-Couette flows of second-grade fluids subject to Lorentz and Darcy-Forchheimer quadratic drag forces. <i>International Communications in Heat and Mass Transfer</i> , 2021, 126, 105395.	5.6	57
28	A generalized differential quadrature algorithm for simulating magnetohydrodynamic peristaltic flow of blood-based nanofluid containing magnetite nanoparticles: A physiological application. <i>Numerical Methods for Partial Differential Equations</i> , 0, .	3.6	55
29	Second Law Analysis of Dissipative Nanofluid Flow over a Curved Surface in the Presence of Lorentz Force: Utilization of the Chebyshev-Gauss-Lobatto Spectral Method. <i>Nanomaterials</i> , 2019, 9, 195.	4.1	54
30	Multiple linear regression on bioconvective MHD hybrid nanofluid flow past an exponential stretching sheet with radiation and dissipation effects. <i>International Communications in Heat and Mass Transfer</i> , 2022, 135, 106115.	5.6	52
31	Significance of Rosseland's Radiative Process on Reactive Maxwell Nanofluid Flows over an Isothermally Heated Stretching Sheet in the Presence of Darcy-Forchheimer and Lorentz Forces: Towards a New Perspective on Buongiorno's Model. <i>Micromachines</i> , 2022, 13, 368.	2.9	51
32	Thermally Enhanced Darcy-Forchheimer Casson-Water/Glycerine Rotating Nanofluid Flow with Uniform Magnetic Field. <i>Micromachines</i> , 2021, 12, 605.	2.9	44
33	Significance of the inconstant viscosity and internal heat generation on the occurrence of Darcy-Brinkman convective motion in a couple-stress fluid saturated porous medium: An analytical solution. <i>International Communications in Heat and Mass Transfer</i> , 2021, 122, 105165.	5.6	42
34	Effects of fractional derivative and heat source/sink on MHD free convection flow of nanofluids in a vertical cylinder: A generalized Fourier's law model. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101518.	5.7	42
35	MHD Prandtl fluid flow past an isothermal permeable sphere with slip effects. <i>Case Studies in Thermal Engineering</i> , 2019, 14, 100447.	5.7	41
36	Numerical Entropic Analysis of Mixed MHD Convective Flows from a Non-Isothermal Vertical Flat Plate for Radiative Tangent Hyperbolic Blood Biofluids Conveying Magnetite Ferroparticles: Dual Similarity Solutions. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 5311-5330.	3.0	41

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37	Numerical Study of the Onset of Convection in a Newtonian Nanofluid Layer with Spatially Uniform and Non Uniform Internal Heating. <i>Journal of Nanofluids</i> , 2017, 6, 136-148.	2.7	40
38	Significance of magnetic field and activation energy on the features of stratified mixed radiative-convective couple-stress nanofluid flows with motile microorganisms. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 1425-1436.	6.4	39
39	Numerical exploration of MHD falkner-skam-sutterby nanofluid flow by utilizing an advanced non-homogeneous two-phase nanofluid model and non-fourier heat-flux theory. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 4851-4864.	6.4	38
40	Numerical investigations on magnetic field modeling for Carreau non-Newtonian fluid flow past an isothermal sphere. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	36
41	Generalized differential quadrature scrutinization of an advanced <scp>MHD</scp> stability problem concerned water-based nanofluids with metal/metal oxide nanomaterials: A proper application of the revised two-phase nanofluid model with convective heating and through-flow boundary conditions. <i>Numerical Methods for Partial Differential Equations</i> , 0, .	3.6	35
42	MAGNETO-CONVECTION OF ALUMINA - WATER NANOFLUID WITHIN THIN HORIZONTAL LAYERS USING THE REVISED GENERALIZED BUONGIORNO'S MODEL. <i>Frontiers in Heat and Mass Transfer</i> , 2018, 12, .	0.2	33
43	Numerical simulation of a nonlinear coupled differential system describing a convective flow of Casson gold-blood nanofluid through a stretched rotating rigid disk in the presence of Lorentz forces and nonlinear thermal radiation. <i>Numerical Methods for Partial Differential Equations</i> , 0, , .	3.6	32
44	A Brief Technical Note on the Onset of Convection in a Horizontal Nanofluid Layer of Finite Depth via Wakif-Galerkin Weighted Residuals Technique (WGWRT). <i>Defect and Diffusion Forum</i> , 0, 409, 90-94.	0.4	32
45	Generalized differential quadrature analysis of electro-magneto-hydrodynamic dissipative flows over a heated Riga plate in the presence of a space-dependent heat source: The case for strong suction effect. <i>Heat Transfer</i> , 2022, 51, 2063-2078.	3.0	31
46	Irreversibility Analysis of Dissipative Fluid Flow Over A Curved Surface Stimulated by Variable Thermal Conductivity and Uniform Magnetic Field: Utilization of Generalized Differential Quadrature Method. <i>Entropy</i> , 2018, 20, 943.	2.2	30
47	Second Law Analysis of Unsteady MHD Viscous Flow over a Horizontal Stretching Sheet Heated Non-Uniformly in the Presence of Ohmic Heating: Utilization of Gear-Generalized Differential Quadrature Method. <i>Entropy</i> , 2019, 21, 240.	2.2	29
48	Mixed Convective Radiative Flow through a Slender Revolution Bodies Containing Molybdenum-Disulfide Graphene Oxide along with Generalized Hybrid Nanoparticles in Porous Media. <i>Crystals</i> , 2020, 10, 771.	2.2	24
49	Application of Arrhenius kinetics on MHD radiative Von Kármán Casson nanofluid flow occurring in a Darcy-Forchheimer porous medium in the presence of an adjustable heat source. <i>Physica Scripta</i> , 2021, 96, 125228.	2.5	21
50	Bioconvection: Significance of mixed convection and mhd on dynamics of Casson nanofluid in the stagnation point of rotating sphere via finite element simulation. <i>Mathematics and Computers in Simulation</i> , 2022, 194, 254-268.	4.4	21
51	Effects of Wavy Wall Amplitudes on Mixed Convection Heat Transfer in a Ventilated Wavy Cavity Filled by Copper-Water Nanofluid Containing a Central Circular Cold Body. <i>Journal of Nanofluids</i> , 2018, 8, 1170-1178.	2.7	19
52	Analysis of entropy generation and biomechanical investigation of MHD Jeffery fluid through a vertical non-uniform channel. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101538.	5.7	19
53	Significance of Darcy-Forchheimer and Lorentz forces on radiative alumina-water nanofluid flows over a slippery curved geometry under multiple convective constraints: a renovated Buongiorno's model with validated thermophysical correlations. <i>Waves in Random and Complex Media</i> , 0, , 1-30.	2.7	19
54	Numerical study of natural and mixed convection in a square cavity filled by a Cu-water nanofluid with circular heating and cooling cylinders. <i>Mechanics and Industry</i> , 2017, 18, 502.	1.3	18

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55	Significance of nanoparticle radius, interparticle spacing, inclined magnetic field, and space-dependent internal heating: The case of chemically reactive water conveying copper nanoparticles. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, .	1.6	18
56	Significance of Buoyancy, Velocity Index and Thickness of an Upper Horizontal Surface of a Paraboloid of Revolution: The Case of Non-Newtonian Carreau Fluid. Defect and Diffusion Forum, 2018, 387, 550-561.	0.4	17
57	Exploration of dual solutions for an enhanced cross liquid flow past a moving wedge under the significant impacts of activation energy and chemical reaction. Heliyon, 2020, 6, e04565.	3.2	17
58	Numerical Study of Mixed Convection of the Nanofluids in Two-Sided Lid-Driven Square Cavity with a Pair of Triangular Heating Cylinders. Journal of Engineering (United States), 2016, 2016, 1-8.	1.0	14
59	A Study on Non-Newtonian Transport Phenomena in Mhd Fluid Flow From a Vertical Cone With Navier Slip and Convective Heating. Nonlinear Engineering, 2019, 8, 534-545.	2.7	13
60	Numerical Examination of the Thermo-Electro-Hydrodynamic Convection in a Horizontal Dielectric Nanofluid Layer Using the Power Series Method. Journal of Nanofluids, 2019, 8, 117-131.	2.7	13
61	A one-phase Stefan problem with size-dependent thermal conductivity and moving phase change material under the most generalized boundary condition. Waves in Random and Complex Media, 0, , 1-29.	2.7	13
62	Dynamics of water conveying copper and alumina nanomaterials when viscous dissipation and thermal radiation are significant: Single-phase model with multiple solutions. Mathematical Methods in the Applied Sciences, 2023, 46, 11603-11617.	2.3	12
63	Haar wavelet scrutinization of heat and mass transfer features during the convective boundary layer flow of a nanofluid moving over a nonlinearly stretching sheet. Partial Differential Equations in Applied Mathematics, 2021, 4, 100192.	2.4	11
64	Finite Volume Analysis of Free Convection Heat Transfer in a Square Enclosure Filled by a Cu-Water Nanofluid Containing Different Shapes of Heating Cylinder. Journal of Nanofluids, 2017, 6, 761-768.	2.7	10
65	Significance of Lorentz forces on Jeffrey nanofluid flows over a convectively heated flat surface featured by multiple velocity slips and dual stretching constraint: a homotopy analysis approach. Journal of Computational Design and Engineering, 2022, 9, 564-582.	3.1	10
66	Numerical simulation of entropy transport in the oscillating fluid flow with transpiration and internal fluid heating by GGDQM. Waves in Random and Complex Media, 0, , 1-19.	2.7	10
67	Effects of Variable Fluid Properties on Oblique Stagnation Point Flow of a Casson Nanofluid with Convective Boundary Conditions. Defect and Diffusion Forum, 0, 401, 183-196.	0.4	9
68	Numerical Study of a Williamson Fluid Past a Semi-Infinite Vertical Plate with Convective Heating and Radiation Effects. , 0, 28, 1-15.		9
69	HEAT TRANSFER AND CU-WATER NANOFLUID FLOW IN A VENTILATED CAVITY HAVING CENTRAL COOLING CYLINDER AND HEATED FROM THE BELOW CONSIDERING THREE DIFFERENT OUTLET PORT LOCATIONS. Frontiers in Heat and Mass Transfer, 0, 11, .	0.2	8
70	Significance of deposition and diffusion retention on the performance of the composite membrane. Waves in Random and Complex Media, 0, , 1-14.	2.7	8
71	Numerical Study of Forced, Mixed and Natural Convection of Nanofluids Inside a Ventilated Cavity Containing Different Shapes of Cold Block. Journal of Nanofluids, 2019, 8, 439-447.	2.7	7
72	Heat Transfer Analysis on Squeezing Unsteady MHD Nanofluid Flow Between Two Parallel Plates Considering Thermal Radiation, Magnetic and Viscous Dissipations Effects a Solution by Using Homotopy Perturbation Method. Sensor Letters, 2020, 18, 113-121.	0.4	7

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73	Numerical Modeling of Natural Convection Heat Transfer in a Wavy Wall Enclosure Filled by a Cu-water Nanofluid with a Square Cooler. <i>Journal of Nanofluids</i> , 2017, 6, 324-333.	2.7	6
74	MODELING OF FREE CONVECTION HEAT TRANSFER ENHANCEMENT UTILIZING NANOFLUID INSIDE A WAVY WAL ENCLOSURE WITH A PAIR OF HOT AND COLD CYLINDERS. <i>Frontiers in Heat and Mass Transfer</i> , 0, 8, .	0.2	6
75	Numerical Investigation of Mixed Convection Heat Transfer of Nanofluid in a Lid Driven Square Cavity with Three Triangular Heating Blocks. <i>International Journal of Computer Applications</i> , 2016, 143, 37-45.	0.2	6
76	Electro-kinetically modulated peristaltic mechanism of Jeffrey liquid through a micro-channel with variable viscosity. <i>Thermal Science</i> , 2021, 25, 271-277.	1.1	6
77	A Note on the Similar and Non-Similar Solutions of Powell-Eyring Fluid Flow Model and Heat Transfer over a Horizontal Stretchable Surface. <i>Defect and Diffusion Forum</i> , 0, 401, 25-35.	0.4	5
78	Magnetohydrodynamic peristaltic flow of Bingham fluid in a channel: An application to blood flow. <i>Journal of Mechanical Engineering and Sciences</i> , 2021, 15, 8082-8094.	0.6	5
79	A comprehensive entropic scrutiny of dissipative flows over a thin needle featured by variable thermophysical properties. <i>Waves in Random and Complex Media</i> , 0, , 1-17.	2.7	5
80	Effects of Wuâ€™s Slip and Non-Uniform Source/Sink on Entropy Optimized Radiative Magnetohydrodynamic Up/Down Flow of Nanofluids. <i>Journal of Nanofluids</i> , 2022, 11, 305-317.	2.7	5
81	Numerical Study of a Thermal Convection Induced by a Purely Internal Heating in a Rotating Medium Saturated by a Radiating Nanofluid. <i>International Journal of Computer Applications</i> , 2016, 135, 33-42.	0.2	4
82	Semi-Analytical Resolution of a Squeezing Unsteady Nanofluid Flow Between Two Parallel Plates Using Homotopy Perturbation Method (HPM). <i>WSEAS Transactions on Heat and Mass Transfer</i> , 2021, 16, 1-13.	0.4	3
83	Couple stress flow of exponentially stretching sheet with Cattaneoâ€™Christov heat flux model. <i>Heat Transfer</i> , 2022, 51, 4819-4832.	3.0	3
84	Physical insights into the effects of quantum dots size and temperature on efficiency of InAs/GaAs quantum dots intermediate band solar cell. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 547, 123786.	2.6	2
85	Analytical and Numerical Study of the Onset of Electroconvection in a Dielectric Nanofluid Saturated a Rotating Darcy Porous Medium. <i>International Journal of Advanced Computer Science and Applications</i> , 2016, 7, .	0.7	2
86	COMPREHENSIVE EXAMINATION OF THE THREE-DIMENSIONAL ROTATING FLOW OF A UCM NANOLIQUID OVER AN EXPONENTIALLY STRETCHABLE CONVECTIVE SURFACE UTILIZING THE OPTIMAL HOMOTOPY ANALYSIS METHOD. <i>Frontiers in Heat and Mass Transfer</i> , 0, 14, .	0.2	2
87	Numerical exploration of mixed convection heat transfer features within a copper-water nanofluidic medium occupied a square geometrical cavity. <i>Mathematical Modeling and Computing</i> , 2021, 8, 807-820.	1.0	2
88	Effects of the Form Factor and the Force of the Gravity on the Thermal Exchanges by Natural Convection in a Rectangular Cavity Filled with Nanofluid. <i>Engineering</i> , 2019, 11, 59-73.	0.8	1
89	Fourth-Order Compact Formulation for the Resolution of Heat Transfer in Natural Convection of Water-Cu Nanofluid in a Square Cavity with a Sinusoidal Boundary Thermal Condition. <i>World Journal of Nano Science and Engineering</i> , 2016, 06, 70-89.	0.3	1
90	Analytical Study of Heat Transfer of a Unsteady Newtonian Nanofluid Flow Problem. <i>WSEAS Transactions on Heat and Mass Transfer</i> , 2020, 15, 184-194.	0.4	1