

Wael Al-Kouz

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

1,832
citations

236833

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h-index

377752

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docs citations

96
times ranked

849
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational investigation of heat transfer in a flow subjected to magnetohydrodynamic of Maxwell nanofluid over a stretched flat sheet with thermal radiation. <i>Numerical Methods for Partial Differential Equations</i> , 2023, 39, 3499-3519.	2.0	26
2	MHD mixed convection of a Cu-water nanofluid flow through a channel with an open trapezoidal cavity and an elliptical obstacle. <i>Heat Transfer</i> , 2022, 51, 1691-1710.	1.7	11
3	Effect of a rotating cylinder on the 3D MHD mixed convection in a phase change material filled cubic enclosure. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 51, 101879.	1.7	14
4	Numerical analysis of Casson nanofluid three-dimensional flow over a rotating frame exposed to a prescribed heat flux with viscous heating. <i>Scientific Reports</i> , 2022, 12, 4256.	1.6	15
5	Dynamics analysis of a novel hybrid deep clustering for unsupervised learning by reinforcement of multi-agent to energy saving in intelligent buildings. <i>Applied Energy</i> , 2022, 313, 118863.	5.1	25
6	Hydrothermal and Entropy Investigation of Nanofluid Natural Convection in a Lid-Driven Cavity Concentric with an Elliptical Cavity with a Wavy Boundary Heated from Below. <i>Nanomaterials</i> , 2022, 12, 1392.	1.9	20
7	Three-dimensional numerical analysis of flow and heat transfer of bi-directional stretched nanofluid film exposed to an exponential heat generation using modified Buongiorno model. <i>Scientific Reports</i> , 2022, 12, .	1.6	15
8	Entropy Generation and Statistical Analysis of MHD Hybrid Nanofluid Unsteady Squeezing Flow between Two Parallel Rotating Plates with Activation Energy. <i>Nanomaterials</i> , 2022, 12, 2381.	1.9	21
9	Magnetohydrodynamic (MHD) Convective Nanofluid Flow, Heat Transfer and Irreversibility Analysis in a Horizontal Micro Tall Cavity with Heat Sources in the Slip Regime. <i>Journal of Nanofluids</i> , 2022, 11, 510-527.	1.4	10
10	Periodically fully developed nanofluid transport through a wavy module. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 779-791.	2.0	19
11	Numerical analysis of rarefied gaseous flows in a square partially heated two-sided wavy cavity with internal heat generation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 311-323.	2.0	10
12	Computation of storage power and energy to stabilize a wind and solar only Australian National Electricity Market grid. <i>Energy Storage</i> , 2021, 3, e131.	2.3	5
13	Significance of quadratic thermal radiation and quadratic convection on boundary layer two-phase flow of a dusty nanofluid past a vertical plate. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105029.	2.9	61
14	MHD conjugate heat transfer and entropy generation analysis of MWCNT/water nanofluid in a partially heated divided medium. <i>Heat Transfer</i> , 2021, 50, 126-144.	1.7	22
15	Utilization of updated version of heat flux model for the radiative flow of a non-Newtonian material under Joule heating: OHAM application. <i>Open Physics</i> , 2021, 19, 100-110.	0.8	22
16	Design of a 100 MW Concentrated Solar Power Plant Parabolic Trough in Riyadh, Saudi Arabia. <i>E3S Web of Conferences</i> , 2021, 242, 01001.	0.2	1
17	Feasibility study of a hybrid photovoltaic/thermal collector system in the climate of Jordan. <i>Heat Transfer</i> , 2021, 50, 4435-4461.	1.7	1
18	Entropy Generation and MHD Convection within an Inclined Trapezoidal Heated by Triangular Fin and Filled by a Variable Porous Media. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1951.	1.3	11

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19	Hydrothermal and Entropy Investigation of Ag/MgO/H ₂ O Hybrid Nanofluid Natural Convection in a Novel Shape of Porous Cavity. Applied Sciences (Switzerland), 2021, 11, 1722.	1.3	52
20	Computational analysis of gas permeability of slip flow through microannulus replete by based circular Sierpinski porous medium. Heat Transfer, 2021, 50, 4961-4977.	1.7	1
21	A review of flow and heat transfer in cavities and their applications. European Physical Journal Plus, 2021, 136, 1.	1.2	33
22	Studying the Performance of Cutting Carbon Fibre-Reinforced Plastic Using an Abrasive Water Jet Technique. Strojniski Vestnik/Journal of Mechanical Engineering, 2021, 67, 135-141.	0.6	2
23	Photovoltaic Panel Efficiency Improvement by using Direct Water Passive Cooling with Clay Pot. , 2021, , .		5
24	Natural convection of nanoliquid from elliptic cylinder in wavy enclosure under the effect of uniform magnetic field: numerical investigation. European Physical Journal Plus, 2021, 136, 1.	1.2	33
25	Energy and exergy efficiency analysis of solar still incorporated with copper plate and phosphate pellets as energy storage material. Environmental Science and Pollution Research, 2021, 28, 48628-48636.	2.7	36
26	A Review on the Erosion Mechanism in Cavitating Jets and Their Industrial Applications. Applied Sciences (Switzerland), 2021, 11, 3166.	1.3	15
27	Double-diffusive Air-CO ₂ mixture flow in a staggered cavity with numerous concave lower wall aspect ratios. European Physical Journal Plus, 2021, 136, 1.	1.2	9
28	Exponential heat source effects on the stagnation point heat transport of Williamson nanoliquid with nonlinear Boussinesq approximation. Heat Transfer, 2021, 50, 6645-6664.	1.7	3
29	Computational modeling of heat transfer in magneto non-Newtonian material in a circular tube with viscous and Joule heating. Heat Transfer, 2021, 50, 6703.	1.7	11
30	Spectral quasi-linearization and irreversibility analysis of magnetized cross fluid flow through a microchannel with two different heat sources and Newton boundary conditions. European Physical Journal Plus, 2021, 136, 1.	1.2	3
31	A study of quadratic thermal radiation and quadratic convection on viscoelastic material flow with two different heat source modulations. International Communications in Heat and Mass Transfer, 2021, 126, 105364.	2.9	31
32	Mixed convection analysis in a split lid-driven trapezoidal cavity having elliptic shaped obstacle. International Communications in Heat and Mass Transfer, 2021, 126, 105448.	2.9	23
33	Heat transfer of TiO ₂ ~ÆG nanoliquid with active and passive control of nanoparticles subject to nonlinear Boussinesq approximation. International Communications in Heat and Mass Transfer, 2021, 126, 105443.	2.9	32
34	Magneto hydrodynamics Natural Convection of a Triangular Cavity Involving Ag-MgO/Water Hybrid Nanofluid and Provided with Rotating Circular Barrier and a Quarter Circular Porous Medium at its Right-Angled Corner. Arabian Journal for Science and Engineering, 2021, 46, 12573-12597.	1.7	40
35	Numerical investigation of double-diffusive natural convection in a staggered cavity with two triangular obstacles. European Physical Journal Plus, 2021, 136, 1.	1.2	21
36	Effect of sheet thickness on the fusion zone temperature distribution, melt pool dimensions, mechanical properties, and microstructure in laser welding of Ti6Al4V alloy. Journal of Laser Applications, 2021, 33, .	0.8	2

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37	Galerkin finite element analysis of magneto two-phase nanofluid flowing in double wavy enclosure comprehending an adiabatic rotating cylinder. <i>Scientific Reports</i> , 2021, 11, 16494.	1.6	34
38	Comparative performance analysis of photovoltaic modules of different materials for four different climatic zone of India. <i>Urban Climate</i> , 2021, 39, 100957.	2.4	11
39	Significance of non-Fourier heat flux and radiation on PEG " Water based hybrid Nanofluid flow among revolving disks with chemical reaction and entropy generation optimization. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105572.	2.9	37
40	Galerkin finite element analysis of Darcy"Brinkman" Forchheimer natural convective flow in conical annular enclosure with discrete heat sources. <i>Energy Reports</i> , 2021, 7, 6172-6181.	2.5	30
41	Computational single phase comparative study of inclined MHD in" Powell" Eyring nanofluid. <i>Heat Transfer</i> , 2021, 50, 3879-3912.	1.7	10
42	Significance of exponential space"based heat source and inclined magnetic field on heat transfer of hybrid nanofluid with homogeneous" heterogeneous chemical reactions. <i>Heat Transfer</i> , 2021, 50, 4086-4102.	1.7	19
43	Computational analysis of the thermal performance of rarefied air flow in V-shaped microchannels. <i>Heat Transfer</i> , 2021, 50, 3977-3995.	1.7	1
44	Radiation effects on 3D rotating flow of Cu-water nanofluid with viscous heating and prescribed heat flux using modified Buongiorno model. <i>Scientific Reports</i> , 2021, 11, 20669.	1.6	13
45	Heat transfer and entropy generation analysis of water-Fe ₃ O ₄ /CNT hybrid magnetic nanofluid flow in a trapezoidal wavy enclosure containing porous media with the Galerkin finite element method. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	55
46	MHD darcy-forchheimer nanofluid flow and entropy optimization in an odd-shaped enclosure filled with a (MWCNT-Fe ₃ O ₄ /water) using galerkin finite element analysis. <i>Scientific Reports</i> , 2021, 11, 22635.	1.6	39
47	Review of Nanofluids and Their Biomedical Applications. <i>Journal of Nanofluids</i> , 2021, 10, 463-477.	1.4	12
48	Small Wind Turbine Blade Design and Optimization. <i>Symmetry</i> , 2020, 12, 18.	1.1	28
49	ANALYSIS OF EFFECTS OF SOLAR IRRADIANCE, CELL TEMPERATURE AND WIND SPEED ON PHOTOVOLTAIC SYSTEMS PERFORMANCE. <i>International Journal of Energy Economics and Policy</i> , 2020, 10, 353-359.	0.5	45
50	The energy future of Saudi Arabia. <i>E3S Web of Conferences</i> , 2020, 181, 03005.	0.2	3
51	Hybrid mesh finite element analysis (HMFEA) of uniformly heated cylinder in a partially heated moon shaped enclosure. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100713.	2.8	14
52	Heat transfer analysis on buoyantly convective non-Newtonian stream in a hexagonal enclosure rooted with T-Shaped flipper: Hybrid meshed analysis. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100725.	2.8	46
53	Thermal influence of homogeneously heated Y- shaped flipper on flowing stream in an unwavering rectangular domain. <i>Case Studies in Thermal Engineering</i> , 2020, 21, 100715.	2.8	6
54	On Behavioral Response of 3D Squeezing Flow of Nanofluids in a Rotating Channel. <i>Complexity</i> , 2020, 2020, 1-16.	0.9	9

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55	On Behavioral Response of Microstructural Slip on the Development of Magnetohydrodynamic Micropolar Boundary Layer Flow. Complexity, 2020, 2020, 1-12.	0.9	6
56	Heat transfer individualities due to evenly heated T-Shaped blade rooted in trapezium enclosure: Numerical analysis. Case Studies in Thermal Engineering, 2020, 22, 100778.	2.8	33
57	Thermally magnetized rectangular chamber optimization (TMRCO) of partially heated continuous stream: Hybrid meshed case study. Case Studies in Thermal Engineering, 2020, 22, 100770.	2.8	24
58	Enclosed trough solar thermal power plant with thermal energy storage and saltwater condenser in Al Khobar, Kingdom of Saudi Arabia. Renewable Energy Focus, 2020, 35, 132-147.	2.2	7
59	Capacity factors of solar photovoltaic energy facilities in California, annual mean and variability. E3S Web of Conferences, 2020, 181, 02004.	0.2	10
60	Hybrid meshed analysis on rhombus shaped solid material domain (RSSMD) equipped with non-Newtonian liquid stream. Journal of Science: Advanced Materials and Devices, 2020, 5, 476-486.	1.5	6
61	Cu-Al ₂ O ₃ Water Hybrid Nanofluid Transport in a Periodic Structure. Processes, 2020, 8, 285.	1.3	20
62	Numerical investigation of rarefied gaseous flows in an oblique wavy sided walls square cavity. International Communications in Heat and Mass Transfer, 2020, 116, 104719.	2.9	28
63	A 140 MW Solar Thermal Plant in Jordan. Processes, 2020, 8, 668.	1.3	4
64	Dynamics of thermally magnetized grooved flow field having uniformly heated circular cylinder: Finite element analysis. Case Studies in Thermal Engineering, 2020, 21, 100718.	2.8	17
65	Assessment of Existing Photovoltaic System with Cooling and Cleaning System: Case Study at Al-Khobar City. Processes, 2020, 8, 9.	1.3	19
66	Transverse Vibration of Functionally Graded Tapered Double Nanobeams Resting on Elastic Foundation. Applied Sciences (Switzerland), 2020, 10, 493.	1.3	15
67	Energy Storage for the Australian National Electricity Market Grid. E3S Web of Conferences, 2020, 160, 01006.	0.2	0
68	Validation of SAM Modeling of Concentrated Solar Power Plants. Energies, 2020, 13, 1949.	1.6	25
69	Design of a parabolic trough concentrated solar power plant in Al-Khobar, Saudi Arabia. E3S Web of Conferences, 2020, 160, 02005.	0.2	3
70	Photovoltaic Cooling Utilizing Phase Change Materials. E3S Web of Conferences, 2020, 160, 02004.	0.2	7
71	Variable Wall Permeability Effects on Flow and Heat Transfer in a Leaky Channel Containing Water-Based Nanoparticles. Processes, 2020, 8, 427.	1.3	1
72	Simulation of large PV energy facilities with SAM HCPV and PV detailed models. E3S Web of Conferences, 2020, 181, 03001.	0.2	6

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73	Computational exploration for radiative flow of Sutterby nanofluid with variable temperature-dependent thermal conductivity and diffusion coefficient. <i>Open Physics</i> , 2020, 18, 1073-1083.	0.8	54
74	A 140 MW solar thermal plant with storage in Maan, Jordan. <i>E3S Web of Conferences</i> , 2020, 181, 02001.	0.2	1
75	Rarefied flow and heat transfer characteristics of rectangular cavities with heated concave surface. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401986098.	0.8	10
76	Soldering of Passive Components Using Sn Nanoparticle Reinforced Solder Paste: Influence on Microstructure and Joint Strength. <i>Nanomaterials</i> , 2019, 9, 1478.	1.9	1
77	Entropy Generation Optimization for Rarefied Nanofluid Flows in a Square Cavity with Two Fins at the Hot Wall. <i>Entropy</i> , 2019, 21, 103.	1.1	31
78	Modeling and Analysis Framework for Investigating the Impact of Dust and Temperature on PV Systems Performance and Optimum Cleaning Frequency. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1397.	1.3	39
79	Heat Transfer and Entropy Generation Abilities of MWCNTs/GNPs Hybrid Nanofluids in Microtubes. <i>Entropy</i> , 2019, 21, 480.	1.1	57
80	Bending-torsional-coupled vibrations and buckling characteristics of single and double composite Timoshenko beams. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401983445.	0.8	10
81	Performance of a hybrid photovoltaic/thermal system utilizing water-Al ₂ O ₃ nanofluid and fins. <i>International Journal of Energy Research</i> , 2019, 43, 219-230.	2.2	44
82	Investigation of the trends of electricity demands in Jordan and its susceptibility to the ambient air temperature towards sustainable electricity generation. <i>Energy, Sustainability and Society</i> , 2019, 9, .	1.7	30
83	Rarefaction and scale effects on heat transfer characteristics for enclosed rectangular cavities heated from below. <i>Thermal Science</i> , 2019, 23, 1791-1800.	0.5	5
84	A Brief Survey of Preparation and Heat Transfer Enhancement of Hybrid Nanofluids. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2019, , 441-453.	0.6	31
85	Two-dimensional analysis of low-pressure flows in an inclined square cavity with two fins attached to the hot wall. <i>International Journal of Thermal Sciences</i> , 2018, 126, 181-193.	2.6	30
86	Numerical study of heat transfer enhancement in the entrance region for low-pressure gaseous laminar pipe flows using Al ₂ O ₃ -air nanofluid. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401878441.	0.8	14
87	Measurement and modelling of the ground temperature profile in Zarqa, Jordan for geothermal heat pump applications. <i>Applied Thermal Engineering</i> , 2017, 123, 131-137.	3.0	27
88	Conjugate heat transfer in rarefied gas in enclosed cavities. <i>Vacuum</i> , 2016, 130, 137-145.	1.6	22
89	Two dimensional analysis of low pressure flows in the annulus region between two concentric cylinders. <i>SpringerPlus</i> , 2016, 5, 529.	1.2	20
90	Vibration analysis of non-uniform orthotropic Kirchhoff plates resting on elastic foundation based on nonlocal elasticity theory. <i>International Journal of Mechanical Sciences</i> , 2016, 114, 1-11.	3.6	30

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91	Rarefied flow and heat transfer characteristics over a vertical stretched surface. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401666621.	0.8	3
92	Comparative study of a conventional solar still with different basin materials using exergy analysis. , 0, 224, 55-64.		16
93	Numerical investigation of natural convection on Al ₂ O ₃ water porous enclosure partially heated with two fins attached to its hot wall: under the MHD effects. <i>Applied Nanoscience (Switzerland)</i> , 0, , 1.	1.6	24
94	Nanofluid flow past a vertical plate with nanoparticle aggregation kinematics, thermal slip and significant buoyancy force effects using modified Buongiorno model. <i>Waves in Random and Complex Media</i> , 0, , 1-25.	1.6	22