

# Lioua Kolsi

## List of Publications by Year in descending order

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197  
papers

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citations

101496

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202  
docs citations

202  
times ranked

2215  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. Physics Reports, 2019, 790, 1-48.	10.3	670
2	Recent advances in modeling and simulation of nanofluid flowsâ€”Part II: Applications. Physics Reports, 2019, 791, 1-59.	10.3	389
3	Nanofluid flow and heat transfer in porous media: A review of the latest developments. International Journal of Heat and Mass Transfer, 2017, 107, 778-791.	2.5	377
4	Mixed convection and entropy generation in a nanofluid filled cubical open cavity with a central isothermal block. International Journal of Mechanical Sciences, 2018, 135, 362-375.	3.6	109
5	Three-dimensional investigation of the effects of external magnetic field inclination on laminar natural convection heat transfer in CNTâ€”water nanofluid filled cavity. Journal of Molecular Liquids, 2018, 252, 454-468.	2.3	98
6	A Review of Nano Fluid Role to Improve the Performance of the Heat Pipe Solar Collectors. Energy Procedia, 2017, 109, 417-424.	1.8	86
7	3D magneto-convective heat transfer in CNT-nanofluid filled cavity under partially active magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 294-303.	1.3	85
8	Control of natural convection via inclined plate of CNT-water nanofluid in an open sided cubical enclosure under magnetic field. International Journal of Heat and Mass Transfer, 2017, 111, 1007-1018.	2.5	84
9	Numerical study of an Evacuated Tube Solar Collector incorporating a Nano-PCM as a latent heat storage system. Case Studies in Thermal Engineering, 2021, 24, 100859.	2.8	83
10	Heat transfer inside a horizontal channel with an open trapezoidal enclosure subjected to a heat source of different lengths. Heat Transfer - Asian Research, 2020, 49, 406-423.	2.8	73
11	Free convection heat transfer and entropy generation analysis of MWCNT-MgO (15% âˆ” 85%)/Water nanofluid using Lattice Boltzmann method in cavity with refrigerant solid body-Experimental thermo-physical properties. Powder Technology, 2017, 322, 9-23.	2.1	63
12	Viscous dissipation and radiation effects on MHD natural convection in a square enclosure filled with a porous medium. Nuclear Engineering and Design, 2014, 266, 34-42.	0.8	62
13	Second law analysis of natural convection in a CNT-water nanofluid filled inclined 3D cavity with incorporated Ahmed body. International Journal of Mechanical Sciences, 2017, 130, 399-415.	3.6	62
14	MHD mixed convection in an inclined cavity containing adiabatic obstacle and filled with Cuâ€”water nanofluid in the presence of the heat generation and partial slip. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1443-1460.	2.0	62
15	Numerical simulation of three-dimensional double diffusive free convection flow and irreversibility studies in a solar distiller. International Communications in Heat and Mass Transfer, 2012, 39, 869-876.	2.9	61
16	Experimental and numerical study on heat transfer performance of three-dimensional natural convection in an enclosure filled with DWCNTs-water nanofluid. Powder Technology, 2017, 322, 340-352.	2.1	59
17	Numerical Study of Natural Convection Between Two Coaxial Inclined Cylinders. International Journal of Heat and Technology, 2019, 37, 779-786.	0.3	58
18	Computational analysis of hybrid nanofluid enhanced heat transfer in cross flow micro heat exchanger with rectangular wavy channels. Case Studies in Thermal Engineering, 2021, 24, 100822.	2.8	57

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19	Heat transfer and fluid flow in a PCM-filled enclosure: Effect of inclination angle and mid-separation fin. <i>International Communications in Heat and Mass Transfer</i> , 2021, 124, 105280.	2.9	56
20	Computational Analysis of Three-Dimensional Unsteady Natural Convection and Entropy Generation in a Cubical Enclosure Filled with Water-Al <sub>2</sub> O <sub>3</sub> Nanofluid. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 7483-7493.	1.1	55
21	Three-dimensional unsteady natural convection and entropy generation in an inclined cubical trapezoidal cavity with an isothermal bottom wall. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 741-755.	3.4	52
22	Numerical investigation of combined buoyancy-thermocapillary convection and entropy generation in 3D cavity filled with Al <sub>2</sub> O <sub>3</sub> nanofluid. <i>AEJ - Alexandria Engineering Journal</i> , 2017, 56, 71-79.	3.4	51
23	Lattice Boltzmann method based on Dual-MRT model for three-dimensional natural convection and entropy generation in CuO-water nanofluid filled cuboid enclosure included with discrete active walls. <i>Computers and Mathematics With Applications</i> , 2018, 75, 1795-1813.	1.4	50
24	A computational work on a three dimensional analysis of natural convection and entropy generation in nanofluid filled enclosures with triangular solid insert at the corners. <i>Journal of Molecular Liquids</i> , 2016, 218, 260-274.	2.3	49
25	Numerical study of three-dimensional natural convection and entropy generation in a cubical cavity with partially active vertical walls. <i>Case Studies in Thermal Engineering</i> , 2017, 10, 100-110.	2.8	49
26	Three-dimensional analysis on natural convection inside a T-shaped cavity with water-based CNT-aluminum oxide hybrid nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2089-2098.	2.0	49
27	MHD Mixed Bioconvection in a Square Porous Cavity Filled by Gyrotactic Microorganisms. <i>International Journal of Heat and Technology</i> , 2019, 37, 433-445.	0.3	49
28	Inclination effects of magnetic field direction in 3D double-diffusive natural convection. <i>Applied Mathematics and Computation</i> , 2016, 273, 178-189.	1.4	48
29	Lattice Boltzmann numerical method for natural convection and entropy generation in cavity with refrigerant rigid body filled with DWCNTs-water nanofluid-experimental thermo-physical properties. <i>Thermal Science and Engineering Progress</i> , 2018, 5, 372-387.	1.3	47
30	Modeling of MHD natural convection in a square enclosure having an adiabatic square shaped body using Lattice Boltzmann Method. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 203-214.	3.4	46
31	Natural convection analysis by entropy generation and heatline visualization using lattice Boltzmann method in nanofluid filled cavity included with internal heaters- Empirical thermo-physical properties. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 199-216.	3.6	45
32	3D Buoyancy-Induced Flow and Entropy Generation of Nanofluid-Filled Open Cavities Having Adiabatic Diamond Shaped Obstacles. <i>Entropy</i> , 2016, 18, 232.	1.1	43
33	Effects of Movable-Baffle on Heat Transfer and Entropy Generation in a Cavity Saturated by CNT Suspensions: Three-Dimensional Modeling. <i>Entropy</i> , 2017, 19, 200.	1.1	43
34	Entropy generation analysis and heatline visualization of free convection in nanofluid (KKL) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td and Mathematics With Applications, 2018, 75, 1814-1830.	1.4	42
35	Deep Neural Networks for Predicting Solar Radiation at Hail Region, Saudi Arabia. <i>IEEE Access</i> , 2021, 9, 36719-36729.	2.6	42
36	Natural convection and entropy generation in a cubical cavity with twin adiabatic blocks filled by aluminum oxide-water nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 242-259.	1.2	40

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37	Evaluating energy efficiency and economic effect of heat transfer in copper tube for small solar linear Fresnel reflector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 4197-4215.	2.0	37
38	Effects of magnetic field on 3D double diffusive convection in a cubic cavity filled with a binary mixture. <i>International Communications in Heat and Mass Transfer</i> , 2013, 49, 86-95.	2.9	36
39	Effect of an External Magnetic Field on the 3-D Unsteady Natural Convection in a Cubical Enclosure. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007, 51, 1003-1021.	1.2	33
40	Mixed convection in a trapezoidal enclosure filled with two layers of nanofluid and porous media with a rotating circular cylinder and a sinusoidal bottom wall. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 2061-2079.	2.0	33
41	Experimental investigations on thermophysical properties of nano-enhanced phase change materials for thermal energy storage applications. <i>AJ - Alexandria Engineering Journal</i> , 2022, 61, 7037-7044.	3.4	32
42	Second law analysis in a three dimensional lid-driven cavity. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1376-1383.	2.9	31
43	Numerical analysis of entropy generation due to natural convection in three-dimensional partially open enclosures. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 75, 131-140.	2.7	31
44	Enhancing the performance of a greenhouse drying system by using triple-flow solar air collector with nano-enhanced absorber coating. <i>Case Studies in Thermal Engineering</i> , 2022, 34, 102011.	2.8	31
45	Double-diffusive natural convection in a solar distiller with external fluid stream cooling. <i>International Journal of Mechanical Sciences</i> , 2020, 181, 105728.	3.6	29
46	Impacts of double rotating cylinders on the forced convection of hybrid nanofluid in a bifurcating channel with partly porous layers. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101020.	2.8	28
47	Thermal enhancement of ethylene glycol base material with hybrid nanofluid for oblique stagnation point slip flow. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101468.	2.8	28
48	Hydromagnetic Double-Diffusive Laminar Natural Convection in a Radiatively Participating Fluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2005, 48, 483-506.	1.2	27
49	Effect of Radiative Heat Transfer on Three-Dimensional Double Diffusive Natural Convection. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011, 60, 785-809.	1.2	27
50	Analysis of the electro-thermo-convection induced by a strong unipolar injection between two concentric or eccentric cylinders. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 789-804.	1.2	27
51	CFD study of heat and mass transfer and entropy generation in a 3D solar distiller heated by an internal column. <i>International Journal of Mechanical Sciences</i> , 2019, 152, 280-288.	3.6	27
52	Mixed Convection in a Cubical Cavity With Active Lateral Walls and Filled With Hybrid Graphene-Platinum Nanofluid. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	0.8	26
53	Performance investigation of a vertically configured LHTES via the combination of nano-enhanced PCM and fins: experimental and numerical approaches. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106246.	2.9	26
54	MHD mixed convection of $\text{Al}_2\text{O}_3$ -Cu-water hybrid nanofluid in a wavy channel with incorporated fixed cylinder. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 2219-2233.	2.0	25

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55	The effect of an external magnetic field on the entropy generation in three-dimensional natural convection. <i>Thermal Science</i> , 2010, 14, 341-352.	0.5	25
56	CNT-water nanofluid magneto-convective heat transfer in a cubical cavity equipped with perforated partition. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	24
57	Mixed Convection inside a Duct with an Open Trapezoidal Cavity Equipped with Two Discrete Heat Sources and Moving Walls. <i>Mathematics</i> , 2022, 10, 929.	1.1	24
58	Lattice Boltzmann simulation of free convection in nanofluid filled cavity with partially active walls - entropy generation and heatline visualization. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 2254-2283.	1.6	23
59	Numerical Study of Periodic Magnetic Field Effect on 3D Natural Convection of MWCNT-Water/Nanofluid with Consideration of Aggregation. <i>Processes</i> , 2019, 7, 957.	1.3	23
60	Gas distributor and bed material effects in a cold flow model of a novel multi-stage biomass gasifier. <i>Biomass and Bioenergy</i> , 2019, 126, 14-25.	2.9	22
61	Numerical investigation of heat transfer and melting process in a PCM capsule: Effects of inner tube position and Stefan number. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101306.	2.8	22
62	Effects of magnetic field, binary particle loading and rotational conic surface on phase change process in a PCM filled cylinder. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101456.	2.8	22
63	Effect of Driven Sidewalls on Mixed Convection in an Open Trapezoidal Cavity With a Channel. <i>Journal of Heat Transfer</i> , 2020, 142, .	1.2	22
64	A multi-stage SEIR model to predict the potential of a new COVID-19 wave in KSA after lifting all travel restrictions. <i>AEJ - Alexandria Engineering Journal</i> , 2021, 60, 3965-3974.	3.4	21
65	APPLICATIONS OF NANOTECHNOLOGY TO ENHANCE THE PERFORMANCE OF THE DIRECT ABSORPTION SOLAR COLLECTORS. <i>Journal of Thermal Engineering</i> , 2016, 2, .	0.8	21
66	A new microchannel heat exchanger configuration using CNT-nanofluid and allowing uniform temperature on the active wall. <i>Case Studies in Thermal Engineering</i> , 2022, 32, 101866.	2.8	21
67	Transient electrohydrodynamic convective flow and heat transfer of MWCNT - Dielectric nanofluid in a heated enclosure. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126736.	0.9	20
68	Comparative Study of Chemical Coagulation and Electrocoagulation for the Treatment of Real Textile Wastewater: Optimization and Operating Cost Estimation. <i>ACS Omega</i> , 2022, 7, 22456-22476.	1.6	20
69	Three-dimensional analysis of natural convection in nanofluid-filled parallelogrammic enclosure opened from top and heated with square heater. <i>Journal of Central South University</i> , 2019, 26, 1077-1088.	1.2	19
70	Effect of Different Quaternary Ammonium Groups on the Hydroxide Conductivity and Stability of Anion Exchange Membranes. <i>ACS Omega</i> , 2021, 6, 7994-8001.	1.6	19
71	Effect of Heat and Mass Transfer Through Diffusive Walls on Three-Dimensional Double-Diffusive Natural Convection. <i>Numerical Heat Transfer; Part A: Applications</i> , 2008, 53, 1357-1376.	1.2	18
72	Numerical Simulation of the Impact of the Heat Source Position on Melting of a Nano-Enhanced Phase Change Material. <i>Nanomaterials</i> , 2021, 11, 1425.	1.9	18

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73	Three-dimensional modelling of natural convection and entropy generation in a vertical cylinder under heterogeneous heat flux using nanofluids. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 30, 119-142.	1.6	17
74	Impacts of rotating surface and area expansion during nanofluid convection on phase change dynamics for PCM packed bed installed cylinder. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 4159-4173.	3.4	17
75	Finite element simulation of antigen-antibody transport and adsorption in a microfluidic chip. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 104, 177-186.	1.3	16
76	Heat transfer intensification induced by electrically generated convection between two elliptical cylinders. <i>International Journal of Thermal Sciences</i> , 2019, 135, 523-532.	2.6	16
77	3D Magneto-Buoyancy-Thermocapillary Convection of CNT-Water Nanofluid in the Presence of a Magnetic Field. <i>Processes</i> , 2020, 8, 258.	1.3	16
78	Three-dimensional computational fluid dynamics analysis of buoyancy-driven natural ventilation and entropy generation in a prismatic greenhouse. <i>Thermal Science</i> , 2018, 22, 73-85.	0.5	16
79	Numerical study of three-dimensional combined buoyancy and thermocapillary convection and evaluation of entropy generation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 24, 148-168.	1.6	15
80	Three dimensional analysis of natural convection and entropy generation in a sharp edged finned cavity. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 991-1004.	3.4	15
81	Numerical simulation of three-dimensional double diffusive convection in a lid-driven cavity. <i>International Journal of Thermal Sciences</i> , 2016, 110, 241-250.	2.6	15
82	Electro-thermo-capillary-convection in a square layer of dielectric liquid subjected to a strong unipolar injection. <i>Applied Mathematical Modelling</i> , 2018, 63, 349-361.	2.2	15
83	Thermal stability and performances of hybrid nanoparticles for convective heat transfer phenomenon with multiple solutions. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101684.	2.8	15
84	Numerical study of the Rayleigh-Bénard convection in two-dimensional cavities heated by elliptical heat sources using the lattice Boltzmann method. <i>Physics of Fluids</i> , 2021, 33, .	1.6	15
85	Numerical Study of MHD Natural Convection inside a Cubical Cavity Loaded with Copper-Water Nanofluid by Using a Non-Homogeneous Dynamic Mathematical Model. <i>Mathematics</i> , 2022, 10, 2072.	1.1	15
86	Natural Convection and Irreversibility Evaluation in a Cubic Cavity with Partial Opening in Both Top and Bottom Sides. <i>Entropy</i> , 2019, 21, 116.	1.1	14
87	Study of the usability of sinusoidal function heat flux based on enthalpy-porosity technique for PCM-related applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1769-1784.	2.0	14
88	Numerical investigation of heat transfer enhancement of an inclined heated offset jet. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104682.	2.9	14
89	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
90	Pulsating nanofluid flow in a wavy bifurcating channel under partially active uniform magnetic field effects. <i>International Communications in Heat and Mass Transfer</i> , 2022, 133, 105938.	2.9	14

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91	Natural convection and entropy generation in a three dimensional volumetrically heated and partially divided cavity. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016, 26, 2492-2508.	1.6	13
92	Lattice Boltzmann simulation of free convection's hydrothermal aspects in a finned/multi-pipe cavity filled with CuO-water nanofluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 1058-1078.	1.6	13
93	Modeling and optimization of a proton exchange membrane fuel cell using particle swarm algorithm with constriction coefficient. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 1749-1759.	2.0	13
94	Three-dimensional natural convection of CNT-water nanofluid confined in an inclined enclosure with Ahmed body. <i>Journal of Thermal Science and Technology</i> , 2017, 12, JTST0002-JTST0002.	0.6	13
95	CFD Analysis of Wind Distribution around Buildings in Low-Density Urban Community. <i>Mathematics</i> , 2022, 10, 1118.	1.1	12
96	Control of Magnetohydrodynamic Mixed Convection and Entropy Generation in a Porous Cavity by Using Double Rotating Cylinders and Curved Partition. <i>ACS Omega</i> , 2021, 6, 35607-35618.	1.6	12
97	Thermal stability of hybrid nanofluid with viscous dissipation and suction/injection applications: Dual branch framework. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100506.	1.3	12
98	Experimental study of a solar water heater fitted with spacer at the leading edge of Left-Right screw tapes. <i>Case Studies in Thermal Engineering</i> , 2020, 22, 100777.	2.8	11
99	Forecasting of One-Day-Ahead Global Horizontal Irradiation Using Block-Oriented Models Combined with a Swarm Intelligence Approach. <i>Natural Resources Research</i> , 2021, 30, 1-26.	2.2	11
100	Computational study of natural convection and entropy generation in 3-D cavity with active lateral walls. <i>Thermal Science</i> , 2020, 24, 2089-2100.	0.5	11
101	Numerical simulation of 3D natural convection and entropy generation in a cubic cavity equipped with an adiabatic baffle. <i>International Journal of Heat and Technology</i> , 2018, 36, 1047-1054.	0.3	10
102	Transport pattern of Non-Newtonian mass and thermal energy under two diverse flow conditions by using modified models for thermodynamics properties. <i>Case Studies in Thermal Engineering</i> , 2022, 29, 101714.	2.8	10
103	Entropy generation of nanofluid flow in hexagonal microchannel. <i>Journal of Taibah University for Science</i> , 2022, 16, 75-88.	1.1	10
104	Three-Dimensional Study of Magnetohydrodynamic Natural Convection, Entropy Generation, and Electromagnetic Variables in a Nanofluid Filled Enclosure Equipped with Inclined Fins. <i>ACS Omega</i> , 2022, 7, 12365-12373.	1.6	10
105	Numerical investigation of electro-thermo-convection in a square enclosure with incorporated hot solid body. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2647-2661.	2.0	9
106	Analysis of Double-diffusive natural convection in a solar distiller embedded with PCM and cooled with external water stream. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 126, 67-79.	2.7	9
107	Numerical Study of Natural Convection and Entropy Generation of Al <sub>2</sub> O <sub>3</sub> -Water Nanofluid within a Cavity Equipped with a Conductive Baffle. <i>Journal of Applied Fluid Mechanics</i> , 2016, 9, 2177-2186.	0.4	9
108	Jet Impingement Cooling of a Rotating Hot Circular Cylinder with Hybrid Nanofluid under Multiple Magnetic Field Effects. <i>Mathematics</i> , 2021, 9, 2697.	1.1	9

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109	Pressure-Driven Gas Flows in Micro Channels with a Slip Boundary: A Numerical Investigation. Fluid Dynamics and Materials Processing, 2020, 16, 147-159.	0.5	9
110	Biomimetic propulsion of viscoelastic nanoparticles in a curved pump with curvature and slip effects: blood control bio-medical applications. Waves in Random and Complex Media, 0, , 1-18.	1.6	9
111	Application of nanofluids as cutting fluids in machining operations: a brief review. Applied Nanoscience (Switzerland), 2023, 13, 4247-4278.	1.6	9
112	Double Diffusive Natural Convection in a Square Cavity Filled with a Porous Media and a Power Law Fluid Separated by a Wavy Interface. Mathematics, 2022, 10, 1060.	1.1	9
113	A study on effectiveness of the variational theory in fluid dynamics applications. AEJ - Alexandria Engineering Journal, 2022, 61, 10779-10789.	3.4	9
114	Prabhakar fractional model for viscous transient fluid with heat and mass transfer and Newtonian heating applications. Waves in Random and Complex Media, 2023, 33, 808-824.	1.6	9
115	Numerical Study of 3D MHD Mixed Convection and Entropy Generation in Trapezoidal Porous Enclosure Filled with a Hybrid Nanofluid: Effect of Zigzag Wall and Spinning Inner Cylinder. Nanomaterials, 2022, 12, 1974.	1.9	9
116	Three-dimensional combined radiation-magnetoconvection of low electrically conductive dielectric oxide melt. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3611-3637.	1.6	8
117	CONTROL OF HEAT TRANSFER AND FLUID FLOW VIA A MOVING FIN IN A TRIANGULAR ENCLOSURE FILLED WITH NANOFUID. Heat Transfer Research, 2019, 50, 159-181.	0.9	8
118	3-D Numerical Study of Hydromagnetic Double Diffusive Natural Convection and Entropy Generation in Cubic Cavity. Journal of Applied Fluid Mechanics, 2016, 9, 1915-1925.	0.4	8
119	Combined radiation-natural convection in three-dimensional verticals cavities. Thermal Science, 2011, 15, 383-390.	0.5	8
120	Advancement of nanofluids in automotive applications during the last few years—a comprehensive review. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7603-7630.	2.0	8
121	Forced Convection of Non-Newtonian Nanofluid Flow over a Backward Facing Step with Simultaneous Effects of Using Double Rotating Cylinders and Inclined Magnetic Field. Mathematics, 2021, 9, 3002.	1.1	8
122	Performance Optimization of a Thermoelectric Device by Using a Shear Thinning Nanofluid and Rotating Cylinder in a Cavity with Ventilation Ports. Mathematics, 2022, 10, 1075.	1.1	8
123	Experimental study of thermal energy battery working with nano-enhanced phase change material. Case Studies in Thermal Engineering, 2022, 34, 102051.	2.8	8
124	Study of three-dimensional natural convection and entropy generation in an inclined solar collector equipped with partitions. Heat Transfer - Asian Research, 2017, 46, 1312-1326.	2.8	7
125	Electro-thermo-convection in dielectric liquid subjected to partial unipolar injection between two eccentric cylinders. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 78-93.	1.6	7
126	3D Rayleigh-Bénard-type natural convection in MWCNT-nanofluid-filled L-shaped enclosures with consideration of aggregation effect. Mathematical Methods in the Applied Sciences, 2020, , .	1.2	7



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127	New model for PCM melting and solidification processes simulation. <i>Physica Scripta</i> , 2021, 96, 125214.	1.2	7
128	Performance analysis of thermoelectric generator mounted chaotic channel by using non-Newtonian nanofluid and modeling with efficient computational methods. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 3527-3549.	3.4	7
129	Experimental Study of the Effect of Al <sub>2</sub> O <sub>3</sub> Nanoparticles on the Profitability of a Single-Slope Solar Still: Application in Southeast of Algeria. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 119-133.	0.3	7
130	CFD investigation of effect of nanofluid filled Trombe wall on 3D convective heat transfer. <i>Journal of Central South University</i> , 2021, 28, 3569-3579.	1.2	7
131	CFD modeling of gas-particles flow in a circulating fluidized G-Volution gasification reactor. <i>International Journal of Mechanical Sciences</i> , 2018, 144, 438-451.	3.6	6
132	Offset jet ejection angle effect in combined wall and offset jets flow: numerical investigation and engineering correlations. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	6
133	Solubility, Solution Thermodynamics, and Preferential Solvation of Amygdalin in Ethanol + Water Solvent Mixtures. <i>Pharmaceuticals</i> , 2020, 13, 395.	1.7	6
134	Extraction of lyophilized olive mill wastewater using supercritical CO <sub>2</sub> processes. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 237-246.	3.4	6
135	Natural convection and entropy production in a cubic cavity heated via pin-fins heat sinks. <i>International Journal of Heat and Technology</i> , 2017, 35, 109-115.	0.3	6
136	Numerical study of heat and mass transfer optimization in a 3D inclined solar distiller. <i>Thermal Science</i> , 2017, 21, 2469-2480.	0.5	6
137	Blood Flow in Multi-Sinusoidal Curved Passages with Biomimetic Rheology: An Application of Blood Pumping. <i>Mathematics</i> , 2022, 10, 1579.	1.1	6
138	Experimental comparison of performance and emission characteristics of 4-stroke CI engine operated with Roselle and Jatropha biodiesel blends. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100505.	1.3	6
139	Conjugate Natural Convection of a Hybrid Nanofluid in a Cavity Filled with Porous and Non-Newtonian Layers: The Impact of the Power Law Index. <i>Mathematics</i> , 2022, 10, 2044.	1.1	6
140	MHD natural convection inside an inclined trapezoidal porous enclosure with internal heat generation or absorption subjected to isoflux heating. <i>Heat Transfer - Asian Research</i> , 2012, 41, 498-515.	2.8	5
141	Effects of moving lid direction on mixed convection and entropy generation in a cubical cavity with longitudinal triangular fin insertion. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017, 27, 839-860.	1.6	5
142	Design of Fuzzy TS-PDC Controller for Electrical Power System via Rules Reduction Approach. <i>Symmetry</i> , 2020, 12, 2068.	1.1	5
143	Numerical simulation of a microfluidic biosensor for C-reactive protein detection into a microchannel with considering electrothermal effect. <i>AEJ - Alexandria Engineering Journal</i> , 2020, 59, 1649-1659.	3.4	5
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