Ali Chamkha

List of Publications by Year in Descending Order

884 papers	27,617 citations	86 h-index	113 g-index
929 ext. papers	34,258 ext. citations	3.1 avg, IF	8.5 L-index

#	Paper	IF	Citations
884	Micropolar nanofluid thermal free convection and entropy generation through an inclined I-shaped enclosure with two hot cylinders. *Case Studies in Thermal Engineering*, **2022**, 31, 101813	5.6	3
883	Statistical analysis on prediction of biodiesel properties from its fatty acid composition. *Case Studies in Thermal Engineering*, **2022**, 30, 101775	5.6	2
882	MHD effects on natural convection in a U-shaped enclosure filled with nanofluid-saturated porous media with two baffles. *Progress in Nuclear Energy*, **2022**, 145, 104136	2.3	3
881	On the magnetohydrodynamic Al2O3-water nanofluid flow through parallel fins enclosed inside a partially heated hexagonal cavity. *International Communications in Heat and Mass Transfer*, **2022**, 132, 105885	5.8	15
880	Semi-analytical method for propagation of harmonic waves in nonlinear magneto-thermo-elasticity. *Computers and Mathematics With Applications*, **2022**, 105, 107-111	2.7	1
879	Local thermal non-equilibrium (LTNE) effects on thermal-free convection in a nanofluid-saturated horizontal elliptical non-Darcian porous annulus. *Mathematics and Computers in Simulation*, **2022**, 194, 124-140	3.3	5
878	A narrative loom of hybrid nanofluid-filled wavy walled tilted porous enclosure imposing a partially active magnetic field. *International Journal of Mechanical Sciences*, **2022**, 217, 107028	5.5	5
877	Impact of hybrid nanofluids on unsteady MHD flow and heat transfer due to a moving infinite vertical plate. *Heat Transfer*, **2022**, 51, 1358	3.1	2
876	Energy transport of wavy non-homogeneous hybrid nanofluid cavity partially filled with porous LTNE layer. *Journal of Petroleum Science and Engineering*, **2022**, 208, 109655	4.4	3
875	A Bi-Convective Magnetized Hybrid Nanofluid Flow Along with Thermal Radiation in an Adverse Pressure Field Using Temperature-Sensitive Base Fluid (Water) Properties. *Journal of Nanofluids*, **2022**, 11, 142-153	2.2	1
874	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.. *Micromachines*, **2022**, 13,	3.3	9
873	Three-Dimensional Study of Magnetohydrodynamic Natural Convection, Entropy Generation, and Electromagnetic Variables in a Nanofluid Filled Enclosure Equipped with Inclined Fins.. *ACS Omega*, **2022**, 7, 12365-12373	3.9	1
872	Thermo-fluidic transport process in a novel M-shaped cavity packed with non-Darcian porous medium and hybrid nanofluid: Application of artificial neural network (ANN). *Physics of Fluids*, **2022**, 34, 033608	4.4	5
871	Effects of Viscous Dissipation and Thermal Radiation on an Electrically Conducting Casson-Carreau Nanofluids Flow with Cattaneo-Christov Heat Flux Model. *Journal of Nanofluids*, **2022**, 11, 214-226	2.2	0
870	Hybrid lattice Boltzmann 3D simulation of combined heat transfer by conduction, convection and radiation. *Case Studies in Thermal Engineering*, **2022**, 32, 101902	5.6	1
869	Magneto-Hydrodynamics Natural Convection and Entropy Production in a Hollow Cavity Filled with a Nanofluid. *Journal of Nanofluids*, **2022**, 11, 276-284	2.2	2
868	Effects of Wu□ Slip and Non-Uniform Source/Sink on Entropy Optimized Radiative Magnetohydrodynamic Up/Down Flow of Nanofluids. *Journal of Nanofluids*, **2022**, 11, 305-317	2.2	0

867	Analytical Study on Magnetohydrodynamic Nanofluid Flow Influenced by Electrical Conductivity in a Baffled Vertical Channel. *Journal of Nanofluids*, **2022**, 11, 425-433	2.2	0
866	Efficacy of diverse structures of wavy baffles on heat transfer amplification of double-diffusive natural convection inside a C-shaped enclosure filled with hybrid nanofluid. *Sustainable Energy Technologies and Assessments*, **2022**, 52, 102180	4.7	3
865	Toward the thermohydrodynamic behavior of a nanofluid containing C-MWCNTs flowing through a 3D annulus channel under constant imposed heat flux. *Heat Transfer*, **2022**, 51, 2524-2545	3.1	0
864	MHD Flow Analysis of a Williamson Nanofluid due to Thomson and Troian Slip Condition. *International Journal of Applied and Computational Mathematics*, **2022**, 8, 1	1.3	5
863	Natural convection of alumina-water nanofluid in a partially heated square cavity with isothermal blockage inside with uniform magnetic field and heat generation/absorption. *European Physical Journal Plus*, **2022**, 137, 1	3.1	1
862	Hydrothermal behavior of micro-polar Nano-Encapsulated phase change materials (NEPCMs) in an inclined L-shaped cavity. *Case Studies in Thermal Engineering*, **2022**, 102039	5.6	0
861	Nanofluid mixed convection inside wavy cavity with heat source: A non-homogeneous study. *Case Studies in Thermal Engineering*, **2022**, 34, 102049	5.6	0
860	Thermal management and natural convection flow of nano encapsulated phase change material (NEPCM)-water suspension in a reverse T-shaped porous cavity enshrining two hot corrugated baffles: A boost to renewable energy storage. *Journal of Building Engineering*, **2022**, 53, 104550	5.2	5
859	Analysis of the effects of local thermal non-equilibrium (LTNE) on thermo-natural convection in an elliptical annular space separated by a nanofluid-saturated porous sleeve. *International Communications in Heat and Mass Transfer*, **2021**, 129, 105725	5.8	4
858	Numerical Investigation of Non-Fourier Flux Theory with Chemical Action on Maxwell Radiating Nanoliquid: A Biomedical Application. *Lecture Notes in Mechanical Engineering*, **2021**, 793-810	0.4	
857	A Numerical Approach to the Modeling of Thomson and Troian Slip on Nonlinear Radiative Microrotation of Casson Carreau Nanomaterials in Magnetohydrodynamics. *Journal of Nanofluids*, **2021**, 10, 305-315	2.2	6
856	Three-Dimensional Rotating Flow of an Oldroyd-B Nanofluid with Relaxation-Retardation Viscous Dissipation. *Journal of Nanofluids*, **2021**, 10, 408-419	2.2	1
855	Numerical and statistical exploration on the dynamics of water conveying Cu-Al2O3 hybrid nanofluid flow over an exponentially stretchable sheet with Navier's partial slip and thermal jump conditions. *Chinese Journal of Physics*, **2021**, 75, 120-120	3.5	4
854	Review of Nanofluids and Their Biomedical Applications. *Journal of Nanofluids*, **2021**, 10, 463-477	2.2	3
853	Thermal Analysis of the Solar Collector Cum Storage System Using a Hybrid-Nanofluids. *Journal of Nanofluids*, **2021**, 10, 616-626	2.2	10
852	Numerical and Statistical Analysis of Dissipative and Heat Absorbing Graphene Maxwell Nanofluid Flow Over a Stretching Sheet. *Journal of Nanofluids*, **2021**, 10, 600-607	2.2	0
851	Thermal boundary condition analysis of cooling objects exposed to a free impinging jet using the heatline concept. *Engineering Applications of Computational Fluid Mechanics*, **2021**, 15, 1919-1931	4.5	0
850	Boundary layer flow of non-Newtonian Eyring–Powell nanofluid over a moving flat plate in Darcy porous medium with a parallel free-stream: Multiple solutions and stability analysis **2021**, 95, 1		8

849	Divergent channel flow of Casson fluid and heat transfer with suction/blowing and viscous dissipation: Existence of boundary layer. *Partial Differential Equations in Applied Mathematics*, **2021**, 4, 100172	0.8	2
848	The optimum double diffusive natural convection heat transfer in H-Shaped cavity with a baffle inside and a corrugated wall. *Case Studies in Thermal Engineering*, **2021**, 28, 101541	5.6	31
847	Thermal entropy and exergy efficiency analyses of nanodiamond/water nanofluid flow in a plate heat exchanger. *Diamond and Related Materials*, **2021**, 120, 108648	3.5	4
846	Significance of Magnetic Field on Carreau Dissipative Flow Over a Curved Porous Surface with Activation Energy. *Journal of Nanofluids*, **2021**, 10, 75-82	2.2	1
845	Thermal Slip Flow of a Three-Dimensional Casson Fluid Embedded in a Porous Medium with Internal Heat Generation. *Journal of Nanofluids*, **2021**, 10, 58-66	2.2	5
844	Features of 3D magneto-convective nonlinear radiative Williamson nanofluid flow with activation energy, multiple slips and Hall effect. *Physica Scripta*, **2021**, 96, 065206	2.6	19
843	Effect of Design Parameters on Fresh Water Produced from Triangular Basin and Conventional Basin Solar Still. *International Journal of Photoenergy*, **2021**, 2021, 1-8	2.1	5
842	Effect of fins and silicon dioxide nanoparticle black paint on the absorber plate for augmenting yield from tubular solar still. *Environmental Science and Pollution Research*, **2021**, 28, 35102-35112	5.1	25
841	A review of flow and heat transfer in cavities and their applications. *European Physical Journal Plus*, **2021**, 136, 1	3.1	14
840	Recovery of Pure Silicon and Other Materials from Disposed Solar Cells. *International Journal of Photoenergy*, **2021**, 2021, 1-4	2.1	3
839	Recent advancements, technologies, and developments in inclined solar still-a comprehensive review. *Environmental Science and Pollution Research*, **2021**, 28, 35346-35375	5.1	11
838	Jet Impingement Heat Transfer of Confined Single and Double Jets with Non-Newtonian Power Law Nanofluid under the Inclined Magnetic Field Effects for a Partly Curved Heated Wall. *Sustainability*, **2021**, 13, 5086	3.6	2
837	Study of paraffin-based composite-phase change materials for a shell and tube energy storage system: A mesh adaptation approach. *Applied Thermal Engineering*, **2021**, 190, 116793	5.8	4
836	Impacts of Amplitude and Local Thermal Non-Equilibrium Design on Natural Convection within NanoflUid Superposed Wavy Porous Layers. *Nanomaterials*, **2021**, 11,	5.4	3
835	Significance of Stefan Blowing and Convective Heat Transfer in Nanofluid Flow Over a Curved Stretching Sheet with Chemical Reaction. *Journal of Nanofluids*, **2021**, 10, 285-291	2.2	3
834	A Review on the Use of Hybrid Nanofluid in a Solar Flat Plate and Parabolic Trough Collectors and Its Enhanced Collector Thermal Efficiency. *Journal of Nanofluids*, **2021**, 10, 147-171	2.2	2
833	Hall Effects on Unsteady Magnetohydrodynamic Flow of a Nanofluid Past an Oscillatory Vertical Rotating Flat Plate Embedded in Porous Media. *Journal of Nanofluids*, **2021**, 10, 259-269	2.2	0
832	Combined effects of thermal radiation and thermophoretic motion on mixed convection boundary layer flow. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 3243-3252	6.1	16

831	MHD mixed convection of localized heat source/sink in an Al2O3-Cu/water hybrid nanofluid in L-shaped cavity. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 2947-2962	6.1	32
830	Free convection and second law scrutiny of NEPCM suspension inside a wavy-baffle-equipped cylinder under altered Fourier theory. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 128, 288-288	5.3	18
829	Dynamics of water conveying SWCNT nanoparticles and swimming microorganisms over a Riga plate subject to heat source/sink. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 2418-2418	6.1	16
828	Interaction of fusion temperature on the magnetic free convection of nano-encapsulated phase change materials within two rectangular fins-equipped porous enclosure. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 124, 327-340	5.3	45
827	Effect of internal heat generation or absorption on conjugate thermal-free convection of a suspension of hybrid nanofluid in a partitioned circular annulus. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105397	5.8	7
826	Thermal convection in a cubical region saturated with a temperature-dependent viscosity fluid under the non-uniform temperature profile at vertical wall. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105442	5.8	1
825	Melting process of the nano-enhanced phase change material (NePCM) in an optimized design of shell and tube thermal energy storage (TES): Taguchi optimization approach. *Applied Thermal Engineering*, **2021**, 193, 116945	5.8	11
824	MHD mixed convection of Ag–MgO/water nanofluid in a triangular shape partitioned lid-driven square cavity involving a porous compound. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1467-1484	4.1	19
823	Periodically fully developed nanofluid transport through a wavy module. *Journal of Thermal Analysis and Calorimetry*, **2021**, 144, 779-791	4.1	12
822	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. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1201-1220	4.1	140
821	Heatline visualization of mixed convection inside double lid-driven cavity having heated wavy wall. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 3159-3176	4.1	4
820	Experimental study of an earth-to-air heat exchanger coupled to the solar chimney for heating and cooling applications in arid regions. *Journal of Thermal Analysis and Calorimetry*, **2021**, 145, 3349-3358	4.1	12
819	Carbon nanotubes (CNTs)-based flow between two spinning discs with porous medium, Cattaneo–Christov (non-Fourier) model and convective thermal condition. *Journal of Thermal Analysis and Calorimetry*, **2021**, 146, 241-252	4.1	9
818	Numerical analysis of rarefied gaseous flows in a square partially heated two-sided wavy cavity with internal heat generation. *Journal of Thermal Analysis and Calorimetry*, **2021**, 146, 311-323	4.1	5
817	Impact of heat source on combined convection flow inside wavy-walled cavity filled with nanofluids via heatline concept. *Applied Mathematics and Computation*, **2021**, 393, 125754	2.7	8
816	Magneto-hydrodynamic thermal convection of Cu–Al2O3/water hybrid nanofluid saturated with porous media subjected to half-sinusoidal nonuniform heating. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1727-1753	4.1	45
815	Magneto-thermal-convection stability in an inclined cylindrical annulus filled with a molten metal. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, 31, 1172-1189	4.5	37
814	Effects of half-sinusoidal nonuniform heating during MHD thermal convection in Cu–Al2O3/water hybrid nanofluid saturated with porous media. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1665-1688	4.1	37

813	Impact of two-phase hybrid nanofluid approach on mixed convection inside wavy lid-driven cavity having localized solid block. *Journal of Advanced Research*, **2021**, 30, 63-74	13	33
812	Lattice Boltzmann simulation of natural convection in a square enclosure with discrete heating. *Mathematics and Computers in Simulation*, **2021**, 179, 265-278	3.3	6
811	Experimental investigation on cooling the photovoltaic panel using hybrid nanofluids. *Applied Nanoscience (Switzerland)*, **2021**, 11, 363-374	3.3	28
810	MHD conjugate heat transfer and entropy generation analysis of MWCNT/water nanofluid in a partially heated divided medium. *Heat Transfer*, **2021**, 50, 126-144	3.1	7
809	Hall and ion slip effects on magnetohydrodynamic convective rotating flow of Jeffreys fluid over an impulsively moving vertical plate embedded in a saturated porous medium with Ramped wall temperature. *Numerical Methods for Partial Differential Equations*, **2021**, 37, 2150-2177	2.5	19
808	Numerical investigation on unsteady MHD convective rotating flow past an infinite vertical moving porous surface. *Ain Shams Engineering Journal*, **2021**, 12, 2099-2109	4.4	18
807	Transportation of magnetite nanofluid flow and heat transfer over a rotating porous disk with Arrhenius activation energy: Fourth order Noumerov method. *Chinese Journal of Physics*, **2021**, 69, 172-185	3.5	28
806	Investigation of nanoparticles Cu, Ag and Fe3O4 on thermophoresis and viscous dissipation of MHD nanofluid over a stretching sheet in a porous regime: A numerical modeling. *Mathematics and Computers in Simulation*, **2021**, 182, 819-837	3.3	40
805	Enhancement of the turbulent convective heat transfer in channels through the baffling technique and oil/multiwalled carbon nanotube nanofluids. *Numerical Heat Transfer; Part A: Applications*, **2021**, 79, 311-351	2.3	16
804	A three-dimensional thermal analysis and optimization of square light edding diode subcomponents. *International Communications in Heat and Mass Transfer*, **2021**, 120, 105016	5.8	7
803	Unsteady flow and entropy analysis of nanofluids inside cubic porous container holding inserted body and wavy bottom wall. *International Journal of Mechanical Sciences*, **2021**, 193, 106161	5.5	12
802	A numerical simulation of mixed convective and arbitrarily oblique radiative stagnation point slip flow of a CNT-water MHD nanofluid. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1901-1916	4.1	8
801	Hall and ion slip impacts on unsteady MHD convective rotating flow of heat generating/absorbing second grade fluid. *AEJ - Alexandria Engineering Journal*, **2021**, 60, 845-858	6.1	90
800	Local thermal nonequilibrium effect on nanofluid filled porous cavity subject to mixed convection heat transfer. *Heat Transfer*, **2021**, 50, 1268-1286	3.1	
799	Effects of various configurations of an inserted corrugated conductive cylinder on MHD natural convection in a hybrid nanofluid-filled square domain. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1399-1411	4.1	12
798	HEAT AND MASS TRANSFER ON UNSTEADY MHD FLOW THROUGH AN INFINITE OSCILLATING VERTICAL POROUS SURFACE. *Journal of Porous Media*, **2021**, 24, 81-100	2.9	18
797	CFD-Based Simulation and Analysis of Hydrothermal Aspects in Solar Channel Heat Exchangers with Various Designed Vortex Generators. *CMES - Computer Modeling in Engineering and Sciences*, **2021**, 126, 147-173	1.7	3
796	Effects of magnetic field inclination and internal heat sources on nanofluid heat transfer and entropy generation in a double lid driven L-shaped cavity. *Thermal Science*, **2021**, 25, 1033-1046	1.2	6

795	MHD natural convection of a CNT-based nanofluid-filled annular circular enclosure with inner heat-generating solid cylinder. *European Physical Journal Plus*, **2021**, 136, 1	3.1	8
794	Effect of partial open on natural convection heat transfer of CNT–water nanofluid in a square cavity with magnetic field. *European Physical Journal Plus*, **2021**, 136, 1	3.1	1
793	Bioconvection in a Convectional Nanofluid Flow Containing Gyrotactic Microorganisms over an Isothermal Vertical Cone Embedded in a Porous Surface with Chemical Reactive Species. *Arabian Journal for Science and Engineering*, **2021**, 46, 2493-2503	2.5	37
792	Analysis of mixed convection in an inclined square cavity using nanofluids with Vajjha and Das' nanofluid model. *Heat Transfer*, **2021**, 50, 4744-4756	3.1	2
791	A Spectral Relaxation Approach for Boundary Layer Flow of Nanofluid Past an Exponentially Stretching Surface with Variable Suction in the Presence of Heat Source/Sink with Viscous Dissipation. *Arabian Journal for Science and Engineering*, **2021**, 46, 7509-7520	2.5	5
790	Blood Flow Mediated Hybrid Nanoparticles in Human Arterial System: Recent Research, Development and Applications. *Journal of Nanofluids*, **2021**, 10, 1-30	2.2	2
789	Controlling the hydrodynamic forces on a square cylinder in a channel via an upstream porous plate. *Mathematics and Computers in Simulation*, **2021**, 185, 272-288	3.3	1
788	Entropy production and mixed convection within trapezoidal cavity having nanofluids and localised solid cylinder. *Scientific Reports*, **2021**, 11, 14700	4.9	8
787	Thermal-natural convection and entropy production behavior of hybrid nanoliquid flow under the effects of magnetic field through a porous wavy cavity embodies three circular cylinders. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 124, 162-173	5.3	40
786	Natural convection of CuO-water nanofluid in a conventional oil/water separator cavity: Application to combined-cycle power plants. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 124, 307-319	5.3	54
785	Effect of surface waviness on MHD thermo-gravitational convection of Cu–Al2O3–water hybrid nanofluid in a porous oblique enclosure. *Physica Scripta*, **2021**, 96, 105002	2.6	16
784	Effects of fins on magnetohydrodynamic conjugate natural convection in a nanofluid-saturated porous inclined enclosure. *International Communications in Heat and Mass Transfer*, **2021**, 126, 105413	5.8	12
783	Exergy and energy analysis of a tubular solar still with and without fins: a comparative theoretical and experimental approach. *Environmental Science and Pollution Research*, **2021**, 1	5.1	3
782	Hydrothermal and entropy production analyses of magneto-cross nanoliquid under rectified Fourier viewpoint: A robust approach to industrial applications. *Case Studies in Thermal Engineering*, **2021**, 26, 100974	5.6	6
781	Lubricating hot stretching membrane with a thin hybrid nanofluid squeezed film under oscillatory compression. *European Physical Journal Plus*, **2021**, 136, 1	3.1	6
780	Magnetohydrodynamic thermal characteristics of water-based hybrid nanofluid-filled non-Darcian porous wavy enclosure: effect of undulation. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2021**, ahead-of-print,	4.5	6
779	Experimental studies on natural convection open and closed solar drying using external reflector. *Environmental Science and Pollution Research*, **2021**, 1	5.1	2
778	Thermo-economic and entropy generation analyses of magnetic natural convective flow in a nanofluid-filled annular enclosure fitted with fins. *Sustainable Energy Technologies and Assessments*, **2021**, 46, 101274	4.7	49

777	Convective stability of a permeable nanofluid inside a horizontal conduit: Fast chemical reactions. *Mathematics and Computers in Simulation*, **2021**, 187, 155-170	3.3	6
776	Radiation absorption on MHD convective flow of nanofluids through vertically travelling absorbent plate. *Ain Shams Engineering Journal*, **2021**, 12, 3043-3056	4.4	17
775	Non-Newtonian phase change study of nano-enhanced n-octadecane comprising mesoporous silica in a porous medium. *Applied Mathematical Modelling*, **2021**, 97, 463-482	4.5	1
774	Buoyancy-driven convection of MWCNT Casson nanofluid in a wavy enclosure with a circular barrier and parallel hot/cold fins. *AEJ - Alexandria Engineering Journal*, **2021**, 61, 3249-3249	6.1	5
773	Dissection of entropy production for the free convection of NEPCMs-filled porous wavy enclosure subject to volumetric heat source/sink. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**,	5.3	26
772	Transient nanofluid flow and energy dissipation from wavy surface using magnetic field and two rotating cylinders. *Computers and Mathematics With Applications*, **2021**, 97, 329-343	2.7	7
771	Mixed convective transport in inclined porous open arc-shaped enclosures saturated by nanofluids using a second-order Boussinesq approximation. *Case Studies in Thermal Engineering*, **2021**, 27, 101295	5.6	1
770	Radiative MHD flow of Casson hybrid nanofluid over an infinite exponentially accelerated vertical porous surface. *Case Studies in Thermal Engineering*, **2021**, 27, 101229	5.6	57
769	Impact of micro-fins on a heated cylinder submerged in a nanofluid saturated medium. *International Journal of Heat and Mass Transfer*, **2021**, 177, 121551	4.9	1
768	Natural convection and entropy generation of a nanoliquid in a crown wavy cavity: Effect of thermo-physical parameters and cavity shape. *Case Studies in Thermal Engineering*, **2021**, 27, 101208	5.6	25
767	Thermal and entropy analyses on buoyancy-driven flow of nanofluid inside a porous enclosure with two square cylinders: Finite element method. *Case Studies in Thermal Engineering*, **2021**, 27, 101298	5.6	38
766	Role of surface undulation during mixed bioconvective nanofluid flow in porous media in presence of oxytactic bacteria and magnetic fields. *International Journal of Mechanical Sciences*, **2021**, 211, 106778	5.5	21
765	INFLUENCE OF SORET AND DUFOUR EFFECTS ON MIXED CONVECTION FLOW OVER A VERTICAL CONE WITH INJECTION/SUCTION EFFECTS. *Journal of Porous Media*, **2021**, 24, 73-88	2.9	6
764	Computational analysis of the thermal performance of rarefied air flow in V-shaped microchannels. *Heat Transfer*, **2021**, 50, 3977-3995	3.1	1
763	Augmenting the potable water produced from single slope solar still using CNT-doped paraffin wax as energy storage: an experimental approach. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2020**, 42, 1	2	14
762	Convection Heat Transfer in 3D Wavy Direct Absorber Solar Collector Based on Two-Phase Nanofluid Approach. *Applied Sciences (Switzerland)*, **2020**, 10, 7265	2.6	3
761	MHD buoyancy-driven flow in a nanoliquid filled-square enclosure divided by a solid conductive wall. *Mathematical Methods in the Applied Sciences*, **2020**,	2.3	4
760	Natural convection and entropy production in hybrid nanofluid filled-annular elliptical cavity with internal heat generation or absorption. *Thermal Science and Engineering Progress*, **2020**, 19, 100605	3.6	48

759	Entropy Generation and Mixed Convection Flow Inside a Wavy-Walled Enclosure Containing a Rotating Solid Cylinder and a Heat Source. *Entropy*, **2020**, 22,	2.8	10
758	Magnetohydrodynamics energy transport inside a double lid-driven wavy-walled chamber: Impacts of inner solid cylinder and two-phase nanoliquid approach. *International Journal of Mechanical Sciences*, **2020**, 184, 105846	5.5	11
757	Heat and mass transfer analysis of unsteady hybrid nanofluid flow over a stretching sheet with thermal radiation. *SN Applied Sciences*, **2020**, 2, 1	1.8	59
756	Free convection heat transfer analysis of a suspension of nano-encapsulated phase change materials (NEPCMs) in an inclined porous cavity. *International Journal of Thermal Sciences*, **2020**, 157, 106503	4.1	92
755	Entropy analysis and unsteady MHD mixed convection stagnation-point flow of Casson nanofluid around a rotating sphere. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 1693-1703	6.1	17
754	Effects of a Rotating Cone on the Mixed Convection in a Double Lid-Driven 3D Porous Trapezoidal Nanofluid Filled Cavity under the Impact of Magnetic Field. *Nanomaterials*, **2020**, 10,	5.4	25
753	Inclined magneto: convection, internal heat, and entropy generation of nanofluid in an I-shaped cavity saturated with porous media. *Journal of Thermal Analysis and Calorimetry*, **2020**, 142, 2273-2285	4.1	20
752	Role of Rotating Cylinder toward Mixed Convection inside a Wavy Heated Cavity via Two-Phase Nanofluid Concept. *Nanomaterials*, **2020**, 10,	5.4	29
751	Energy transport of two-phase nanofluid approach inside a three-dimensional lid-driven cubic cavity containing solid cylinder and heat source. *Chemical Engineering and Processing: Process Intensification*, **2020**, 154, 108010	3.7	6
750	Magnetohydrodynamic Mixed Convection and Entropy Analysis of Nanofluid in Gamma-Shaped Porous Cavity. *Journal of Thermophysics and Heat Transfer*, **2020**, 34, 836-847	1.3	55
749	Numerical investigation of rarefied gaseous flows in an oblique wavy sided walls square cavity. *International Communications in Heat and Mass Transfer*, **2020**, 116, 104719	5.8	19
748	Darcy-Forchheimer relation in Casson type MHD nanofluid flow over non-linear stretching surface. *Propulsion and Power Research*, **2020**, 9, 159-168	3.6	38
747	Unsteady natural convection of water adjacent to the sidewall of a differentially heated cavity with multiple fins. *International Communications in Heat and Mass Transfer*, **2020**, 116, 104642	5.8	4
746	A phase change/metal foam heatsink for thermal management of battery packs. *International Journal of Thermal Sciences*, **2020**, 157, 106514	4.1	19
745	Advances of nanofluids in heat exchangers-A review. *Heat Transfer*, **2020**, 49, 4321-4349	3.1	15
744	Controlling the natural convection flow through a flexible baffle in an L-shaped enclosure. *Meccanica*, **2020**, 55, 1561-1584	2.1	9
743	NUMERICAL INVESTIGATION OF NATURAL CONVECTION NANOFLUID FLOW IN AN ANNULAR SPACE BETWEEN CONFOCAL ELLIPTIC CYLINDERS AT VARIOUS GEOMETRICAL ORIENTATIONS. *Computational Thermal Sciences*, **2020**, 12, 99-114	1.9	2
742	Thermo-magnetohydrodynamic effects on Cu + engine oil/water nanofluid flow in a porous media-filled annular region bounded by two rotating cylinders. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2020**, 234, 2360-2375	1.3	1

741	Pulsating Flow of CNT–Water Nanofluid Mixed Convection in a Vented Trapezoidal Cavity with an Inner Conductive T-Shaped Object and Magnetic Field Effects. *Energies*, **2020**, 13, 848	3.1	10
740	Hall and ion slip effects on unsteady MHD free convective rotating flow through a saturated porous medium over an exponential accelerated plate. *AEJ - Alexandria Engineering Journal*, **2020**, 59, 565-577	6.1	126
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