

# Iskander Tlili

## List of Publications by Year in descending order

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207  
papers

7,347  
citations

50276

46  
h-index

98798

67  
g-index

207  
all docs

207  
docs citations

207  
times ranked

3563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transfer simulation of heat storage unit with nanoparticles and fins through a heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 470-478.	4.8	341
2	Applications of nanofluids containing carbon nanotubes in solar energy systems: A review. <i>Journal of Molecular Liquids</i> , 2020, 313, 113476.	4.9	190
3	Entropy Generation and Consequences of Binary Chemical Reaction on MHD Darcy–Forchheimer Williamson Nanofluid Flow Over Non-Linearly Stretching Surface. <i>Entropy</i> , 2020, 22, 18.	2.2	173
4	Design and performance optimization of GPU-3 Stirling engines. <i>Energy</i> , 2008, 33, 1100-1114.	8.8	136
5	Experimental Investigation on Thermal Performance of a PV/T-PCM (Photovoltaic/Thermal) System Cooling with a PCM and Nanofluid. <i>Energies</i> , 2019, 12, 2572.	3.1	126
6	Nanotechnology for water purification: electrospun nanofibrous membrane in water and wastewater treatment. <i>Journal of Water Reuse and Desalination</i> , 2019, 9, 232-248.	2.3	117
7	Natural bioconvection flow of a nanofluid containing gyrotactic microorganisms about a truncated cone. <i>European Journal of Mechanics, B/Fluids</i> , 2019, 75, 133-142.	2.5	115
8	Uniform magnetic force impact on water based nanofluid thermal behavior in a porous enclosure with ellipse shaped obstacle. <i>Scientific Reports</i> , 2019, 9, 1196.	3.3	102
9	Analysis and design consideration of mean temperature differential Stirling engine for solar application. <i>Renewable Energy</i> , 2008, 33, 1911-1921.	8.9	99
10	Prediction of viscosity of biodiesel blends using various artificial model and comparison with empirical correlations. <i>Renewable Energy</i> , 2020, 153, 1296-1306.	8.9	99
11	A Numerical Exploration of Modified Second-Grade Nanofluid with Motile Microorganisms, Thermal Radiation, and Wu’s Slip. <i>Symmetry</i> , 2020, 12, 393.	2.2	97
12	Case study of MHD blood flow in a porous medium with CNTs and thermal analysis. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 374-380.	5.7	92
13	3-D magnetohydrodynamic AA7072-AA7075/methanol hybrid nanofluid flow above an uneven thickness surface with slip effect. <i>Scientific Reports</i> , 2020, 10, 4265.	3.3	92
14	Performance optimization of Stirling engines. <i>Renewable Energy</i> , 2008, 33, 2134-2144.	8.9	88
15	Investigation of Hydrothermal Behavior of Fe <sub>3</sub> O <sub>4</sub> -H <sub>2</sub> O Nanofluid Natural Convection in a Novel Shape of Porous Cavity Subjected to Magnetic Field Dependent (MFD) Viscosity. <i>Journal of Energy Storage</i> , 2020, 30, 101395.	8.1	88
16	Heat transfer simulation during charging of nanoparticle enhanced PCM within a channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 525, 557-565.	2.6	78
17	Towards Sustainable Textile and Apparel Industry: Exploring the Role of Business Intelligence Systems in the Era of Industry 4.0. <i>Sustainability</i> , 2020, 12, 2632.	3.2	77
18	Renewable energy in Saudi Arabia: current status and future potentials. <i>Environment, Development and Sustainability</i> , 2015, 17, 859-886.	5.0	76

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19	3D MHD nonlinear radiative flow of CuO-MgO/methanol hybrid nanofluid beyond an irregular dimension surface with slip effect. <i>Scientific Reports</i> , 2020, 10, 9181.	3.3	76
20	Interaction of Wu's Slip Features in Bioconvection of Eyring Powell Nanoparticles with Activation Energy. <i>Processes</i> , 2019, 7, 859.	2.8	75
21	Nanofluid MHD forced convection heat transfer around the elliptic obstacle inside a permeable lid drive 3D enclosure considering lattice Boltzmann method. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 523, 87-104.	2.6	72
22	Numerical Investigation of Forced Convective Heat Transfer and Performance Evaluation Criterion of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid Flow inside an Axisymmetric Microchannel. <i>Symmetry</i> , 2020, 12, 120.	2.2	71
23	Finite time thermodynamic evaluation of endoreversible Stirling heat engine at maximum power conditions. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2234-2241.	16.4	70
24	Thermal evaluation of a heat pipe working with n-pentane-acetone and n-pentane-methanol binary mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2435-2445.	3.6	70
25	Activation Energy and Second Order Slip in Bioconvection of Oldroyd-B Nanofluid over a Stretching Cylinder: A Proposed Mathematical Model. <i>Processes</i> , 2019, 7, 914.	2.8	67
26	Potential of Solar Collectors for Clean Thermal Energy Production in Smart Cities using Nanofluids: Experimental Assessment and Efficiency Improvement. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1877.	2.5	66
27	Multiple slips effects on MHD SA-Al <sub>2</sub> O <sub>3</sub> and SA-Cu non-Newtonian nanofluids flow over a stretching cylinder in porous medium with radiation and chemical reaction. <i>Results in Physics</i> , 2018, 8, 213-222.	4.1	65
28	Thermal Evaluation of Graphene Nanoplatelets Nanofluid in a Fast-Responding HP with the Potential Use in Solar Systems in Smart Cities. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2101.	2.5	63
29	MHD Flow of Nanofluid Flow Across Horizontal Circular Cylinder: Steady Forced Convection. <i>Journal of Nanofluids</i> , 2019, 8, 179-186.	2.7	62
30	The influence of upstream wavy surface on the mixing zone of the transverse hydrogen jet at supersonic free stream. <i>Aerospace Science and Technology</i> , 2019, 94, 105407.	4.8	60
31	Thermal Conductivity Modeling of Nanofluids Contain MgO Particles by Employing Different Approaches. <i>Symmetry</i> , 2020, 12, 206.	2.2	60
32	Experimental study of temperature and mass fraction effects on thermal conductivity and dynamic viscosity of SiO <sub>2</sub> -oleic acid/liquid paraffin nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 110, 104436.	5.6	59
33	Thermal management of MHD nanofluid within the porous medium enclosed in a wavy shaped cavity with square obstacle in the presence of radiation heat source. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 87-94.	4.8	58
34	MHD Flow and Heat Transfer over Vertical Stretching Sheet with Heat Sink or Source Effect. <i>Symmetry</i> , 2019, 11, 297.	2.2	58
35	Stability Analysis of Darcy-Forchheimer Flow of Casson Type Nanofluid Over an Exponential Sheet: Investigation of Critical Points. <i>Symmetry</i> , 2019, 11, 412.	2.2	57
36	A mathematical model for bioconvection flow of Williamson nanofluid over a stretching cylinder featuring variable thermal conductivity, activation energy and second-order slip. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 205-217.	3.6	57

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37	On the MHD Casson Axisymmetric Marangoni Forced Convective Flow of Nanofluids. <i>Mathematics</i> , 2019, 7, 1087.	2.2	54
38	Prediction of MHD flow and entropy generation by Artificial Neural Network in square cavity with heater-sink for nanomaterial. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 541, 123520.	2.6	54
39	Role of various configurations of a wavy circular heater on convective heat transfer within an enclosure filled with nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 113, 104525.	5.6	54
40	Effect of asymmetrical heat rise/fall on the film flow of magnetohydrodynamic hybrid ferrofluid. <i>Scientific Reports</i> , 2020, 10, 6677.	3.3	54
41	Thermodynamic evaluation of a second order simulation for Yoke Ross Stirling engine. <i>Energy Conversion and Management</i> , 2013, 68, 149-160.	9.2	53
42	Aspects of Chemical Entropy Generation in Flow of Casson Nanofluid between Radiative Stretching Disks. <i>Entropy</i> , 2020, 22, 495.	2.2	53
43	Entropy Generation in MHD Mixed Convection Non-Newtonian Second-Grade Nanoliquid Thin Film Flow through a Porous Medium with Chemical Reaction and Stratification. <i>Entropy</i> , 2019, 21, 139.	2.2	53
44	Irreversibility Analysis of Hybrid Nanofluid Flow over a Thin Needle with Effects of Energy Dissipation. <i>Symmetry</i> , 2019, 11, 663.	2.2	52
45	Impact of Nonlinear Thermal Radiation and the Viscous Dissipation Effect on the Unsteady Three-Dimensional Rotating Flow of Single-Wall Carbon Nanotubes with Aqueous Suspensions. <i>Symmetry</i> , 2019, 11, 207.	2.2	52
46	Hybrid nanoparticles dispersion into water inside a porous wavy tank involving magnetic force. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1993-1999.	3.6	52
47	Simulation of nanoliquid thermogravitational convection within a porous chamber imposing magnetic and radiation impacts. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124058.	2.6	52
48	Thermal variable conductivity features in Buongiorno nanofluid model between parallel stretching disks: Improving energy system efficiency. <i>Case Studies in Thermal Engineering</i> , 2021, 23, 100820.	5.7	52
49	Entropy Generation in Cu-Al <sub>2</sub> O <sub>3</sub> -H <sub>2</sub> O Hybrid Nanofluid Flow over a Curved Surface with Thermal Dissipation. <i>Entropy</i> , 2019, 21, 941.	2.2	51
50	Renewable energy resources and workforce case study Saudi Arabia: review and recommendations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 221-230.	3.6	50
51	Thermodynamic analysis of the Stirling heat engine with regenerative losses and internal irreversibilities. <i>International Journal of Engine Research</i> , 2008, 9, 45-56.	2.3	49
52	Enhancement of heat transfer rate of solar energy via rotating Jeffrey nanofluids using Caputo-Fabrizio fractional operator: An application to solar energy. <i>Energy Reports</i> , 2019, 5, 41-49.	5.1	49
53	The Penetration of Renewable and Sustainable Energy in Asia: A State-of-the-Art Review on Net-Metering. <i>IEEE Access</i> , 2020, 8, 170364-170388.	4.2	49
54	Free convection/radiation and entropy generation analyses for nanofluid of inclined square enclosure with uniform magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 635-648.	3.6	47

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55	Designing a powered combined Otto and Stirling cycle power plant through multi-objective optimization approach. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 585-595.	16.4	46
56	Thermodynamic analysis of MHD Couette-Poiseuille flow of water-based nanofluids in a rotating channel with radiation and Hall effects. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1899-1912.	3.6	45
57	Nanomaterial thermal treatment along a permeable cylinder. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3309-3315.	3.6	45
58	Energy transfer of Jeffery-Hamel nanofluid flow between non-parallel walls using Maxwell-Garnett (MG) and Brinkman models. <i>Energy Reports</i> , 2018, 4, 393-399.	5.1	44
59	Significance of Bioconvective and Thermally Dissipation Flow of Viscoelastic Nanoparticles with Activation Energy Features: Novel Biofuels Significance. <i>Symmetry</i> , 2020, 12, 214.	2.2	44
60	Effects of nonlinear thermal radiation and activation energy on modified second-grade nanofluid with Cattaneo-Christov expressions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1175-1186.	3.6	44
61	A new Caputo time fractional model for heat transfer enhancement of water based graphene nanofluid: An application to solar energy. <i>Results in Physics</i> , 2018, 9, 1352-1362.	4.1	43
62	Analysis of a single-phase natural circulation loop with hybrid-nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2020, 112, 104498.	5.6	43
63	Effects of Different Shaped Nanoparticles on the Performance of Engine-Oil and Kerosene-Oil: A generalized Brinkman-Type Fluid model with Non-Singular Kernel. <i>Scientific Reports</i> , 2018, 8, 15285.	3.3	42
64	Simulation of convection heat transfer of magnetic nanoparticles including entropy generation using CVFEM. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 146-156.	4.8	41
65	Thermo-fluidic significance of non Newtonian fluid with hybrid nanostructures. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101092.	5.7	41
66	Fractional Order Forced Convection Carbon Nanotube Nanofluid Flow Passing Over a Thin Needle. <i>Symmetry</i> , 2019, 11, 312.	2.2	40
67	Utilization of Second Order Slip, Activation Energy and Viscous Dissipation Consequences in Thermally Developed Flow of Third Grade Nanofluid with Gyrotactic Microorganisms. <i>Symmetry</i> , 2020, 12, 309.	2.2	40
68	Thermal analysis of a binary base fluid in pool boiling system of glycol-water alumina nano-suspension. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 2453-2462.	3.6	40
69	Entropy generation in MHD mixed convection stagnation-point flow in the presence of joule and frictional heating. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 292-300.	5.7	39
70	Entropy optimization analysis on nonlinear thermal radiative electromagnetic Darcy-Forchheimer flow of SWCNT/MWCNT nanomaterials. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 399-418.	3.1	39
71	Thermal analysis in Stokes <sup>TM</sup> second problem of nanofluid: Applications in thermal engineering. <i>Case Studies in Thermal Engineering</i> , 2018, 12, 271-275.	5.7	37
72	Thermal analysis and thermo-hydraulic characteristics of zirconia-water nanofluid under a convective boiling regime. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2413-2422.	3.6	37

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73	Effects of Chemical Species and Nonlinear Thermal Radiation with 3D Maxwell Nanofluid Flow with Double Stratification – An Analytical Solution. <i>Entropy</i> , 2020, 22, 453.	2.2	37
74	The effect of alcohol – gasoline fuel blends on the engines' performances and emissions. <i>Fuel</i> , 2020, 276, 117977.	6.4	37
75	Thermodynamic Analysis of MHD Heat and Mass Transfer of Nanofluids Past a Static Wedge with Navier Slip and Convective Boundary Conditions. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 1255-1267.	3.0	36
76	Effects of Relative Magnetic Field, Chemical Reaction, Heat Generation and Newtonian Heating on Convection Flow of Casson Fluid over a Moving Vertical Plate Embedded in a Porous Medium. <i>Scientific Reports</i> , 2019, 9, 400.	3.3	36
77	Simultaneous effects of heterogeneous-homogeneous reactions in peristaltic flow comprising thermal radiation: Rabinowitsch fluid model. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3520-3529.	5.8	36
78	Effect of radiation on engine oil-TC4/NiCr mixture nanofluid flow over a revolving cone in mutable permeable medium. <i>Ain Shams Engineering Journal</i> , 2020, 11, 1255-1263.	6.1	36
79	Radiative MHD Nanofluid Flow over a Moving Thin Needle with Entropy Generation in a Porous Medium with Dust Particles and Hall Current. <i>Entropy</i> , 2020, 22, 354.	2.2	34
80	Role of magnetic force on the transportation of nanopowders including radiation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 685-692.	3.6	34
81	Impact of heated triangular ribs on hydrodynamic forces in a rectangular domain with heated elliptic cylinder: Finite element analysis. <i>International Communications in Heat and Mass Transfer</i> , 2020, 112, 104501.	5.6	33
82	Effects MHD and Heat Generation on Mixed Convection Flow of Jeffrey Fluid in Microgravity Environment over an Inclined Stretching Sheet. <i>Symmetry</i> , 2019, 11, 438.	2.2	32
83	Probabilistic Generation Model of Solar Irradiance for Grid Connected Photovoltaic Systems Using Weibull Distribution. <i>Sustainability</i> , 2020, 12, 2241.	3.2	32
84	Applications of activation energy along with thermal and exponential space-based heat source in bioconvection assessment of magnetized third grade nanofluid over stretched cylinder/sheet. <i>Case Studies in Thermal Engineering</i> , 2021, 26, 101043.	5.7	32
85	MHD fractional Jeffrey's fluid flow in the presence of thermo diffusion, thermal radiation effects with first order chemical reaction and uniform heat flux. <i>Results in Physics</i> , 2018, 10, 10-17.	4.1	31
86	Non-equilibrium Model for Nanofluid Free Convection Inside a Porous Cavity Considering Lorentz Forces. <i>Scientific Reports</i> , 2018, 8, 16881.	3.3	31
87	Runge-Kutta 4th-order method analysis for viscoelastic Oldroyd 8-constant fluid used as coating material for wire with temperature dependent viscosity. <i>Scientific Reports</i> , 2018, 8, 14504.	3.3	31
88	Activation energy and bioconvection aspects in generalized second-grade nanofluid over a Riga plate: a theoretical model. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4445-4458.	3.1	31
89	Scaling group analysis of bioconvective micropolar fluid flow and heat transfer in a porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1943-1955.	3.6	31
90	Nonlinear Rosseland thermal radiation and energy dissipation effects on entropy generation in CNTs suspended nanofluids flow over a thin needle. <i>Boundary Value Problems</i> , 2018, 2018, .	0.7	30

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91	Current controller design for DFIC-based wind turbines using state feedback control. IET Renewable Power Generation, 2019, 13, 1938-1948.	3.1	30
92	Heat transfer analysis in convective flows of fractional second grade fluids with Caputo-Fabrizio and Atangana-Baleanu derivative subject to Newtonian heating. Mechanics of Time-Dependent Materials, 2021, 25, 291-311.	4.4	30
93	Increase thermal conductivity of aqueous mixture by additives graphene nanoparticles in water via an experimental/numerical study: Synthesis, characterization, conductivity measurement, and neural network modeling. International Communications in Heat and Mass Transfer, 2020, 118, 104864.	5.6	30
94	Effect of thermal radiation and chemical reaction on non-Newtonian fluid through a vertically stretching porous plate with uniform suction. Results in Physics, 2018, 9, 1086-1095.	4.1	29
95	New advancement of high performance for a combined cycle power plant: Thermodynamic analysis. Case Studies in Thermal Engineering, 2018, 12, 166-175.	5.7	28
96	A Theoretical Analysis for Mixed Convection Flow of Maxwell Fluid between Two Infinite Isothermal Stretching Disks with Heat Source/Sink. Symmetry, 2020, 12, 62.	2.2	28
97	Thermal and species transportation of Eyring-Powell material over a rotating disk with swimming microorganisms: applications to metallurgy. Journal of Materials Research and Technology, 2020, 9, 5577-5590.	5.8	28
98	Entropy Generation Due to MHD Stagnation Point Flow of a Nanofluid on a Stretching Surface in the Presence of Radiation. Journal of Nanofluids, 2018, 7, 879-890.	2.7	28
99	Investigation of nanofluid conduction heat transfer within a triplex tube considering solidification. Journal of Molecular Liquids, 2019, 290, 111232.	4.9	26
100	Thermodynamic potential of a high-concentration hybrid photovoltaic/thermal plant for co-production of steam and electricity. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1389-1398.	3.6	26
101	Design of State Feedback Current Controller for Fast Synchronization of DFIC in Wind Power Generation Systems. Energies, 2019, 12, 2427.	3.1	25
102	Water management and desalination in KSA view 2030. Journal of Thermal Analysis and Calorimetry, 2020, 139, 3745-3756.	3.6	25
103	Marangoni convective nanofluid flow over an electromagnetic actuator in the presence of first-order chemical reaction. Heat Transfer - Asian Research, 2020, 49, 274-288.	2.8	25
104	Analysis of Thermal Creep Effects on Fluid Flow and Heat Transfer in a Microchannel Gas Heating. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	25
105	The molecular dynamics study of vacancy defect influence on carbon nanotube performance as drug delivery system. Engineering Analysis With Boundary Elements, 2022, 143, 109-123.	3.7	25
106	Solidification process through a solar energy storage enclosure using various sizes of Al <sub>2</sub> O <sub>3</sub> nanoparticles. Journal of Molecular Liquids, 2019, 275, 941-954.	4.9	24
107	Modeling of Business Intelligence Systems Using the Potential Determinants and Theories with the Lens of Individual, Technological, Organizational, and Environmental Contexts-A Systematic Literature Review. Applied Sciences (Switzerland), 2020, 10, 3208.	2.5	24
108	Unsteady MHD flow of a Brinkman type fluid between two side walls perpendicular to an infinite plate. Results in Physics, 2018, 9, 1602-1608.	4.1	23

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109	Transient nanofluid squeezing cooling process using aluminum oxide nanoparticle. International Journal of Modern Physics C, 2019, 30, 1950078.	1.7	23
110	A novel model to analyze Darcy Forchheimer nanofluid flow in a permeable medium with Entropy generation analysis. Journal of Taibah University for Science, 2020, 14, 916-930.	2.5	23
111	Finite difference simulations for non-isothermal hydromagnetic peristaltic flow of a bio-fluid in a curved channel: Applications to physiological systems. Computer Methods and Programs in Biomedicine, 2020, 195, 105672.	4.7	23
112	Efficacy of incorporating PCMs into the commercial wall on the energy-saving annual thermal analysis. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2179-2187.	3.6	23
113	Innovative thermodynamic parametric investigation of gas and steam bottoming cycles with heat exchanger and heat recovery steam generator: Energy and exergy analysis. Energy Reports, 2018, 4, 497-506.	5.1	22
114	Natural convection flow of second grade fluid with thermal radiation and damped thermal flux between vertical channels. AEJ - Alexandria Engineering Journal, 2019, 58, 1119-1125.	6.4	22
115	Influence of metallic nanoparticles in water driven along a wavy circular cylinder. Chinese Journal of Physics, 2020, 63, 168-185.	3.9	22
116	Unsteady flow of Rabinowitsch fluid peristaltic transport in a non-uniform channel with temperature-dependent properties. AEJ - Alexandria Engineering Journal, 2020, 59, 4745-4758.	6.4	22
117	Entropy generation for spiral heat exchanger with considering NEPCM charging process using hybrid nanomaterial. European Physical Journal Plus, 2020, 135, 1.	2.6	22
118	Hermiteâ€“Jensenâ€“Mercer Type Inequalities for Caputo Fractional Derivatives. Journal of Function Spaces, 2020, 2020, 1-11.	0.9	22
119	Analysis of generalized micropolar nanofluid with swimming of microorganisms over an accelerated surface with activation energy. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1051-1063.	3.6	22
120	Comparative analysis of dish Stirling engine and photovoltaic technologies: Energy and economic perspective. Sustainable Energy Technologies and Assessments, 2021, 44, 101028.	2.7	22
121	Convective Bubbly Flow of Water in an Annular Pipe: Role of Total Dissolved Solids on Heat Transfer Characteristics and Bubble Formation. Water (Switzerland), 2019, 11, 1566.	2.7	21
122	Design of heat exchanger with combined turbulator. Journal of Thermal Analysis and Calorimetry, 2020, 139, 649-659.	3.6	21
123	Effect of copper nanoparticles on thermal behavior of water flow in a zig-zag nanochannel using molecular dynamics simulation. International Communications in Heat and Mass Transfer, 2020, 116, 104652.	5.6	21
124	Thermal Behavior of Auxetic Honeycomb Structure: An Experimental and Modeling Investigation. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	20
125	Suggestion of new correlations for the exergy efficiency and coefficient of exergy performance of annulus section of conically coiled tube-in-tube heat exchangers. Chemical Engineering Research and Design, 2019, 152, 309-319.	5.6	20
126	Applying artificial neural network and curve fitting method to predict the viscosity of SAE50/MWCNTs-TiO2 hybrid nanolubricant. Physica A: Statistical Mechanics and Its Applications, 2020, 549, 123946.	2.6	20



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127	Photo-catalytic pretreatment of biomass for anaerobic digestion using visible light and Nickle oxide (NiOx) nanoparticles prepared by sol gel method. <i>Renewable Energy</i> , 2020, 154, 128-135.	8.9	20
128	Hybrid nanomaterial flow and heat transport in a stretchable convergent/divergent channel: a Darcy-Forchheimer model. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020, 41, 699-710.	3.6	20
129	Significance of Activation Energy and Effective Prandtl Number in Accelerated Flow of Jeffrey Nanoparticles With Gyrotactic Microorganisms. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	2.3	20
130	Performance enhancement of a combined cycle using heat exchanger bypass control: A thermodynamic investigation. <i>Journal of Cleaner Production</i> , 2018, 192, 443-452.	9.3	19
131	Effect of radiative source term on the behavior of nanomaterial with considering Lorentz forces. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 931-940.	3.6	19
132	Numerical simulations for mixed convective hydromagnetic peristaltic flow in a curved channel with joule heating features. <i>AIP Advances</i> , 2020, 10, 075303.	1.3	19
133	Investigation of nanomaterial flow through non-parallel plates. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3867-3875.	3.6	19
134	Thermodynamic Optimization of New Combined Gas/Steam Power Cycles with HRSG and Heat Exchanger. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 4547-4558.	3.0	18
135	Exact solution of non-Newtonian fluid motion between side walls. <i>Results in Physics</i> , 2018, 11, 534-539.	4.1	18
136	Energy efficiency and economic impact investigations for air-conditioners using wireless sensing and actuator networks. <i>Energy Reports</i> , 2018, 4, 478-485.	5.1	18
137	Investigation of thermal characteristics of carbon nanotubes: Measurement and dependence. <i>Journal of Molecular Liquids</i> , 2019, 294, 111564.	4.9	18
138	Transient process in a finned triplex tube during phase changing of aluminum oxide enhanced PCM. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	17
139	Effects of nano-clay content, foaming temperature and foaming time on density and cell size of PVC matrix foam by presented Least Absolute Shrinkage and Selection Operator statistical regression via suitable experiments as a function of MMT content. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 537, 122637.	2.6	17
140	Internal energy change and activation energy effects on Casson fluid. <i>AIP Advances</i> , 2020, 10, .	1.3	17
141	Analytical solutions for unsteady electrohydrodynamics flows of Maxwell fluids in microchannels with circular cross section. <i>Physics of Fluids</i> , 2020, 32, .	4.0	17
142	On the dynamics of a curved microtubule-associated proteins by considering viscoelastic properties of the living biological cells. <i>Journal of Biomolecular Structure and Dynamics</i> , 2021, 39, 2415-2429.	3.5	17
143	Entropy generation minimization and chemical response for Williamson fluid flow with thermal diffusion. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3123-3131.	3.1	16
144	Thermal analysis of magnetized pseudoplastic nano fluid flow over 3D radiating non-linear surface with passive mass flux control and chemically responsive species. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8125-8135.	5.8	16

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145	Utilization of modified Darcy's law in peristalsis with a compliant channel: applications to thermal science. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5619-5629.	5.8	16
146	Biodiesel Production from <i>Melia azedarach</i> and <i>Ricinus communis</i> Oil by Transesterification Process. <i>Catalysts</i> , 2020, 10, 427.	3.5	16
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