

Zafar Said

List of Publications by Year in descending order

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201
papers

12,032
citations

18436

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202
all docs

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docs citations

202
times ranked

4453
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on thermophysical properties of nanofluids and heat transfer applications. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 638-670.	8.2	422
2	Evaluation of the effect of nanofluid-based absorbers on direct solar collector. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5899-5907.	2.5	259
3	Recent progress on flat plate solar collectors and photovoltaic systems in the presence of nanofluid: A review. <i>Journal of Cleaner Production</i> , 2021, 293, 126119.	4.6	258
4	Performance enhancement of a Flat Plate Solar collector using Titanium dioxide nanofluid and Polyethylene Glycol dispersant. <i>Journal of Cleaner Production</i> , 2015, 92, 343-353.	4.6	220
5	Vegetable oil-based nanofluid minimum quantity lubrication turning: Academic review and perspectives. <i>Journal of Manufacturing Processes</i> , 2020, 59, 76-97.	2.8	210
6	Cryogenic minimum quantity lubrication machining: from mechanism to application. <i>Frontiers of Mechanical Engineering</i> , 2021, 16, 649-697.	2.5	203
7	Mechanics analysis and predictive force models for the single-diamond grain grinding of carbon fiber reinforced polymers using CNT nano-lubricant. <i>Journal of Materials Processing Technology</i> , 2021, 290, 116976.	3.1	192
8	Energy performance of an evacuated tube solar collector using single walled carbon nanotubes nanofluids. <i>Energy Conversion and Management</i> , 2015, 105, 1377-1388.	4.4	188
9	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. <i>Physics Reports</i> , 2022, 946, 1-94.	10.3	179
10	Impact of dust on the performance of solar photovoltaic (PV) systems under United Arab Emirates weather conditions. <i>Renewable Energy</i> , 2019, 141, 287-297.	4.3	178
11	Grindability of titanium alloy using cryogenic nanolubricant minimum quantity lubrication. <i>Journal of Manufacturing Processes</i> , 2022, 80, 273-286.	2.8	175
12	Experimental investigation of the thermophysical properties of AL ₂ O ₃ -nanofluid and its effect on a flat plate solar collector. <i>International Communications in Heat and Mass Transfer</i> , 2013, 48, 99-107.	2.9	170
13	Carbon fiber reinforced polymer in drilling: From damage mechanisms to suppression. <i>Composite Structures</i> , 2022, 286, 115232.	3.1	169
14	Hydrothermal analysis for a parabolic solar unit with wavy absorber pipe and nanofluid. <i>Renewable Energy</i> , 2022, 188, 922-932.	4.3	169
15	The use of nanofluids in solar concentrating technologies: A comprehensive review. <i>Journal of Cleaner Production</i> , 2018, 196, 84-99.	4.6	167
16	Recent advances on nanofluids for low to medium temperature solar collectors: energy, exergy, economic analysis and environmental impact. <i>Progress in Energy and Combustion Science</i> , 2021, 84, 100898.	15.8	166
17	Modification for helical turbulator to augment heat transfer behavior of nanomaterial via numerical approach. <i>Applied Thermal Engineering</i> , 2021, 182, 115935.	3.0	165
18	Recent Advances in Machine Learning Research for Nanofluid-Based Heat Transfer in Renewable Energy System. <i>Energy & Fuels</i> , 2022, 36, 6626-6658.	2.5	164

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19	A comprehensive review on minimum quantity lubrication (MQL) in machining processes using nano-cutting fluids. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2057-2086.	1.5	159
20	Lubrication-enhanced mechanisms of titanium alloy grinding using lecithin biolubricant. <i>Tribology International</i> , 2022, 169, 107461.	3.0	158
21	Tribology of enhanced turning using biolubricants: A comparative assessment. <i>Tribology International</i> , 2022, 174, 107766.	3.0	158
22	Up to date review on the synthesis and thermophysical properties of hybrid nanofluids. <i>Journal of Cleaner Production</i> , 2018, 190, 169-192.	4.6	157
23	Analyses of exergy efficiency and pumping power for a conventional flat plate solar collector using SWCNTs based nanofluid. <i>Energy and Buildings</i> , 2014, 78, 1-9.	3.1	154
24	A review of industrial waste heat recovery system for power generation with Organic Rankine Cycle: Recent challenges and future outlook. <i>Journal of Cleaner Production</i> , 2021, 287, 125070.	4.6	152
25	Circulating purification of cutting fluid: an overview. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 2565-2600.	1.5	152
26	Enhancing the performance of automotive radiators using nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 183-194.	8.2	146
27	Milling Force Model for Aviation Aluminum Alloy: Academic Insight and Perspective Analysis. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021, 34, .	1.9	146
28	Nano-enhanced biolubricant in sustainable manufacturing: From processability to mechanisms. <i>Friction</i> , 2022, 10, 803-841.	3.4	144
29	Minimum quantity lubrication machining of aeronautical materials using carbon group nanolubricant: From mechanisms to application. <i>Chinese Journal of Aeronautics</i> , 2022, 35, 85-112.	2.8	138
30	Semiempirical heat flux model of hard-brittle bone material in ductile microgrinding. <i>Journal of Manufacturing Processes</i> , 2021, 71, 501-514.	2.8	137
31	Recent advances on improved optical, thermal, and radiative characteristics of plasmonic nanofluids: Academic insights and perspectives. <i>Solar Energy Materials and Solar Cells</i> , 2022, 236, 111504.	3.0	137
32	Energy and exergy analysis of a flat plate solar collector using different sizes of aluminium oxide based nanofluid. <i>Journal of Cleaner Production</i> , 2016, 133, 518-530.	4.6	134
33	Extreme pressure and antiwear additives for lubricant: academic insights and perspectives. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 1-27.	1.5	134
34	Thermophysical properties of Single Wall Carbon Nanotubes and its effect on exergy efficiency of a flat plate solar collector. <i>Solar Energy</i> , 2015, 115, 757-769.	2.9	129
35	Energy and exergy efficiency of a flat plate solar collector using pH treated Al ₂ O ₃ nanofluid. <i>Journal of Cleaner Production</i> , 2016, 112, 3915-3926.	4.6	126
36	Review of fractional-order electrical characterization of supercapacitors. <i>Journal of Power Sources</i> , 2018, 400, 457-467.	4.0	125

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37	A review on performance and environmental effects of conventional and nanofluid-based thermal photovoltaics. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 94, 302-316.	8.2	124
38	Influence of texture shape and arrangement on nanofluid minimum quantity lubrication turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 631-646.	1.5	123
39	Biological Stability of Water-Based Cutting Fluids: Progress and Application. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2022, 35, .	1.9	121
40	Analyzing entropy and thermal behavior of nanomaterial through solar collector involving new tapes. <i>International Communications in Heat and Mass Transfer</i> , 2021, 123, 105190.	2.9	119
41	Grindability of carbon fiber reinforced polymer using CNT biological lubricant. <i>Scientific Reports</i> , 2021, 11, 22535.	1.6	119
42	Characteristics of hydrogen production from steam gasification of plant-originated lignocellulosic biomass and its prospects in Vietnam. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4394-4425.	3.8	110
43	Advances in fabrication of ceramic corundum abrasives based on sol-gel process. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 1-17.	2.8	108
44	Optical properties of metal oxides based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014, 59, 46-54.	2.9	106
45	Heat transfer enhancement and life cycle analysis of a Shell-and-Tube Heat Exchanger using stable CuO/water nanofluid. <i>Sustainable Energy Technologies and Assessments</i> , 2019, 31, 306-317.	1.7	103
46	Valorization of spent coffee grounds into biofuels and value-added products: Pathway towards integrated bio-refinery. <i>Fuel</i> , 2019, 254, 115640.	3.4	100
47	Preparation, characterization, stability, and thermal conductivity of rGO-Fe ₃ O ₄ -TiO ₂ hybrid nanofluid: An experimental study. <i>Powder Technology</i> , 2020, 372, 235-245.	2.1	99
48	Synthesis, stability, density, viscosity of ethylene glycol-based ternary hybrid nanofluids: Experimental investigations and model-prediction using modern machine learning techniques. <i>Powder Technology</i> , 2022, 400, 117190.	2.1	99
49	Heat transfer, entropy generation, economic and environmental analyses of linear fresnel reflector using novel rGO-Co ₃ O ₄ hybrid nanofluids. <i>Renewable Energy</i> , 2021, 165, 420-437.	4.3	98
50	Cutting fluid corrosion inhibitors from inorganic to organic: Progress and applications. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1107-1134.	1.2	91
51	Stability, thermophysical and electrical properties of synthesized carbon nanofiber and reduced-graphene oxide-based nanofluids and their hybrid along with fuzzy modeling approach. <i>Powder Technology</i> , 2020, 364, 795-809.	2.1	87
52	A review on the application of hybrid nanofluids for parabolic trough collector: Recent progress and outlook. <i>Journal of Cleaner Production</i> , 2021, 292, 126031.	4.6	86
53	4S consideration (synthesis, sonication, surfactant, stability) for the thermal conductivity of CeO ₂ with MWCNT and water based hybrid nanofluid: An experimental assessment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125918.	2.3	85
54	Energy, exergy, economic and environmental (4E) analysis of a parabolic trough solar collector using MXene based silicone oil nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2022, 239, 111633.	3.0	85

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55	Up-to-date literature review on Solar PV systems: Technology progress, market status and R&D. <i>Journal of Cleaner Production</i> , 2022, 362, 132339.	4.6	78
56	A review study on the modeling of high-temperature solar thermal collector systems. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 112, 280-298.	8.2	77
57	Energy, exergy and economic analyses for the selection of working fluid and metal oxide nanofluids in a parabolic trough collector. <i>Solar Energy</i> , 2019, 187, 175-184.	2.9	73
58	Thermophysical and optical properties of SWCNTs nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 207-213.	2.9	71
59	Residual stress of grinding cemented carbide using MoS ₂ nano-lubricant. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 5671-5685.	1.5	71
60	Acid-functionalized carbon nanofibers for high stability, thermoelectrical and electrochemical properties of nanofluids. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 50-57.	5.0	70
61	Fuzzy modeling and optimization for experimental thermophysical properties of water and ethylene glycol mixture for Al ₂ O ₃ and TiO ₂ based nanofluids. <i>Powder Technology</i> , 2019, 353, 345-358.	2.1	70
62	New thermophysical properties of water based TiO ₂ nanofluid—The hysteresis phenomenon revisited. <i>International Communications in Heat and Mass Transfer</i> , 2014, 58, 85-95.	2.9	68
63	Performance assessment of linear Fresnel solar reflector using MWCNTs/DW nanofluids. <i>Renewable Energy</i> , 2020, 151, 43-56.	4.3	67
64	Thermophysical properties using ND/water nanofluids: An experimental study, ANFIS-based model and optimization. <i>Journal of Molecular Liquids</i> , 2021, 330, 115659.	2.3	67
65	Automatic defects detection in CFRP thermograms, using convolutional neural networks and transfer learning. <i>Infrared Physics and Technology</i> , 2019, 102, 103048.	1.3	65
66	Application of novel framework based on ensemble boosted regression trees and Gaussian process regression in modelling thermal performance of small-scale Organic Rankine Cycle (ORC) using hybrid nanofluid. <i>Journal of Cleaner Production</i> , 2022, 360, 132194.	4.6	64
67	Radiative properties of nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2013, 46, 74-84.	2.9	63
68	Concentrated photovoltaics as light harvesters: Outlook, recent progress, and challenges. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101199.	1.7	63
69	Recent advances on the applications of phase change materials for solar collectors, practical limitations, and challenges: A critical review. <i>Journal of Energy Storage</i> , 2022, 49, 104186.	3.9	63
70	Comparative analysis of liquid versus vapor-feed passive direct methanol fuel cells. <i>Renewable Energy</i> , 2019, 131, 563-584.	4.3	61
71	Optimizing density, dynamic viscosity, thermal conductivity and specific heat of a hybrid nanofluid obtained experimentally via ANFIS-based model and modern optimization. <i>Journal of Molecular Liquids</i> , 2021, 321, 114287.	2.3	61
72	Evaluating the Optical Properties of TiO ₂ Nanofluid for a Direct Absorption Solar Collector. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015, 67, 1010-1027.	1.2	60

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73	A numerical simulation of a linear Fresnel solar reflector directed to produce steam for the power plant. <i>Journal of Cleaner Production</i> , 2019, 231, 494-508.	4.6	58
74	Application based multi-objective performance optimization of a proton exchange membrane fuel cell. <i>Journal of Cleaner Production</i> , 2020, 252, 119567.	4.6	58
75	Thermophysical properties of water, water and ethylene glycol mixture-based nanodiamond+Fe ₃ O ₄ hybrid nanofluids: An experimental assessment and application of data-driven approaches. <i>Journal of Molecular Liquids</i> , 2022, 347, 117944.	2.3	58
76	Performance enhancement of a solar powered air conditioning system using passive techniques and SWCNT /R-407c nano refrigerant. <i>Case Studies in Thermal Engineering</i> , 2019, 16, 100565.	2.8	57
77	Nano-enhanced organic form stable PCMs for medium temperature solar thermal energy harvesting: Recent progresses, challenges, and opportunities. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112321.	8.2	57
78	Recent advancements in latent heat phase change materials and their applications for thermal energy storage and buildings: A state of the art review. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101646.	1.7	56
79	On the thermal and thermodynamic analysis of parabolic trough collector technology using industrial-grade MWCNT based nanofluid. <i>Renewable Energy</i> , 2020, 161, 1303-1317.	4.3	55
80	Experimental investigation of thermo-physical properties, heat transfer, pumping power, entropy generation, and exergy efficiency of nanodiamond+Fe ₃ O ₄ /60:40% water-ethylene glycol hybrid nanofluid flow in a tube. <i>Thermal Science and Engineering Progress</i> , 2021, 21, 100799.	1.3	55
81	Synthesis, stability, thermophysical properties and AI approach for predictive modelling of Fe ₃ O ₄ coated MWCNT hybrid nanofluids. <i>Journal of Molecular Liquids</i> , 2021, 340, 117291.	2.3	55
82	3S (Sonication, surfactant, stability) impact on the viscosity of hybrid nanofluid with different base fluids: An experimental study. <i>Journal of Molecular Liquids</i> , 2021, 329, 115455.	2.3	54
83	Spotlight on available optical properties and models of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 750-762.	8.2	52
84	On the specific heat capacity estimation of metal oxide-based nanofluid for energy perspective – A comprehensive assessment of data analysis techniques. <i>International Communications in Heat and Mass Transfer</i> , 2021, 123, 105217.	2.9	51
85	4E (Energy, Exergy, Economic, and Environment) examination of a small LFR solar water heater: An experimental and numerical study. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101277.	2.8	47
86	Predictions of UAE's renewable energy mix in 2030. <i>Renewable Energy</i> , 2018, 118, 779-789.	4.3	47
87	Exploring the specific heat capacity of water-based hybrid nanofluids for solar energy applications: A comparative evaluation of modern ensemble machine learning techniques. <i>Journal of Energy Storage</i> , 2022, 54, 105230.	3.9	47
88	Experimental and numerical investigation on the thermal performance of triple tube heat exchanger equipped with different inserts with WO ₃ /water nanofluid under turbulent condition. <i>International Journal of Thermal Sciences</i> , 2021, 164, 106861.	2.6	46
89	Multi-attribute optimization of sustainable aviation fuel production-process from microalgae source. <i>Fuel</i> , 2022, 324, 124759.	3.4	44
90	A comprehensive review analysis on advances of evacuated tube solar collector using nanofluids and PCM. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101417.	1.7	43

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91	Performance characterization of a solar-powered shell and tube heat exchanger utilizing MWCNTs/water-based nanofluids: An experimental, numerical, and artificial intelligence approach. Applied Thermal Engineering, 2022, 212, 118633.	3.0	43
92	Heat transfer analysis using zinc Ferrite/water (Hybrid) nanofluids in a circular tube: An experimental investigation and development of new correlations for thermophysical and heat transfer properties. Sustainable Energy Technologies and Assessments, 2020, 39, 100720.	1.7	42
93	Experimental investigation on thermo-hydraulic performance of water-based fly ash-Cu hybrid nanofluid flow in a pipe at various inlet fluid temperatures. International Communications in Heat and Mass Transfer, 2021, 124, 105238.	2.9	42
94	Performance evaluation of solar water heating system with heat pipe evacuated tubes provided with natural gas backup. Energy Reports, 2019, 5, 1432-1444.	2.5	41
95	Heat Transfer and Second Law Analysis of Ethylene Glycol-Based Ternary Hybrid Nanofluid Under Laminar Flow. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	41
96	Experimental analysis of novel ionic liquid-MXene hybrid nanofluid's energy storage properties: Model-prediction using modern ensemble machine learning methods. Journal of Energy Storage, 2022, 52, 104858.	3.9	40
97	Standalone photovoltaic system assessment for major cities of United Arab Emirates based on simulated results. Journal of Cleaner Production, 2017, 142, 2722-2729.	4.6	39
98	Properties, heat transfer, energy efficiency and environmental emissions analysis of flat plate solar collector using nanodiamond nanofluids. Diamond and Related Materials, 2020, 110, 108115.	1.8	39
99	A systematic parametric thermal analysis of nanofluid-based parabolic trough solar collectors. Sustainable Energy Technologies and Assessments, 2020, 39, 100714.	1.7	38
100	Comparative evaluation of Al-based intelligent GEP and ANFIS models in prediction of thermophysical properties of Fe ₃ O ₄ -coated MWCNT hybrid nanofluids for potential application in energy systems. International Journal of Energy Research, 2022, 46, 19242-19257.	2.2	38
101	Evaluating energy efficiency and economic effect of heat transfer in copper tube for small solar linear Fresnel reflector. Journal of Thermal Analysis and Calorimetry, 2021, 143, 4197-4215.	2.0	37
102	Estimating the density of hybrid nanofluids for thermal energy application: Application of non-parametric and evolutionary polynomial regression data-intelligent techniques. Measurement: Journal of the International Measurement Confederation, 2022, 189, 110524.	2.5	37
103	Investigation and optimization of a solar-assisted pumped thermal energy storage system with flat plate collectors. Energy Conversion and Management, 2021, 237, 114137.	4.4	36
104	A time variant investigation on optical properties of water based Al ₂ O ₃ nanofluid. International Communications in Heat and Mass Transfer, 2014, 50, 108-116.	2.9	35
105	Entropy generation and friction factor analysis of fly ash nanofluids flowing in a horizontal tube: Experimental and numerical study. International Journal of Thermal Sciences, 2021, 166, 106972.	2.6	34
106	Advances in the improvement of thermal-conductivity of phase change material-based lithium-ion battery thermal management systems: An updated review. Journal of Energy Storage, 2022, 53, 105195.	3.9	34
107	Combination of Co ₃ O ₄ deposited rGO hybrid nanofluids and longitudinal strip inserts: Thermal properties, heat transfer, friction factor, and thermal performance evaluations. Thermal Science and Engineering Progress, 2020, 20, 100695.	1.3	33
108	Performance and life cycle analysis of a novel portable solar thermoelectric refrigerator. Case Studies in Thermal Engineering, 2020, 19, 100599.	2.8	33

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109	Optimization of combustion, performance, and emission characteristics of a dual-fuel diesel engine powered with microalgae-based biodiesel/diesel blends and oxyhydrogen. <i>Fuel</i> , 2022, 326, 124987.	3.4	33
110	Energy, efficiency, economic impact, and heat transfer aspects of solar flat plate collector with Al ₂ O ₃ nanofluids and wire coil with core rod inserts. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 40, 100772.	1.7	32
111	Optical performance assessment of a small experimental prototype of linear Fresnel reflector. <i>Case Studies in Thermal Engineering</i> , 2019, 16, 100541.	2.8	31
112	Properties of water-based fly ash-copper hybrid nanofluid for solar energy applications: Application of RBF model. <i>Solar Energy Materials and Solar Cells</i> , 2022, 234, 111423.	3.0	31
113	An up-to-date review on evacuated tube solar collectors. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 145, 2873-2889.	2.0	30
114	Oriented square shaped pin-fin heat sink: Performance evaluation employing mixture based on ethylene glycol/water graphene oxide nanofluid. <i>Applied Thermal Engineering</i> , 2022, 206, 118085.	3.0	30
115	Exploring the Exhaust Emission and Efficiency of Algal Biodiesel Powered Compression Ignition Engine: Application of Box-Behnken and Desirability Based Multi-Objective Response Surface Methodology. <i>Energies</i> , 2021, 14, 5968.	1.6	29
116	Influence of longitudinal fin arrangement on the melting and solidification inside the triplex tube latent heat thermal storage system. <i>Journal of Energy Storage</i> , 2022, 46, 103778.	3.9	29
117	Experimental comparison of specific heat capacity of three different metal oxides with MWCNT/water-based hybrid nanofluids: proposing a new correlation. <i>Applied Nanoscience (Switzerland)</i> , 2023, 13, 189-199.	1.6	28
118	Influence of the geometrical parameters and particle concentration levels of hybrid nanofluid on the thermal performance of axial grooved heat pipe. <i>Thermal Science and Engineering Progress</i> , 2021, 21, 100762.	1.3	28
119	Experimental investigation on thermal conductivity of fly ash nanofluid and fly ash-Cu hybrid nanofluid: prediction and optimization via ANN and MGGP model. <i>Particulate Science and Technology</i> , 2022, 40, 182-195.	1.1	27
120	Recent advances on the role of nanomaterials for improving the performance of photovoltaic thermal systems: Trends, challenges and prospective. <i>Nano Energy</i> , 2022, 93, 106834.	8.2	26
121	Production of HMF and DMF biofuel from carbohydrates through catalytic pathways as a sustainable strategy for the future energy sector. <i>Fuel</i> , 2022, 324, 124474.	3.4	26
122	Copper Oxide Nanorod/Reduced Graphene Oxide Composites for NH ₃ Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 12977-12985.	2.4	25
123	Fabrication of shape-stabilized phase change materials based on waste plastics for energy storage. <i>Journal of Energy Storage</i> , 2022, 52, 104973.	3.9	25
124	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
125	Energy, Financial, and Environmental Investigation of a Direct Steam Production Power Plant Driven by Linear Fresnel Solar Reflectors. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021, 143, .	1.1	24
126	Thermophysical study of glycerol/choline chloride deep eutectic solvent based nanofluids. <i>Journal of Molecular Liquids</i> , 2022, 363, 119862.	2.3	20

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127	Experimental investigation on the stability and density of TiO_2 , Al_2O_3 , SiO_2 and $TiSiO_4$. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012002.	0.2	19
128	The effect of the baffle length on the natural convection in an enclosure filled with different nanofluids. Journal of Thermal Analysis and Calorimetry, 2020, , 1.	2.0	19
129	Performance evaluation and life cycle analysis of new solar thermal absorption air conditioning system. Energy Reports, 2020, 6, 673-679.	2.5	19
130	DC and AC Performance of Graphite Films Supercapacitors Prepared by Contact Glow Discharge Electrolysis. Journal of the Electrochemical Society, 2017, 164, A2539-A2546.	1.3	18
131	Fractional-order electric double-layer capacitors with tunable low-frequency impedance phase angle and energy storage capabilities. Applied Physics Letters, 2020, 116, .	1.5	18
132	On the performance of nanofluids in APR 1400 PLUS7 assembly: Neutronics. Annals of Nuclear Energy, 2020, 144, 107508.	0.9	17
133	Numerical study on the thermo-hydraulic performance analysis of fly ash nanofluid. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2101-2113.	2.0	17
134	Heat Transfer of rGO/CO ₃ O ₄ Hybrid Nanomaterial-Based Nanofluids and Twisted Tape Configurations in a Tube. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	17
135	Energy, exergy, exergoeconomic, and exergoenvironmental analysis of an innovative solar-geothermal-gas driven polygeneration system for combined power, hydrogen, hot water, and freshwater production. Sustainable Energy Technologies and Assessments, 2022, 51, 101861.	1.7	17
136	Recent advances on the evacuated tube solar collector scrutinizing latest innovations in thermal performance improvement involving economic and environmental analysis. Solar Energy Materials and Solar Cells, 2022, 241, 111733.	3.0	17
137	Experimental investigations on efficiency and instability of combustion process in a diesel engine fueled with ternary blends of hydrogen peroxide additive/biodiesel/diesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 5929-5950.	1.2	17
138	Central versus off-grid photovoltaic system, the optimum option for the domestic sector based on techno-economic-environmental assessment for United Arab Emirates. Sustainable Energy Technologies and Assessments, 2021, 43, 100944.	1.7	16
139	Impact of sonication durations on thermophysical properties, contact angle and surface tension of f-MWCNTs nanofluid for heat transfer. Journal of Molecular Liquids, 2022, 358, 119164.	2.3	16
140	Solar organic Rankine cycle and its poly-generation applications – A review. Sustainable Energy Technologies and Assessments, 2022, 49, 101732.	1.7	15
141	Exergy efficiency analysis of a flat plate solar collector using graphene based nanofluid. IOP Conference Series: Materials Science and Engineering, 2015, 92, 012015.	0.3	14
142	Improving combustion and emission characteristics of a biogas/biodiesel-powered dual-fuel diesel engine through trade-off analysis of operation parameters using response surface methodology. Sustainable Energy Technologies and Assessments, 2022, 53, 102455.	1.7	14
143	Influence of hot water blanching and saline immersion period on the thermal effusivity and the drying kinetics of hybrid solar drying of sweet potato chips. Solar Energy, 2022, 240, 176-192.	2.9	13
144	A general algorithm for the optimization of photovoltaic modules layout on irregular rooftop shapes. Journal of Cleaner Production, 2022, 365, 132774.	4.6	13

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145	ENERGY, ECONOMIC, ENVIRONMENTAL AND HEAT TRANSFER ANALYSIS OF A SOLAR FLAT-PLATE COLLECTOR WITH pH-TREATED Fe ₃ O ₄ /WATER NANOFLUID. International Journal of Energy for A Clean Environment, 2021, 22, 55-98.	0.6	12
146	Impact of reducing agents on the ammonia sensing performance of silver decorated reduced graphene oxide: Experiment and first principles calculations. Applied Surface Science, 2021, 558, 149886.	3.1	12
147	Global Challenges of Current Building-Integrated Solar Water Heating Technologies and Its Prospects: A Comprehensive Review. Energies, 2022, 15, 5125.	1.6	12
148	Rheological behaviour and the hysteresis phenomenon of Al ₂ O ₃ nanofluids. Materials Research Innovations, 2014, 18, S6-47-S6-50.	1.0	11
149	Thermophysical Properties of Metal Oxides Nanofluids. , 0, , .		11
150	Parametric study of geothermal parallel flow double-effect water-LiBr absorption chiller. , 2019, , .		11
151	Experimental investigation of thermal performance characteristics of sintered copper wick and grooved heat pipes: A comparative study. Journal of Central South University, 2021, 28, 3507-3520.	1.2	11
152	Using response surface methodology approach for optimizing performance and emission parameters of diesel engine powered with ternary blend of Solketal-biodiesel-diesel. Sustainable Energy Technologies and Assessments, 2022, 52, 102343.	1.7	11
153	Depth Estimation for a Mobile Platform Using Monocular Vision. Procedia Engineering, 2012, 41, 945-950.	1.2	10
154	An experimental study of the impact of cool roof on solar PV electricity generations on building rooftops in Sharjah, UAE. International Journal of Low-Carbon Technologies, 2019, 14, 267-276.	1.2	10
155	Solar-driven water pump with organic Rankine cycle for pressurized irrigation systems: A case study. Thermal Science and Engineering Progress, 2021, 25, 100960.	1.3	10
156	4E (energy, exergy, economic and environmental) investigation of LFR using MXene based silicone oil nanofluids. Sustainable Energy Technologies and Assessments, 2022, 49, 101715.	1.7	10
157	Numerical and experimental investigations of the electrical and thermal performances of a novel PV thermal system. Renewable Energy, 2022, 195, 990-1000.	4.3	10
158	ANFIS-Based Modelling and Optimal Operating Parameter Determination to Enhance Cocoa Beans Drying-Rate. IEEE Access, 2020, 8, 45964-45973.	2.6	9
159	Bandâ€Pass Filter and Relaxation Oscillator using Electric Doubleâ€Layer Capacitor. ChemElectroChem, 2018, 5, 3793-3798.	1.7	8
160	Nano-enhanced PCM for energy storage. , 2019, , .		8
161	Thermodynamic analysis of geothermal series flow double-effect water/LiBr absorption chiller. , 2019, , .		8
162	An integrated numerical study for using minimum quantity lubrication (MQL) when machining austempered ductile iron (ADI). International Journal on Interactive Design and Manufacturing, 2020, 14, 747-758.	1.3	8

#	ARTICLE	IF	CITATIONS
163	EFFECT OF CORE-ROD DIAMETER ON WIRE COIL INSERTS FOR HEAT TRANSFER AND FRICTION FACTOR OF HIGH-PRANDTL NUMBER MAGNETIC Fe ₃ O ₄ NANOFLUIDS IN A FULLY DEVELOPED LAMINAR FLOW. Heat Transfer Research, 2021, 52, 49-75.	0.9	8
164	HEAT TRANSFER, ENERGY, AND EXERGY EFFICIENCY ENHANCEMENT OF NANODIAMOND/WATER NANOFLUIDS CIRCULATE IN A FLAT PLATE SOLAR COLLECTOR. Journal of Enhanced Heat Transfer, 2021, 28, 57-99.	0.5	8
165	Recent advances in the prediction of thermophysical properties of nanofluids using artificial intelligence. , 2022, , 203-232.		7
166	Experimental investigations on modified thermosyphons using R134a/Al ₂ O ₃ and comparative machine learning analysis. Applied Thermal Engineering, 2022, 212, 118554.	3.0	7
167	Frequency-Dependent Effective Capacitance of Supercapacitors Using Electrospun Cobalt-Carbon Composite Nanofibers. Journal of the Electrochemical Society, 2019, 166, A2403-A2408.	1.3	6
168	Modulating the energy storage of supercapacitors by mixing close-to-ideal and far-from-ideal capacitive carbon nanofibers. Electrochimica Acta, 2019, 301, 465-471.	2.6	6
169	Physical and charge discharge behavior of facile PVDF-HFP nanocomposite microporous polymer electrolyte for lithium ion polymer batteries. Journal of Materials Science: Materials in Electronics, 2022, 33, 8594-8606.	1.1	6
170	Techno-economic performance assessment of central-grid wind turbines at major geographical locations of Pakistan. Journal of Energy Systems, 2017, 1, 43-55.	0.8	6
171	The Influence of Forced Convective Heat Transfer on Hybrid Nanofluid Flow in a Heat Exchanger with Elliptical Corrugated Tubes: Numerical Analyses and Optimization. Applied Sciences (Switzerland), 2022, 12, 2780.	1.3	5
172	Application of Response Surface Methodology based D-optimal Design for Modeling and Optimisation of Osmotic dehydration of Zucchini. Digital Chemical Engineering, 2022, 4, 100039.	1.2	5
173	Applicability of Alumina Nanofluid in Direct Absorption Solar Collectors. Applied Mechanics and Materials, 0, 699, 366-371.	0.2	4
174	Dataset on fuzzy logic based-modelling and optimization of thermophysical properties of nanofluid mixture. Data in Brief, 2019, 26, 104547.	0.5	4
175	Simulation of the pyrolysis process using blend of date seeds and coffee waste as biomass. , 2020, , .		4
176	Influence of dynamics viscosity on the water base CNTs nanofluid flow over a stretching surface. Cogent Engineering, 2020, 7, 1772945.	1.1	4
177	Theoretical analysis and correlations for predicting properties of hybrid nanofluids. , 2022, , 149-170.		4
178	Brief overview of the applications of hybrid nanofluids. , 2022, , 171-202.		4
179	A Taguchi Design of Experiment Approach to Pulse and Lock in Thermography, Applied to CFRP Composites. Journal of Nondestructive Evaluation, 2017, 36, 1.	1.1	3
180	Simulation of Anaerobic Co-Digestion Process for the Biogas Production using ASPEN PLUS. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
181	Review of Recent Progress in Wastewater Treatment Using Carbon Nanotubes. Current Analytical Chemistry, 2020, 17, 23-30.	0.6	3
182	Numerical and Experimental Investigation on Enhancing Thermal Conductivity of Paraffin Wax with Expanded Graphene in Battery Thermal Management System. International Journal of Environmental Research, 2022, 16, 1.	1.1	3
183	Synthesis, characterization, and measurement techniques for the thermophysical properties of nanofluids. , 2022, , 59-93.		3
184	Recent advances in machine learning research for nanofluid heat transfer in renewable energy. , 2022, , 203-228.		3
185	Cogeneration system driven by solar dish concentrators. Environmental Progress and Sustainable Energy, 2021, 40, e13644.	1.3	2
186	Path simulation using Reeds-Shepp method for a car-like vehicle. , 2014, , .		1
187	The Calibration and Sensitivity Aspects of a Self-Referencing Routine When Applied to Composites Inspection: Using a Pulsed Thermographic Setup. Journal of Nondestructive Evaluation, 2016, 35, 1.	1.1	1
188	Design and simulation of air-solar-finned reheating unit: An innovative design of a parabolic trough solar collector. Cogent Engineering, 2020, 7, 1793453.	1.1	1
189	Thermophysical, electrical, magnetic, and dielectric properties of hybrid nanofluids. , 2022, , 65-92.		1
190	Challenges and difficulties in developing hybrid nanofluids and way forward. , 2022, , 233-259.		1
191	Hydrothermal properties of hybrid nanofluids. , 2022, , 93-109.		1
192	Nanofluids as coolants. , 2022, , 713-735.		1
193	Automotive coolants. , 2022, , 773-792.		1
194	Experimental performance evaluation of closed loop mist/fog cooling system for photovoltaic module application. Energy Conversion and Management: X, 2022, 14, 100226.	0.9	1
195	Green Pedestrian and Cyclist way for Sustainable Campus: Case Study at Universiti Tun Hussein Onn Malaysia. Applied Mechanics and Materials, 0, 465-466, 280-284.	0.2	0
196	Energy and Economic Analysis of Flash Steam Geothermal Power Plants in Lebanon. , 2020, , .		0
197	Differential parameters uncertainty estimation via a PCA-based monte carlo sampling approach: IRT-4M fuel type as a case study. Journal of Nuclear Science and Technology, 2021, 58, 984-991.	0.7	0
198	Radiative transport of hybrid nanofluid. , 2022, , 131-147.		0

#	ARTICLE	IF	CITATIONS
199	Preparation and stability of hybrid nanofluids. , 2022, , 33-64.		0
200	Rheological behavior of hybrid nanofluids. , 2022, , 111-129.		0
201	Introduction to hybrid nanofluids. , 2022, , 1-32.		0