Hussein A Mohammed

List of Publications by Citations

159 papers	7,015 citations	45 h-index	79 g-index
171 ext. papers	8,120 ext. citations	4.8 avg, IF	6.46 L-index

#	Paper	IF	Citations
159	A review on applications and challenges of nanofluids. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1646-1668	16.2	1234
158	Heat transfer and fluid flow characteristics in microchannels heat exchanger using nanofluids: A review. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 1502-1512	16.2	200
157	Numerical simulation of heat transfer enhancement in wavy microchannel heat sink. *International Communications in Heat and Mass Transfer*, **2011**, 38, 63-68	5.8	189
156	A review on the performance of nanoparticles suspended with refrigerants and lubricating oils in refrigeration systems. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 310-323	16.2	183
155	A review on preparation methods and challenges of nanofluids. *International Communications in Heat and Mass Transfer*, **2014**, 54, 115-125	5.8	182
154	Numerical study of convective heat transfer of nanofluids: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 54, 1212-1239	16.2	179
153	The effect of geometrical parameters on heat transfer characteristics of microchannels heat sink with different shapes. *International Communications in Heat and Mass Transfer*, **2010**, 37, 1078-1086	5.8	167
152	Review of convection heat transfer and fluid flow in porous media with nanofluid. *Renewable and Sustainable Energy Reviews*, **2015**, 41, 715-734	16.2	164
151	Convective heat transfer and fluid flow study over a step using nanofluids: A review. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 2921-2939	16.2	133
150	Characteristics of heat transfer and fluid flow in microtube and microchannel using conventional fluids and nanofluids: A review. *Renewable and Sustainable Energy Reviews*, **2013**, 28, 848-880	16.2	130
149	Heat transfer enhancement of nanofluids in a double pipe heat exchanger with louvered strip inserts. *International Communications in Heat and Mass Transfer*, **2013**, 40, 36-46	5.8	121
148	An overview on heat transfer augmentation using vortex generators and nanofluids: Approaches and applications. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 5951-5993	16.2	121
147	Applications of variable speed drive (VSD) in electrical motors energy savings. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 543-550	16.2	113
146	Influence of channel shape on the thermal and hydraulic performance of microchannel heat sink. *International Communications in Heat and Mass Transfer*, **2011**, 38, 474-480	5.8	113
145	Effect of nanoparticle shapes on the heat transfer enhancement in a wavy channel with different phase shifts. *Journal of Molecular Liquids*, **2014**, 196, 32-42	6	98
144	A review on exergy analysis of biomass based fuels. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 1217-1222	16.2	98
143	Heat transfer in rectangular microchannels heat sink using nanofluids. *International Communications in Heat and Mass Transfer*, **2010**, 37, 1496-1503	5.8	97

142	Heat transfer enhancement and pressure drop for fin-and-tube compact heat exchangers with wavy rectangular winglet-type vortex generators. *International Communications in Heat and Mass Transfer*, **2014**, 54, 132-140	5.8	81
141	Laminar forced convection flow over a backward facing step using nanofluids. *International Communications in Heat and Mass Transfer*, **2010**, 37, 950-957	5.8	81
140	Forced, natural and mixed-convection heat transfer and fluid flow in annulus: A review. *International Communications in Heat and Mass Transfer*, **2015**, 62, 45-57	5.8	76
139	Thermal and hydraulic characteristics of nanofluid flow in a helically coiled tube heat exchanger. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1375-1383	5.8	75
138	Influence of nanofluids on parallel flow square microchannel heat exchanger performance. *International Communications in Heat and Mass Transfer*, **2011**, 38, 1-9	5.8	73
137	Thermal and hydraulic characteristics of turbulent nanofluids flow in a rib–groove channel. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1584-1594	5.8	72
136	The impact of various nanofluid types on triangular microchannels heat sink cooling performance. *International Communications in Heat and Mass Transfer*, **2011**, 38, 767-773	5.8	72
135	An end-use energy analysis in a Malaysian public hospital. *Energy*, **2010**, 35, 4780-4785	7.9	71
134	Influence of geometrical parameters and forced convective heat transfer in transversely corrugated circular tubes. *International Communications in Heat and Mass Transfer*, **2013**, 44, 116-126	5.8	70
133	Influence of geometrical parameters of hexagonal, circular, and rhombus microchannel heat sinks on the thermohydraulic characteristics. *International Communications in Heat and Mass Transfer*, **2014**, 52, 121-131	5.8	68
132	Numerical study of thermal enhancement in micro channel heat sink with secondary flow. *International Journal of Heat and Mass Transfer*, **2014**, 78, 216-223	4.9	67
131	Fluid flow and heat transfer characteristics of nanofluids in heat pipes: A review. *International Communications in Heat and Mass Transfer*, **2014**, 56, 50-62	5.8	65
130	Influence of various base nanofluids and substrate materials on heat transfer in trapezoidal microchannel heat sinks. *International Communications in Heat and Mass Transfer*, **2011**, 38, 194-201	5.8	60
129	Thermal–hydraulic performance of fin-and-oval tube compact heat exchangers with innovative design of corrugated fin patterns. *International Journal of Heat and Mass Transfer*, **2017**, 106, 573-592	4.9	57
128	Chillers energy consumption, energy savings and emission analysis in an institutional buildings. *Energy*, **2011**, 36, 5233-5238	7.9	57
127	The effect of nanofluids flow on mixed convection heat transfer over microscale backward-facing step. *International Journal of Heat and Mass Transfer*, **2012**, 55, 5870-5881	4.9	56
126	Design characteristics of corrugated trapezoidal plate heat exchangers using nanofluids. *Chemical Engineering and Processing: Process Intensification*, **2015**, 87, 88-103	3.7	55
125	Influence of nanofluids and rotation on helically coiled tube heat exchanger performance. *Thermochimica Acta*, **2013**, 564, 13-23	2.9	55

124	Experimental study of nanofluid flow and heat transfer over microscale backward- and forward-facing steps. *Experimental Thermal and Fluid Science*, **2015**, 65, 13-21	3	55
123	Boundary layer flow and heat transfer due to permeable stretching tube in the presence of heat source/sink utilizing nanofluids. *Applied Mathematics and Computation*, **2014**, 238, 149-162	2.7	53
122	Numerical investigation of trapezoidal grooved microchannel heat sink using nanofluids. *Thermochimica Acta*, **2013**, 573, 39-56	2.9	53
121	Heat transfer enhancement of nanofluids flow in microtube with constant heat flux. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1195-1204	5.8	52
120	The effect of step height of microscale backward-facing step on mixed convection nanofluid flow and heat transfer characteristics. *International Journal of Heat and Mass Transfer*, **2014**, 68, 554-566	4.9	50
119	Numerical and experimental investigation of heat transfer enhancement in a microtube using nanofluids. *International Communications in Heat and Mass Transfer*, **2014**, 59, 88-100	5.8	49
118	Heat transfer enhancement of laminar nanofluids flow in a triangular duct using vortex generator. *Superlattices and Microstructures*, **2012**, 52, 398-415	2.8	49
117	Enhancement heat transfer characteristics in the channel with Trapezoidal rib□groove using nanofluids. *Case Studies in Thermal Engineering*, **2015**, 5, 48-58	5.6	48
116	Thermal and hydraulic characteristics of nanofluid in a triangular grooved microchannel heat sink (TGMCHS). *Applied Mathematics and Computation*, **2014**, 246, 168-183	2.7	46
115	Thermal performance of optimized interrupted microchannel heat sink (IMCHS) using nanofluids. *International Communications in Heat and Mass Transfer*, **2012**, 39, 1595-1604	5.8	46
114	Viscous dissipation and radiation effects on MHD natural convection in a square enclosure filled with a porous medium. *Nuclear Engineering and Design*, **2014**, 266, 34-42	1.8	45
113	The effects of geometrical parameters of a corrugated channel with in out-of-phase arrangement. *International Communications in Heat and Mass Transfer*, **2013**, 40, 47-57	5.8	44
112	Computational Analysis of Three-Dimensional Unsteady Natural Convection and Entropy Generation in a Cubical Enclosure Filled with Water-Al2O3 Nanofluid. *Arabian Journal for Science and Engineering*, **2014**, 39, 7483-7493		43
111	Design and fabrication of coaxial surface junction thermocouples for transient heat transfer measurements. *International Communications in Heat and Mass Transfer*, **2008**, 35, 853-859	5.8	43
110	Mixed convection nanofluid flow over microscale forward-facing step □Effect of inclination and step heights. *International Communications in Heat and Mass Transfer*, **2016**, 78, 145-154	5.8	42
109	Heat transfer enhancement of turbulent nanofluid flow over various types of internally corrugated channels. *Powder Technology*, **2015**, 286, 332-341	5.2	41
108	Mixed convective nanofluid flow in a channel having backward-facing step with a baffle. *Powder Technology*, **2015**, 275, 329-343	5.2	41
107	A comprehensive review of fundamentals, preparation and applications of nanorefrigerants. *International Communications in Heat and Mass Transfer*, **2014**, 54, 81-95	5.8	41

106	Heat transfer and fluid flow over microscale backward and forward facing step: A review. *International Communications in Heat and Mass Transfer*, **2016**, 76, 237-244	5.8	40
105	Numerical investigation of heat transfer enhancement using various nanofluids in hexagonal microchannel heat sink. *Thermal Science and Engineering Progress*, **2018**, 5, 252-262	3.6	40
104	An overview of different distillation methods for small scale applications. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 4756-4764	16.2	39
103	Phase change materials (PCMs) for improving solar still productivity: a review. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 1585-1617	4.1	38
102	Numerical study of nanofluid forced convection flow in channels using different shaped transverse ribs. *International Communications in Heat and Mass Transfer*, **2015**, 67, 176-188	5.8	34
101	Fluid flow and heat transfer of nanofluids in microchannel heat sink with V-type inlet/outlet arrangement. *AEJ - Alexandria Engineering Journal*, **2017**, 56, 161-170	6.1	34
100	Experimental investigation of mixed convection heat transfer for thermally developing flow in a horizontal circular cylinder. *Applied Thermal Engineering*, **2007**, 27, 1522-1533	5.8	34
99	Influence of nanofluids on mixed convective heat transfer over a horizontal backward-facing step. *Heat Transfer - Asian Research*, **2011**, 40, 287-307	2.8	33
98	Numerical study of heat transfer enhancement of counter nanofluids flow in rectangular microchannel heat exchanger. *Superlattices and Microstructures*, **2011**, 50, 215-233	2.8	33
97	Heat transfer and nanofluid flow characteristics through a circular tube fitted with helical tape inserts. *International Communications in Heat and Mass Transfer*, **2016**, 71, 234-244	5.8	32
96	Numerical investigation of mixed convection heat transfer of nanofluids in a lid-driven trapezoidal cavity. *International Communications in Heat and Mass Transfer*, **2016**, 77, 195-205	5.8	31
95	Influence of nanofluid on turbulent forced convective flow in a channel with detached rib-arrays. *International Communications in Heat and Mass Transfer*, **2013**, 46, 97-105	5.8	31
94	A review on kiln system modeling. *Renewable and Sustainable Energy Reviews*, **2011**, 15, 2487-2500	16.2	31
93	Mixed convection heat transfer of nanofluids over backward facing step having a slotted baffle. *Applied Mathematics and Computation*, **2014**, 240, 368-386	2.7	30
92	Experimental study of forced and free convective heat transfer in the thermal entry region of horizontal concentric annuli. *International Communications in Heat and Mass Transfer*, **2010**, 37, 739-747	5.8	30
91	Two-phase forced convection of nanofluids flow in circular tubes using convergent and divergent conical rings inserts. *International Communications in Heat and Mass Transfer*, **2019**, 101, 10-20	5.8	28
90	Heat transfer and flow analysis of Al2O3-Water nanofluids in interrupted microchannel heat sink with ellipse and diamond ribs in the transverse microchambers. *Heat Transfer Engineering*, **2018**, 39, 1461-1469	1.7	27
89	Improving solar cooker performance using phase change materials: A comprehensive review. *Solar Energy*, **2020**, 207, 539-563	6.8	27

88	Heat transfer augmentation using nanofluids in an elliptic annulus with constant heat flux boundary condition. *Case Studies in Thermal Engineering*, **2014**, 4, 32-41	5.6	26
87	Mixed Convection Over a Backward-Facing Step in a Vertical Duct Using Nanofluids:Buoyancy Opposing Case. *Journal of Computational and Theoretical Nanoscience*, **2014**, 11, 860-872	0.3	26
86	Enhance heat transfer in the channel with V-shaped wavy lower plate using liquid nanofluids. *Case Studies in Thermal Engineering*, **2015**, 5, 13-23	5.6	25
85	Experimental and numerical study of nanofluid flow and heat transfer over microscale backward-facing step. *International Journal of Heat and Mass Transfer*, **2014**, 79, 858-867	4.9	24
84	Numerical investigation of fluid flow and heat transfer of nanofluids in microchannel with longitudinal fins. *Ain Shams Engineering Journal*, **2018**, 9, 3411-3418	4.4	24
83	Parametric design exploration of fin-and-oval tube compact heat exchangers performance with a new type of corrugated fin patterns. *International Journal of Thermal Sciences*, **2019**, 144, 173-190	4.1	23
82	Laminar mixed convection heat transfer in a vertical circular tube under buoyancy-assisted and opposed flows. *Energy Conversion and Management*, **2008**, 49, 2006-2015	10.6	22
81	Flameless combustion role in the mitigation of NOX emission: a review. *International Journal of Energy Research*, **2014**, 38, 827-846	4.5	20
80	Turbulent Nanofluid Flow Over Periodic Rib-Grooved Channels. *Engineering Applications of Computational Fluid Mechanics*, **2013**, 7, 369-381	4.5	20
79	Nanofluids for flat plate solar collectors: Fundamentals and applications. *Journal of Cleaner Production*, **2021**, 291, 125725	10.3	20
78	Boosting CO adsorption and selectivity in metal-organic frameworks of MIL-96(Al) second metal Ca coordination.. *RSC Advances*, **2020**, 10, 8130-8139	3.7	19
77	Numerical investigation on heat transfer and friction factor characteristics of laminar and turbulent flow in an elliptic annulus utilizing nanofluid. *International Communications in Heat and Mass Transfer*, **2015**, 66, 148-157	5.8	18
76	Heat transfer augmentation in concentric elliptic annular by ethylene glycol based nanofluids. *International Communications in Heat and Mass Transfer*, **2017**, 82, 29-39	5.8	17
75	Buoyancy-assisted mixed convective flow over backward-facing step in a vertical duct using nanofluids. *Thermophysics and Aeromechanics*, **2012**, 19, 33-52	0.9	17
74	Inclusion of nanoparticles in PCM for heat release unit. *Journal of Molecular Liquids*, **2020**, 313, 113544	6	15
73	A review of photovoltaic cells cooling techniques. *E3S Web of Conferences*, **2017**, 22, 00205	0.5	15
72	Turbulent heat transfer enhancement in a triangular duct using delta-winglet vortex generators. *Heat Transfer - Asian Research*, **2012**, 41, 43-62	2.8	15
71	Analysis of efficiency enhancement of flat plate solar collector using crystal nano-cellulose (CNC) nanofluids. *Sustainable Energy Technologies and Assessments*, **2021**, 45, 101049	4.7	15

70	Combined Convection Heat Transfer of Nanofluids Flow over Forward Facing Step in a Channel Having a Blockage. *Applied Mechanics and Materials*, **2013**, 388, 185-191	0.3	14
69	Combined convection heat transfer for thermally developing aiding flow in an inclined circular cylinder with constant heat flux. *Applied Thermal Engineering*, **2007**, 27, 1236-1247	5.8	14
68	Numerical Study of Periodic Magnetic Field Effect on 3D Natural Convection of MWCNT-Water/Nanofluid with Consideration of Aggregation. *Processes*, **2019**, 7, 957	2.9	14
67	Numerical study of assisting and opposing mixed convective nanofluid flows in an inclined circular pipe. *International Communications in Heat and Mass Transfer*, **2017**, 85, 81-91	5.8	13
66	Mixed Convection of Water-Based Nanofluids in a Rectangular Inclined Lid-Driven Cavity Partially Heated from Its Left Side Wall. *Journal of Computational and Theoretical Nanoscience*, **2013**, 10, 2222-2233	0.3	13
65	Dynamic Calibration and Performance of Reliable and Fast-Response Coaxial Temperature Probes in a Shock Tube Facility. *Experimental Heat Transfer*, **2011**, 24, 109-132	2.4	13
64	Combined natural and forced convection heat transfer for assisting thermally developing flow in a uniformly heated vertical circular cylinder. *International Communications in Heat and Mass Transfer*, **2007**, 34, 474-491	5.8	13
63	The transient response for different types of erodable surface thermocouples using finite element analysis. *Thermal Science*, **2007**, 11, 49-64	1.2	13
62	Three-Dimensional Numerical Investigation of Nanofluids Flow in Microtube with Different Values of Heat Flux. *Heat Transfer - Asian Research*, **2015**, 44, 599-619	2.8	12
61	Experimental and numerical study of nanofluid flow and heat transfer over microscale forward-facing step. *International Communications in Heat and Mass Transfer*, **2014**, 57, 319-329	5.8	12
60	Generality of Brownian motion velocity of two phase approach in interrupted microchannel heat sink. *International Communications in Heat and Mass Transfer*, **2013**, 49, 128-135	5.8	12
59	The effect of scratch technique on the thermal-product value of temperature sensors. *Thermophysics and Aeromechanics*, **2011**, 18, 51-64	0.9	12
58	Thermal and hydraulic characteristics of trapezoidal winglet across fin-and-tube heat exchanger (FTHE). *Applied Thermal Engineering*, **2019**, 149, 1379-1393	5.8	12
57	Thermal Performance of Hybrid-Inspired Coolant for Radiator Application. *Nanomaterials*, **2020**, 10,	5.4	11
56	Heat Transfer Enhancement by Using Different Types of Inserts. *Advances in Mechanical Engineering* , **2014**, 6, 250354	1.2	11
55	Thermal product of type-E fast response temperature sensors. *Journal of Thermal Science*, **2010**, 19, 364-371	1.3	11
54	The effects of different entrance sections lengths and heating on free and forced convective heat transfer inside a horizontal circular tube. *International Communications in Heat and Mass Transfer*, **2007**, 34, 769-784	5.8	11
53	Laminar air flow free convective heat transfer inside a vertical circular pipe with different inlet configurations. *Thermal Science*, **2007**, 11, 43-63	1.2	11

52	Energy efficiency of a flat-plate solar collector using thermally treated graphene-based nanofluids: Experimental study. *Nanomaterials and Nanotechnology*, **2020**, 10, 184798042096461	2.9	11
51	Transient electrohydrodynamic convective flow and heat transfer of MWCNT - Dielectric nanofluid in a heated enclosure. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2020**, 384, 126736	2.3	11
50	Numerical Study of Three Different Approaches to Simulate Nanofluids Flow and Heat Transfer in a Microtube. *Heat Transfer - Asian Research*, **2016**, 45, 46-58	2.8	10
49	Numerical Investigation of Heat Transfer from a Two-Dimensional Sudden Expansion Flow Using Nanofluids. *Numerical Heat Transfer; Part A: Applications*, **2012**, 61, 527-546	2.3	10
48	Fast response surface temperature sensor for hypersonic vehicles1. *Instruments and Experimental Techniques*, **2010**, 53, 153-159	0.5	10
47	Free and forced convection heat transfer in the thermal entry region for laminar flow inside a circular cylinder horizontally oriented. *Energy Conversion and Management*, **2007**, 48, 2185-2195	10.6	10
46	3D Magneto-Buoyancy-Thermocapillary Convection of CNT-Water Nanofluid in the Presence of a Magnetic Field. *Processes*, **2020**, 8, 258	2.9	9
45	Heat Transfer and Fluid Flow Characteristics in Helically Coiled Tube Heat Exchanger (HCTHE) Using Nanofluids: A Review. *Journal of Computational and Theoretical Nanoscience*, **2014**, 11, 911-927	0.3	9
44	Thermal and hydrodynamic performance analysis of circular microchannel heat exchanger utilizing nanofluids. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2012**, 22, 907-927	4.5	9
43	Combined convection nanofluid flow and heat transfer over microscale forward-facing step. *International Journal of Nanoparticles*, **2014**, 7, 1	0.4	8
42	Effects of diameter ratio of adiabatic circular cylinder and tilt angle on natural convection from a square open tilted cavity. *Heat Transfer - Asian Research*, **2012**, 41, 388-401	2.8	8
41	Effect of Vertical Baffle Installation on Forced Convective Heat Transfer in Channel Having a Backward Facing Step. *Applied Mechanics and Materials*, **2013**, 388, 169-175	0.3	8
40	MHD Heat Transfer in W-Shaped Inclined Cavity Containing a Porous Medium Saturated with Ag/Al2O3 Hybrid Nanofluid in the Presence of Uniform Heat Generation/Absorption. *Energies*, **2020** , 13, 3457	3.1	8
39	Experimental and Theoretical Analysis of Energy Efficiency in a Flat Plate Solar Collector Using Monolayer Graphene Nanofluids. *Sustainability*, **2021**, 13, 5416	3.6	8
38	3D Numerical Study of Conical and Fusiform Turbulators for Heat Transfer Improvement in a Double-Pipe Heat Exchanger. *International Journal of Heat and Mass Transfer*, **2021**, 170, 120995	4.9	8
37	CFD based investigations on the effects of blockage shapes on transient mixed convective nanofluid flow over a backward facing step. *Powder Technology*, **2019**, 346, 441-451	5.2	7
36	Influence of Various Geometrical Shapes on Mixed Convection Through an Open-Cell Aluminium Foam Filled with Nanofluid. *Journal of Computational and Theoretical Nanoscience*, **2014**, 11, 1275-1289	0.3	7
35	Numerical Investigation on Laminar Flow Due to Sudden Expansion Using Nanofluid. *Journal of Computational and Theoretical Nanoscience*, **2012**, 9, 2217-2227	0.3	7

34	Heat transfer by natural convection from a uniformly heated vertical circular pipe with different entry restriction configurations. *Energy Conversion and Management*, **2007**, 48, 2244-2253	10.6	7
33	Heat Transfer Enhancements Using Traditional Fluids and Nanofluids in Pipes with Different Orientations: A Review. *Journal of Nanofluids*, **2017**, 6, 987-1007	2.2	7
32	Thermohydraulic and thermodynamics performance of hybrid nanofluids based parabolic trough solar collector equipped with wavy promoters. *Renewable Energy*, **2022**, 182, 401-426	8.1	7
31	Numerical Study of Fluid Flow and Heat Transfer Enhancement of Nanofluids over Tube Bank. *Applied Mechanics and Materials*, **2013**, 388, 149-155	0.3	6
30	Determination of correlation functions of the oxide scale growth and the temperature increase. *Engineering Failure Analysis*, **2011**, 18, 2260-2271	3.2	6
29	Performance improvement of solar chimneys using phase change materials: A review. *Solar Energy*, **2021**, 228, 68-88	6.8	6
28	HEAT TRANSFER MEASUREMENTS OF MIXED CONVECTION FOR UPWARD AND DOWNWARD LAMINAR FLOWS INSIDE A VERTICAL CIRCULAR CYLINDER. *Experimental Heat Transfer*, **2008**, 21, 1-23	2.4	5
27	Effects of binary hybrid nanofluid on heat transfer and fluid flow in a triangular-corrugated channel: An experimental and numerical study. *Powder Technology*, **2021**,	5.2	5
26	Laminar Nanofluid Flow Over Periodic Two Dimensional Rectangular Baffled Channels. *Journal of Computational and Theoretical Nanoscience*, **2014**, 11, 1018-1030	0.3	4
25	Thermal product estimation method for aerodynamics experiments. *Journal of Engineering Physics and Thermophysics*, **2011**, 84, 849-859	0.6	4
24	The effect of different inlet geometries on laminar flow combined convection heat transfer inside a horizontal circular pipe. *Applied Thermal Engineering*, **2009**, 29, 581-590	5.8	4
23	Determination of the Effusivity of Different Scratched Coaxial Temperature Sensors Under Hypersonic Flow. *International Journal of Thermophysics*, **2010**, 31, 2305-2322	2.1	4
22	Free convective heat transfer from a constant heat flux vertical circular tube with different entrance restrictions length. *Energy Conversion and Management*, **2007**, 48, 2233-2243	10.6	4
21	Experimental and Numerical Investigation of Combined Convection Heat Transfer and Fluid Flow around Circular Cylinder through Rectangular and Trapezoidal Open-Cell Aluminum Foams. *Chemical Engineering Communications*, **2015**, 202, 674-693	2.2	3
20	Hybrid Nanocellulose-Copper (II) Oxide as Engine Oil Additives for Tribological Behavior Improvement. *Molecules*, **2020**, 25,	4.8	3
19	MHD natural convection inside an inclined trapezoidal porous enclosure with internal heat generation or absorption subjected to isoflux heating. *Heat Transfer - Asian Research*, **2012**, 41, 498-515	2.8	3
18	Thermally conductive polymer nanocomposites for filament-based additive manufacturing. *Journal of Materials Science*, **2022**, 57, 3993-4019	4.3	3
17	Numerical study of combined convection heat transfer for thermally developing upward flow in a vertical cylinder. *Thermal Science*, **2008**, 12, 89-102	1.2	3

16	MXene Based Palm Oil Methyl Ester as an Effective Heat Transfer Fluid. *Journal of Nano Research* ,68, 17-34	1	3
15	Turbulent forced convection flow of nanofluids over triple forward facing step. *World Journal of Engineering*, **2017**, 14, 263-278	1.8	2
14	The Effect of Base Fluid Type in Nanofluids for Heat Transfer Enhancement in Microtubes. *Applied Mechanics and Materials*, **2016**, 818, 12-22	0.3	2
13	Heat Transfer Enhancement Using Nanofluids in a Circular Tube Fitted with Inserts. *Journal of Computational and Theoretical Nanoscience*, **2014**, 11, 655-666	0.3	2
12	Effect of Base Fluid on Mixed Convection Nanofluid Flow Over Microscale Backward-Facing Step. *Journal of Computational and Theoretical Nanoscience*, **2015**, 12, 3076-3089	0.3	2
11	Assisting and Opposing Combined Convective Heat Transfer and Nanofluids Flows Over a Vertical Forward Facing Step. *Journal of Nanotechnology in Engineering and Medicine*, **2014**, 5,		2
10	Heat transfer enhancement for combined convection flow of nanofluids in a vertical rectangular duct considering radiation effects. *Heat Transfer - Asian Research*, **2011**, 40, 448-463	2.8	2
9	Graphene Nanoplatelets Suspended in Different Basefluids Based Solar Collector: An Experimental and Analytical Study. *Processes*, **2021**, 9, 302	2.9	2
8	ThermalHydraulic Performance in a Microchannel Heat Sink Equipped with Longitudinal Vortex Generators (LVGs) and Nanofluid. *Processes*, **2020**, 8, 231	2.9	1
7	Heat Transfer Enhancement in a Microchannel Heat Sink with Trapezoidal Cavities on the Side Walls. *Applied Mechanics and Materials*, **2016**, 819, 127-131	0.3	1
6	Influence of nanofluids on the efficiency of Flat-Plate Solar Collectors (FPSC). *E3S Web of Conferences*, **2017**, 22, 00123	0.5	1
5	Hydrothermal and energy analysis of flat plate solar collector using copper oxide nanomaterials with different morphologies: Economic performance. *Sustainable Energy Technologies and Assessments*, **2022**, 49, 101772	4.7	1
4	Numerical study of the thermal and hydraulic performances of heat sink made of wavy fins. *Mechanics and Mechanical Engineering*, **2019**, 23, 150-161	0.9	1
3	Effect of Inclination Angle on Three-Dimensional Combined Convective Heat Transfer of Nanofluids in Rectangular Channels. *Applied Mechanics and Materials*, **2013**, 388, 176-184	0.3	0
2	Heat Transfer Characteristics of Conventional Fluids and Nanofluids in Micro-Channels with Vortex Generators: A Review. *Energies*, **2022**, 15, 1245	3.1	0
1	Pulse Detonation Engine Research Development at High Speed Reacting Flow Laboratory - HiREF, Universiti Teknologi Malaysia. *Applied Mechanics and Materials*, **2013**, 388, 285-291	0.3	