Hafiz Muhammad Ali

List of Publications by Citations

284 papers	9,346 citations	51 h-index	85 g-index
304 ext. papers	13,246 ext. citations	4.4 avg, IF	7.84 L-index

#	Paper	IF	Citations
284	Thermal conductivity of hybrid nanofluids: A critical review. *International Journal of Heat and Mass Transfer*, **2018**, 126, 211-234	4.9	341
283	Recent advances in application of nanofluids in heat transfer devices: A critical review. *Renewable and Sustainable Energy Reviews*, **2019**, 103, 556-592	16.2	302
282	Recent advances on thermal conductivity enhancement of phase change materials for energy storage system: A review. *International Journal of Heat and Mass Transfer*, **2018**, 127, 838-856	4.9	301
281	A critical review on heat transfer augmentation of phase change materials embedded with porous materials/foams. *International Journal of Heat and Mass Transfer*, **2019**, 135, 649-673	4.9	236
280	Towards hybrid nanofluids: Preparation, thermophysical properties, applications, and challenges. *Journal of Molecular Liquids*, **2019**, 281, 598-633	6	227
279	Recent advancements in PV cooling and efficiency enhancement integrating phase change materials based systems □A comprehensive review. *Solar Energy*, **2020**, 197, 163-198	6.8	225
278	Experimental investigation of convective heat transfer augmentation for car radiator using ZnO□water nanofluids. *Energy*, **2015**, 84, 317-324	7.9	186
277	Thermal performance of phase change material (PCM) based pin-finned heat sinks for electronics devices: Effect of pin thickness and PCM volume fraction. *Applied Thermal Engineering*, **2017**, 112, 143-155	5.8	183
276	Applications of hybrid nanofluids in solar energy, practical limitations and challenges: A critical review. *Solar Energy*, **2019**, 183, 173-203	6.8	177
275	Experimental investigation of heat transfer and pressure drop in a straight minichannel heat sink using TiO2 nanofluid. *International Journal of Heat and Mass Transfer*, **2017**, 110, 248-256	4.9	155
274	Carbon nanotube nanofluid in enhancing the efficiency of evacuated tube solar collector. *Renewable Energy*, **2018**, 121, 36-44	8.1	142
273	Evaluation of solar collector designs with integrated latent heat thermal energy storage: A review. *Solar Energy*, **2018**, 166, 334-350	6.8	133
272	Copper foam/PCMs based heat sinks: An experimental study for electronic cooling systems. *International Journal of Heat and Mass Transfer*, **2018**, 127, 381-393	4.9	130
271	Thermal management of electronics devices with PCMs filled pin-fin heat sinks: A comparison. *International Journal of Heat and Mass Transfer*, **2018**, 117, 1199-1204	4.9	128
270	Graphene nanoplatelets nanofluids thermal and hydrodynamic performance on integral fin heat sink. *International Journal of Heat and Mass Transfer*, **2017**, 107, 995-1001	4.9	124
269	Experimental investigation of PCM based round pin-fin heat sinks for thermal management of electronics: Effect of pin-fin diameter. *International Journal of Heat and Mass Transfer*, **2018**, 117, 861-872	4.9	123
268	Preparation Techniques of TiO2 Nanofluids and Challenges: A Review. *Applied Sciences (Switzerland)*, **2018**, 8, 587	2.6	123

267	Thermal performance investigation of staggered and inline pin fin heat sinks using water based rutile and anatase TiO 2 nanofluids. *Energy Conversion and Management*, **2015**, 106, 793-803	10.6	123
266	Thermal management and uniform temperature regulation of photovoltaic modules using hybrid phase change materials-nanofluids system. *Renewable Energy*, **2020**, 145, 282-293	8.1	120
265	Effect of channel angle of pin-fin heat sink on heat transfer performance using water based graphene nanoplatelets nanofluids. *International Journal of Heat and Mass Transfer*, **2017**, 106, 465-472	4.9	119
264	Water cooled minichannel heat sinks for microprocessor cooling: Effect of fin spacing. *Applied Thermal Engineering*, **2014**, 64, 76-82	5.8	116
263	Surface morphology assessment of CFRP transverse grinding using CNT nanofluid minimum quantity lubrication. *Journal of Cleaner Production*, **2020**, 277, 123328	10.3	114
262	Thermal management of electronics: An experimental analysis of triangular, rectangular and circular pin-fin heat sinks for various PCMs. *International Journal of Heat and Mass Transfer*, **2018**, 123, 272-284	4.9	111
261	Vegetable oil-based nanofluid minimum quantity lubrication turning: Academic review and perspectives. *Journal of Manufacturing Processes*, **2020**, 59, 76-97	5	110
260	Experimental investigation of n-eicosane based circular pin-fin heat sinks for passive cooling of electronic devices. *International Journal of Heat and Mass Transfer*, **2017**, 112, 649-661	4.9	109
259	Nanoparticles enhanced phase change materials (NePCMs)-A recent review. *Applied Thermal Engineering*, **2020**, 176, 115305	5.8	108
258	Solar energy systems Potential of nanofluids. *Journal of Molecular Liquids*, **2019**, 289, 111049	6	106
257	Comparative performance assessment of solar dish assisted s-CO2 Brayton cycle using nanofluids. *Applied Thermal Engineering*, **2019**, 148, 295-306	5.8	100
256	Experimental passive electronics cooling: Parametric investigation of pin-fin geometries and efficient phase change materials. *International Journal of Heat and Mass Transfer*, **2017**, 115, 251-263	4.9	91
255	Nanofluids: Physical phenomena, applications in thermal systems and the environment effects- a critical review. *Journal of Cleaner Production*, **2021**, 320, 128573	10.3	88
254	Experimental investigation on paraffin wax integrated with copper foam based heat sinks for electronic components thermal cooling. *International Communications in Heat and Mass Transfer*, **2018**, 98, 155-162	5.8	86
253	An experimental study of enhanced heat sinks for thermal management using n-eicosane as phase change material. *Applied Thermal Engineering*, **2018**, 132, 52-66	5.8	79
252	Experimental investigation of TiO2 water nanofluid flow and heat transfer inside wavy mini-channel heat sinks. *Journal of Thermal Analysis and Calorimetry*, **2019**, 137, 1279-1294	4.1	79
251	Experimental thermal performance analysis of finned tube-phase change material based double pass solar air heater. *Case Studies in Thermal Engineering*, **2019**, 15, 100543	5.6	77
250	Energy and exergy analysis of fuel cells: A review. *Thermal Science and Engineering Progress*, **2019**, 9, 308-321	3.6	76

249	Applications of nanofluids in photovoltaic thermal systems: A review of recent advances. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 536, 122513	3.3	75
248	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. *Physics Reports*, **2021**, 946, 1-1	27.7	75
247	Configuration and Optimization of a Minichannel Using Water-Alumina Nanofluid by Non-Dominated Sorting Genetic Algorithm and Response Surface Method. *Nanomaterials*, **2020**, 10,	5.4	74
246	Viscosity of hybrid nanofluids: A critical review. *Thermal Science*, **2019**, 23, 1713-1754	1.2	73
245	Nanofluid: Potential evaluation in automotive radiator. *Journal of Molecular Liquids*, **2020**, 297, 112014	6	70
244	Air cooled heat sink geometries subjected to forced flow: A critical review. *International Journal of Heat and Mass Transfer*, **2019**, 130, 141-161	4.9	65
243	Milling Force Model for Aviation Aluminum Alloy: Academic Insight and Perspective Analysis. *Chinese Journal of Mechanical Engineering (English Edition)*, **2021**, 34,	2.5	65
242	Applications of combined/hybrid use of heat pipe and phase change materials in energy storage and cooling systems: A recent review. *Journal of Energy Storage*, **2019**, 26, 100986	7.8	63
241	Advances in fabrication of ceramic corundum abrasives based on sol□gel process. *Chinese Journal of Aeronautics*, **2021**, 34, 1-17	3.7	61
240	Performance analysis of hybrid nanofluid in a heat sink equipped with sharp and streamlined micro pin-fins. *Powder Technology*, **2019**, 355, 552-563	5.2	59
239	Airfoil shaped pin-fin heat sink: Potential evaluation of ferric oxide and titania nanofluids. *Energy Conversion and Management*, **2019**, 202, 112194	10.6	56
238	Experimental investigation of nucleate pool boiling heat transfer enhancement of TiO 2 -water based nanofluids. *Applied Thermal Engineering*, **2017**, 113, 1146-1151	5.8	54
237	Temperature of Grinding Carbide With Castor Oil-Based MoS2 Nanofluid Minimum Quantity Lubrication. *Journal of Thermal Science and Engineering Applications*, **2021**, 13,	1.9	54
236	Magnetohydrodynamic natural convection of hybrid nanofluid in a porous enclosure: numerical analysis of the entropy generation. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 1981-1992	4.1	53
235	Heat transfer enhancement of car radiator using aqua based magnesium oxide nanofluids. *Thermal Science*, **2015**, 19, 2039-2048	1.2	52
234	Cost effective cooling of photovoltaic modules to improve efficiency. *Case Studies in Thermal Engineering*, **2019**, 14, 100420	5.6	51
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232	Condensation heat transfer on pin-fin tubes: Effect of thermal conductivity and pin height. *Applied Thermal Engineering*, **2013**, 60, 465-471	5.8	47

231	Multiwalled Carbon Nanotube Nanofluid for Thermal Management of High Heat Generating Computer Processor. *Heat Transfer - Asian Research*, **2014**, 43, 653-666	2.8	47
230	Experimental investigations of the performance of a flat-plate solar collector using carbon and metal oxides based nanofluids. *Energy*, **2021**, 227, 120452	7.9	46
229	Internal convective heat transfer of nanofluids in different flow regimes: A comprehensive review. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 538, 122783	3.3	44
228	Convective Heat Transfer Coefficient Model Under Nanofluid Minimum Quantity Lubrication Coupled with Cryogenic Air Grinding Ti□Al□V. *International Journal of Precision Engineering and Manufacturing - Green Technology*, **2021**, 8, 1113-1135	3.8	44
227	An experimental study of PCM based finned and un-finned heat sinks for passive cooling of electronics. *Heat and Mass Transfer*, **2018**, 54, 3587-3598	2.2	43
226	Effect of Zinc Oxide Nano-Additives and Soybean Biodiesel at Varying Loads and Compression Ratios on VCR Diesel Engine Characteristics. *Symmetry*, **2020**, 12, 1042	2.7	42
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221	Comparison of Performance Measurements of Photovoltaic Modules during Winter Months in Taxila, Pakistan. *International Journal of Photoenergy*, **2014**, 2014, 1-8	2.1	39
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209	Performance improvement of photovoltaic modules via temperature homogeneity improvement. *Energy*, **2020**, 203, 117816	7.9	30
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172	Free convection condensation of steam on horizontal wire wrapped tubes: Effect of wire thermal conductivity, pitch and diameter. *Applied Thermal Engineering*, **2015**, 90, 207-214	5.8	21
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168	Upgrading of the Performance of an Air-to-Air Heat Exchanger Using Graphene/Water Nanofluid. *International Journal of Thermophysics*, **2021**, 42, 1	2.1	21
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156	Concentrated photovoltaics as light harvesters: Outlook, recent progress, and challenges. *Sustainable Energy Technologies and Assessments*, **2021**, 46, 101199	4.7	18
155	Thermo-Hydraulic Performance Analysis on the Effects of Truncated Twisted Tape Inserts in a Tube Heat Exchanger. *Symmetry*, **2020**, 12, 1652	2.7	17
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144	Heat Transfer Applications of TiO2 Nanofluids **2017**,		15
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136	Swimming of Gyrotactic Microorganisms in Unsteady Flow of Eyring Powell Nanofluid with Variable Thermal Features: Some Bio-technology Applications. *International Journal of Thermophysics*, **2020**, 41, 1	2.1	14
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133	Laminar forced convection heat transfer of nanofluids inside non-circular ducts: A review. *Powder Technology*, **2021**, 378, 808-830	5.2	14
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130	The effect of using connecting holes on heat transfer and entropy generation behaviors in a micro channels heat sink cooled with biological silver/water nanofluid. *International Communications in Heat and Mass Transfer*, **2021**, 123, 104929	5.8	13
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128	An experimental investigation of performance of a double pass solar air heater with thermal storage medium. *Thermal Science*, **2015**, 19, 1699-1708	1.2	12
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