

Arun Kumar Tiwari

List of Publications by Citations

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74
papers

3,121
citations

28
h-index

55
g-index

77
ext. papers

3,988
ext. citations

4.5
avg, IF

6.36
L-index

#	Paper	IF	Citations
74	Effects of Minimum Quantity Lubrication (MQL) in machining processes using conventional and nanofluid based cutting fluids: A comprehensive review. <i>Journal of Cleaner Production</i> , 2016 , 127, 1-18	10.3	267
73	Progress of nanofluid application in solar collectors: A review. <i>Energy Conversion and Management</i> , 2015 , 100, 324-346	10.6	218
72	Rheological behaviour of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 779-791	10.1	197
71	Experimental evaluation of flat plate solar collector using nanofluids. <i>Energy Conversion and Management</i> , 2017 , 134, 103-115	10.6	143
70	Performance evaluation of alumina-graphene hybrid nano-cutting fluid in hard turning. <i>Journal of Cleaner Production</i> , 2017 , 162, 830-845	10.3	128
69	Application of nanofluids in plate heat exchanger: A review. <i>Energy Conversion and Management</i> , 2015 , 105, 1017-1036	10.6	115
68	Performance comparison of the plate heat exchanger using different nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2013 , 49, 141-151	3	114
67	Progress of Nanofluid Application in Machining: A Review. <i>Materials and Manufacturing Processes</i> , 2015 , 30, 813-828	4.1	110
66	Heat transfer and pressure drop characteristics of CeO ₂ /water nanofluid in plate heat exchanger. <i>Applied Thermal Engineering</i> , 2013 , 57, 24-32	5.8	104
65	Novel uses of alumina/graphene hybrid nanoparticle additives for improved tribological properties of lubricant in turning operation. <i>Tribology International</i> , 2018 , 119, 99-111	4.9	104
64	Performance analysis of hybrid nanofluids in flat plate solar collector as an advanced working fluid. <i>Solar Energy</i> , 2018 , 167, 231-241	6.8	90
63	Heat transfer mechanisms in heat pipes using nanofluids A review. <i>Experimental Thermal and Fluid Science</i> , 2018 , 90, 84-100	3	87
62	Performance augmentation in flat plate solar collector using MgO/water nanofluid. <i>Energy Conversion and Management</i> , 2016 , 124, 607-617	10.6	82
61	Numerical investigation of heat transfer and fluid flow in plate heat exchanger using nanofluids. <i>International Journal of Thermal Sciences</i> , 2014 , 85, 93-103	4.1	79
60	Novel uses of alumina-MoS ₂ hybrid nanoparticle enriched cutting fluid in hard turning of AISI 304 steel. <i>Journal of Manufacturing Processes</i> , 2017 , 30, 467-482	5	77
59	Particle concentration levels of various nanofluids in plate heat exchanger for best performance. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 1110-1118	4.9	77
58	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. <i>Physics Reports</i> , 2021 , 946, 1-1	27.7	75

57	Heat transfer, entropy generation, economic and environmental analyses of linear fresnel reflector using novel rGO-Co3O4 hybrid nanofluids. <i>Renewable Energy</i> , 2021 , 165, 420-437	8.1	67
56	Characterization and experimental investigation of Al2O3 nanoparticle based cutting fluid in turning of AISI 1040 steel under minimum quantity lubrication (MQL). <i>Materials Today: Proceedings</i> , 2016 , 3, 1899-1906	1.4	64
55	Effect of chevron angle on heat transfer performance in plate heat exchanger using ZnO/water nanofluid. <i>Energy Conversion and Management</i> , 2016 , 118, 142-154	10.6	57
54	Preparation, characterization, stability, and thermal conductivity of rGO-Fe3O4-TiO2 hybrid nanofluid: An experimental study. <i>Powder Technology</i> , 2020 , 372, 235-245	5.2	56
53	Heat transfer enhancement with nanofluids in plate heat exchangers: A comprehensive review. <i>European Journal of Mechanics, B/Fluids</i> , 2020 , 81, 173-190	2.4	54
52	Effect of variable spacing on performance of plate heat exchanger using nanofluids. <i>Energy</i> , 2016 , 114, 1107-1119	7.9	53
51	Tribological Investigation of TiO2 Nanoparticle based Cutting Fluid in Machining under Minimum Quantity Lubrication (MQL). <i>Materials Today: Proceedings</i> , 2016 , 3, 2155-2162	1.4	48
50	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	10.3	47
49	4S consideration (synthesis, sonication, surfactant, stability) for the thermal conductivity of CeO2 with MWCNT and water based hybrid nanofluid: An experimental assessment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125918	5.1	37
48	Measurement of machining forces and surface roughness in turning of AISI 304 steel using alumina-MWCNT hybrid nanoparticles enriched cutting fluid. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 150, 107078	4.6	33
47	Improved Machining Performance with Nanoparticle Enriched Cutting Fluids under Minimum Quantity Lubrication (MQL) Technique: A Review. <i>Materials Today: Proceedings</i> , 2015 , 2, 3545-3551	1.4	29
46	Experimental Study of Thermal Performance of Nanofluid-Filled and Nanoparticles-Coated Mesh Wick Heat Pipes. <i>Journal of Heat Transfer</i> , 2018 , 140,	1.8	28
45	Mechanism of Nanoparticles Functioning and Effects in Machining Processes: A Review. <i>Materials Today: Proceedings</i> , 2015 , 2, 3539-3544	1.4	27
44	Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids. <i>Materials Today: Proceedings</i> , 2017 , 4, 8587-8596	1.4	27
43	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	6	25
42	Experimental and numerical investigation on the thermal performance of triple tube heat exchanger equipped with different inserts with WO3/water nanofluid under turbulent condition. <i>International Journal of Thermal Sciences</i> , 2021 , 164, 106861	4.1	25
41	Prediction of temperature distribution over cutting tool with alumina-MWCNT hybrid nanofluid using computational fluid dynamics (CFD) analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 427-439	3.2	23
40	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	5.6	23

39	Investigation into Performance of SiO ₂ Nanoparticle Based Cutting Fluid in Machining Process. <i>Materials Today: Proceedings</i> , 2017 , 4, 133-141	1.4	22
38	An evaluative observation on impact of optical properties of nanofluids in performance of photo-thermal concentrating systems. <i>Solar Energy</i> , 2018 , 176, 709-724	6.8	21
37	Current Trends in Electric Discharge Machining Using Micro and Nano Powder Materials- A Review. <i>Materials Today: Proceedings</i> , 2015 , 2, 3302-3307	1.4	20
36	Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants. <i>International Journal of Surface Science and Engineering</i> , 2018 , 12, 207	1	20
35	Characterization and performance of nanofluids in plate heat exchanger. <i>Materials Today: Proceedings</i> , 2017 , 4, 4070-4078	1.4	19
34	Viscosity of hybrid nanofluids: Measurement and comparison. <i>Journal of Mechanical Engineering and Sciences</i> , 2018 , 12, 3614-3623	2	17
33	Characterization of TiO ₂ , Al ₂ O ₃ and SiO ₂ Nanoparticle based Cutting Fluids. <i>Materials Today: Proceedings</i> , 2016 , 3, 1890-1898	1.4	16
32	Efficacy evaluation of oxide-MWCNT water hybrid nanofluids: An experimental and artificial neural network approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 620, 126562	5.1	16
31	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> , 2020 , 1	3.3	15
30	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	4.7	15
29	Application of Nanoparticles in Solar collectors: A Review. <i>Materials Today: Proceedings</i> , 2015 , 2, 3638-3647	1.4	14
28	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	3.6	13
27	Exergy analysis of hybrid nanofluids with optimum concentration in a plate heat exchanger. <i>Materials Research Express</i> , 2018 , 5, 065022	1.7	13
26	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	6.4	11
25	A review of thermo physical properties of nanofluids. <i>Materials Today: Proceedings</i> , 2019 , 18, 968-978	1.4	10
24	Numerical study of CeO ₂ /H ₂ O nanofluid application on thermal performance of heat pipe. <i>Materials Today: Proceedings</i> , 2019 , 18, 1006-1016	1.4	10
23	Combined energy and exergy analysis of a corrugated plate heat exchanger and experimental investigation. <i>International Journal of Exergy</i> , 2014 , 15, 395	1.2	9
22	An Investigation on Tool Flank Wear Using Alumina/MoS ₂ Hybrid Nanofluid in Turning Operation. <i>Lecture Notes in Mechanical Engineering</i> , 2019 , 213-219	0.4	8

21	EXPERIMENTAL INVESTIGATION OF THE THERMAL PERFORMANCE OF MESH WICK HEAT PIPE. <i>Heat Transfer Research</i> , 2018 , 49, 1793-1811	3.9	8
20	Characterization of Nanofluids as an advanced heat transporting medium for Energy Systems. <i>Materials Today: Proceedings</i> , 2017 , 4, 4095-4103	1.4	7
19	Discharging of PCM for ventilation system incorporating nanoparticles. <i>Journal of Molecular Liquids</i> , 2020 , 315, 113696	6	7
18	A COMPARATIVE STUDY OF THERMAL PERFORMANCE OF A HEAT PIPE USING WATER AND NANOFLUID, AND A NANOPARTICLE-COATED WICK HEAT PIPE USING WATER. <i>Heat Transfer Research</i> , 2019 , 50, 1767-1779	3.9	7
17	Solicitation of nanoparticles/fluids in solar thermal energy harvesting: A review. <i>Materials Today: Proceedings</i> , 2020 , 26, 2289-2295	1.4	6
16	Machining performance enhancement of powder mixed electric discharge machining using Green dielectric fluid. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	5
15	Application of novel framework based on ensemble boosted regression trees and Gaussian process regression in modelling thermal performance of small-scale organic rankine cycle using hybrid nanofluid. <i>Journal of Cleaner Production</i> , 2022 , 132194	10.3	4
14	Solar organic Rankine cycle and its poly-generation applications [A review]. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101732	4.7	3
13	Solar Power Development: A Root for Sustainable Development of India. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 691, 012084	0.4	3
12	Rheological Behaviour of Hybrid Nanofluids: A Review. <i>Materials Forming, Machining and Tribology</i> , 2020 , 77-94	0.5	2
11	Theoretical analysis and correlations for predicting properties of hybrid nanofluids 2022 , 149-170		1
10	4E (energy, exergy, economic and environmental) investigation of LFR using MXene based silicone oil nanofluids. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101715	4.7	1
9	Influence of nanoparticles and porous plates on discharging of ventilation unit. <i>Powder Technology</i> , 2020 , 375, 513-520	5.2	1
8	Analysis of Mechanical and Sliding Wear Performance of Hybrid AA7075-SiC/Gr/Cu Alloy Composites Fabricated by High Vacuum Stir Casting Process. <i>Journal of Bio- and Tribo-Corrosion</i> , 2022 , 8, 1	2.9	0
7	Thermal Performance Enhancement of Flat-Plate Solar Collector Using CeO ₂ Water Nanofluid. <i>Springer Proceedings in Energy</i> , 2020 , 109-118	0.2	0
6	Synthesis, characterization, and measurement techniques for the thermophysical properties of nanofluids 2022 , 59-93		0
5	Recent advances in machine learning research for nanofluid heat transfer in renewable energy 2022 , 203-228		0
4	Radiative transport of hybrid nanofluid 2022 , 131-147		

- 3 Study of a Water-Based Hybrid Solar Photovoltaic Thermal Collector. *Smart Innovation, Systems and Technologies*, **2020**, 519-527 0.5
- 2 Synthesis and Characterization of Nanocomposites for the Application in Hybrid Solar Cell. *Advances in Computational Intelligence and Robotics Book Series*, **2021**, 250-266 0.4
- 1 Nanofluids as coolants **2022**, 713-735