

Korada Viswanatha Sharma

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115
papers

4,190
citations

36
h-index

63
g-index

122
ext. papers

4,854
ext. citations

3.3
avg, IF

6.03
L-index

#	Paper	IF	Citations
115	Hybrid nanofluids preparation, thermal properties, heat transfer and friction factor [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 185-198	16.2	281
114	The enhancement of effective thermal conductivity and effective dynamic viscosity of nanofluids [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1046-1058	16.2	198
113	Turbulent heat transfer and friction factor of Al ₂ O ₃ Nanofluid in circular tube with twisted tape inserts. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1409-1416	4.9	191
112	Estimation of heat transfer coefficient and friction factor in the transition flow with low volume concentration of Al ₂ O ₃ nanofluid flowing in a circular tube and with twisted tape insert. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 503-507	5.8	181
111	Experimental investigation of forced convection heat transfer and friction factor in a tube with Fe ₃ O ₄ magnetic nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2012 , 37, 65-71	3	159
110	Experimental determination of turbulent forced convection heat transfer and friction factor with SiO ₂ nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2013 , 51, 103-111	3	154
109	Experimental investigation of thermal conductivity and dynamic viscosity on nanoparticle mixture ratios of TiO ₂ -SiO ₂ nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 1143-1152	4.9	151
108	Empirical and theoretical correlations on viscosity of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 25, 670-686	16.2	148
107	A review of forced convection heat transfer enhancement and hydrodynamic characteristics of a nanofluid. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 29, 734-743	16.2	141
106	A review of thermophysical properties of water based composite nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 66, 654-678	16.2	118
105	Study of viscosity and specific heat capacity characteristics of water-based Al ₂ O ₃ nanofluids at low particle concentrations. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 86-102	1.9	111
104	Comparison of convective heat transfer coefficient and friction factor of TiO ₂ nanofluid flow in a tube with twisted tape inserts. <i>International Journal of Thermal Sciences</i> , 2014 , 81, 84-93	4.1	99
103	Biowaste Sago Bark Based Catalyst Free Carbon Nanospheres: Waste to Wealth Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 2247-2253	8.3	94
102	Heat transfer enhancement using nanofluids in an automotive cooling system. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 53, 195-202	5.8	86
101	Experimental measurements of thermal conductivity and viscosity of ethylene glycol-based hybrid nanofluid with TiO ₂ -CuO/C inclusions. <i>Journal of Molecular Liquids</i> , 2017 , 246, 396-405	6	86
100	Heat transfer and friction factor of water based TiO ₂ and SiO ₂ nanofluids under turbulent flow in a tube. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 59, 30-38	5.8	82
99	Effect of full length twisted tape inserts on heat transfer and friction factor enhancement with Fe ₃ O ₄ magnetic nanofluid inside a plain tube: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2761-2768	4.9	76

98	Experimental investigation of thermal conductivity and electrical conductivity of BioGlycol/Water mixture based Al ₂ O ₃ nanofluid. <i>Applied Thermal Engineering</i> , 2016 , 102, 932-941	5.8	74
97	Effects of working temperature on thermo-physical properties and forced convection heat transfer of TiO ₂ nanofluids in water /Ethylene glycol mixture. <i>Applied Thermal Engineering</i> , 2016 , 106, 1190-1199	5.8	73
96	Properties of glycerol and ethylene glycol mixture based SiO ₂ -CuO/C hybrid nanofluid for enhanced solar energy transport. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 179, 118-128	6.4	72
95	Heat transfer enhancements of low volume concentration Al ₂ O ₃ nanofluid and with longitudinal strip inserts in a circular tube. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4280-4286	4.9	70
94	Heat transfer performance of TiO ₂ /SiO ₂ nanofluids in a tube with wire coil inserts. <i>Applied Thermal Engineering</i> , 2019 , 152, 275-286	5.8	69
93	Catalyst free silica templated porous carbon nanoparticles from bio-waste materials. <i>Chemical Communications</i> , 2014 , 50, 12702-5	5.8	66
92	Thermo-physical properties of Al ₂ O ₃ -SiO ₂ /PAG composite nanolubricant for refrigeration system. <i>International Journal of Refrigeration</i> , 2017 , 80, 1-10	3.8	64
91	Performance of Evacuated Tube Solar Collector using Water-Based Titanium Oxide Nanofluid. <i>Journal of Mechanical Engineering and Sciences</i> , 2012 , 3, 301-310	2	61
90	Convective condensation of vapor in the presence of a non-condensable gas of high concentration in laminar flow in a vertical pipe. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 6090-6101	4.9	59
89	Experimental investigation on heat transfer performance of TiO ₂ nanofluids in water/Ethylene glycol mixture. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 16-24	5.8	58
88	Numerical validation of experimental heat transfer coefficient with SiO ₂ nanofluid flowing in a tube with twisted tape inserts. <i>Applied Thermal Engineering</i> , 2014 , 73, 296-306	5.8	56
87	Tool life and wear mechanism when machining Hastelloy C-22HS. <i>Wear</i> , 2011 , 270, 258-268	3.5	54
86	Thermal conductivity enhancement of nanoparticles in distilled water. <i>International Journal of Nanoparticles</i> , 2008 , 1, 66	0.4	49
85	Force convection heat transfer of Al ₂ O ₃ nanofluids for different based ratio of water: Ethylene glycol mixture. <i>Applied Thermal Engineering</i> , 2017 , 112, 707-719	5.8	45
84	Heat Transfer Enhancement with Al ₂ O ₃ Nanofluids and Twisted Tapes in a Pipe for Solar Thermal Applications. <i>Procedia Engineering</i> , 2013 , 64, 1474-1484		43
83	Rheology and thermal conductivity of non-porous silica (SiO ₂) in viscous glycerol and ethylene glycol based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 88, 245-253	5.8	42
82	The Effect of Nanofluid Volume Concentration on Heat Transfer and Friction Factor inside a Horizontal Tube. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-12	3.2	42
81	Heat transfer augmentation of ethylene glycol: water nanofluids and applications /A review. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 75, 13-23	5.8	42

80	Experimental Measurements of Nanofluids Thermal Properties. <i>International Journal of Automotive and Mechanical Engineering</i> , 2013 , 7, 850-863	1.4	39
79	Heat transfer from a horizontal fin array by natural convection and radiation: a conjugate analysis. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 3379-3391	4.9	36
78	The effect of cross sectional area of tube on friction factor and heat transfer nanofluid turbulent flow. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 47, 49-55	5.8	35
77	Correlations for thermal conductivity and viscosity of water based nanofluids. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 36, 012029	0.4	35
76	Viscosity, electrical and thermal conductivities of ethylene and propylene glycol-based SiC nanofluids. <i>Journal of Molecular Liquids</i> , 2019 , 284, 780-792	6	30
75	Heat transfer augmentation of a car radiator using nanofluids. <i>Heat and Mass Transfer</i> , 2014 , 50, 1553-1561	5.6	30
74	Wear analysis when machining AISI 304 with ethylene glycol/TiO ₂ nanoparticle-based coolant. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 82, 327-340	3.2	27
73	A numerical approach in describing ionanofluids behavior in laminar and turbulent flow. <i>Continuum Mechanics and Thermodynamics</i> , 2018 , 30, 657-666	3.5	25
72	Use of aluminum oxide nanoparticles in wood composites to enhance the heat transfer during hot-pressing. <i>European Journal of Wood and Wood Products</i> , 2013 , 71, 193-198	2.1	23
71	Experimental determination of nanofluid specific heat with SiO ₂ nanoparticles in different base fluids 2017 ,		22
70	Influence of activated charcoal as filler on the properties of wood composites. <i>International Journal of Adhesion and Adhesives</i> , 2013 , 46, 34-39	3.4	22
69	Laminar Convective Heat Transfer and Friction Factor of Al ₂ O ₃ Nanofluid in Circular Tube Fitted with Twisted Tape Inserts. <i>International Journal of Automotive and Mechanical Engineering</i> , 2011 , 3, 265-278	1.4	22
68	Thermal and mechanical properties of urea-formaldehyde (UF) resin combined with multiwalled carbon nanotubes (MWCNT) as nanofiller and fiberboards prepared by UF-MWCNT. <i>Holzforschung</i> , 2015 , 69, 199-205	2	21
67	Catalyst-free synthesis of carbon nanospheres for potential biomedical applications: waste to wealth approach. <i>RSC Advances</i> , 2015 , 5, 24528-24533	3.7	20
66	Turbulent Forced Convection Heat Transfer of Nanofluids with Twisted Tape Insert in a Plain Tube. <i>Energy Procedia</i> , 2014 , 52, 296-307	2.3	19
65	Experimental investigation for enhancement of heat transfer from cooling of electronic components by circular air jet impingement. <i>Heat and Mass Transfer</i> , 2012 , 48, 1627-1635	2.2	18
64	A correlation to predict heat transfer coefficient in nucleate boiling on cylindrical heating elements. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 347-354	4.1	16
63	A Theoretical Study on Convective Condensation of Water Vapor From Humid Air in Turbulent Flow in a Vertical Duct. <i>Journal of Heat Transfer</i> , 2007 , 129, 1627-1637	1.8	16

62	Influence of Aluminum Oxide Nanoparticles on the Physical and Mechanical Properties of Wood Composites. <i>BioResources</i> , 2013 , 8,	1.3	16
61	Numerical simulation of nanofluids for improved cooling efficiency in a 3D copper microchannel heat sink (MCHS). <i>Physics and Chemistry of Liquids</i> , 2018 , 56, 311-331	1.5	15
60	Energetic and Exergetic Performance of a Solar Flat-Plate Collector Working With Cu Nanofluid. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018 , 140,	2.3	14
59	Application of nanomaterials in solar thermal energy storage. <i>Heat and Mass Transfer</i> , 2018 , 54, 1555-1577	2.2	14
58	Heat Transfer Enhancement with Nanofluids A Review. <i>Journal of Mechanical Engineering and Sciences</i> , 2013 , 4, 452-461	2	14
57	A correlation to evaluate critical heat flux in small diameter tubes under subcooled conditions of the coolant. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 42-51	4.9	14
56	Heat transfer enhancement with elliptical tube under turbulent flow TiO ₂ -water nanofluid. <i>Thermal Science</i> , 2016 , 20, 89-97	1.2	14
55	Experimental determination of thermophysical properties of Indonesian fly-ash nanofluid for heat transfer applications. <i>Particulate Science and Technology</i> , 2021 , 39, 597-606	2	14
54	Nanofluid Properties for Forced Convection Heat Transfer: An Overview. <i>Journal of Mechanical Engineering and Sciences</i> , 2013 , 4, 397-408	2	11
53	Thermophysical profile of SiC/CuO/C nanocomposite in base liquid ethylene glycol. <i>Powder Technology</i> , 2019 , 354, 540-551	5.2	9
52	Theoretical analysis of heat transfer and friction factor for turbulent flow of nanofluids through pipes. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 565-575	2.3	9
51	Optimization of processing parameters of medium density fiberboard using response surface methodology for multiwalled carbon nanotubes as a nanofiller. <i>European Journal of Wood and Wood Products</i> , 2017 , 75, 203-213	2.1	8
50	Experimental study on density and thermal conductivity properties of Indian coal fly ash water-based nanofluid. <i>International Journal of Ambient Energy</i> , 2020 , 1-6	2	8
49	Fouling and its effect on the thermal performance of heat exchanger tubes. <i>International Journal of Heat and Technology</i> , 2017 , 35, 509-519	2.2	8
48	Effect of ball milling on the thermal conductivity and viscosity of Indian coal fly ash nanofluid. <i>Heat Transfer</i> , 2020 , 49, 4475-4490	3.1	7
47	Thermophysical properties of fly ash/Cu hybrid nanofluid for heat transfer applications. <i>Heat Transfer</i> , 2020 , 49, 4491-4510	3.1	7
46	Application of High Conductive Nanoparticles to Enhance the Thermal and Mechanical Properties of Wood Composite. <i>Materials Today: Proceedings</i> , 2018 , 5, 3143-3149	1.4	7
45	Hot corrosion behavior of thermal spray coatings on superalloy in coal-fired boiler environment. <i>Journal of Materials Research</i> , 2015 , 30, 2829-2843	2.5	7

44	Experimental Investigation of Heat Transfer and Friction Factor Characteristics in a Circular Tube with Longitudinal Strip Inserts. <i>Journal of Enhanced Heat Transfer</i> , 2008 , 15, 325-333	1.7	7
43	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> , 1-14	2	7
42	New correlations for estimation of monthly average daily solar radiation on a horizontal surface using meteorological data. <i>International Journal of Ambient Energy</i> , 2013 , 34, 160-174	2	6
41	Experimental Study on Heat Transfer Coefficient and Friction Factor of Al ₂ O ₃ Nanofluid in A Packed Bed Column. <i>Journal of Mechanical Engineering and Sciences</i> , 2011 , 1, 1-15	2	6
40	An Experimental Study on Heat Transfer and Friction Factor of Al ₂ O ₃ Nanofluid. <i>Journal of Mechanical Engineering and Sciences</i> , 2011 , 1, 99-112	2	6
39	Experimental determination for viscosity of fly ash nanofluid and fly ash-Cu hybrid nanofluid: Prediction and optimization using artificial intelligent techniques. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-20	1.6	6
38	Considerations on the Thermophysical Properties of Nanofluids. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2017 , 33-70	0.4	5
37	Numerical investigation for turbulent heat transfer of TiO ₂ /BiO ₂ nanofluids with wire coil inserts. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019 , 75, 271-289	2.3	5
36	GO-TiO ₂ Nano Composites for Silicon PV Cell Application. <i>Materials Today: Proceedings</i> , 2015 , 2, 4557-4562	5	5
35	Stability and thermophysical properties of fly ash nanofluid for heat transfer applications. <i>Heat Transfer</i> , 2020 , 49, 4722-4737	3.1	5
34	Temperature Dependent Properties of Silicon Carbide Nanofluid in Binary Mixtures of Glycerol-Ethylene Glycol. <i>Procedia Engineering</i> , 2016 , 148, 774-778		5
33	Nanofluid heat transfer under mixed convection flow in a tube for solar thermal energy applications. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 9411-7	5.1	5
32	Convective Condensation of Vapor in Laminar Flow in a Vertical Parallel Plate Channel in the Presence of a High-Concentration Noncondensable Gas. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	5
31	Turbulent Film Condensation of Pure Vapors Flowing Normal to A Horizontal Condenser Tube - Constant Heat Flux at the Tube Wall. <i>International Journal of Automotive and Mechanical Engineering</i> , 2011 , 4, 455-470	1.4	5
30	Numerical modeling of a fuel droplet for the evaluation of ignition temperature considering transport properties. <i>Case Studies in Thermal Engineering</i> , 2017 , 10, 121-130	5.6	4
29	The role of nanomaterials in the enhancement of non-concentrating solar collectors technology. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018 , 49, 435-441	0.9	4
28	Investigation of thermal behaviour, pressure drop, and pumping power in a Cu nanofluid-filled solar flat-plate collector. <i>MATEC Web of Conferences</i> , 2017 , 131, 01003	0.3	4
27	Simulation study of turbulent convective heat transfer enhancement in heated tube flow using TiO ₂ -water nanofluid. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013 , 50, 012035	0.4	4

26	Correlation for Heat Transfer in Nucleate Boiling on Horizontal Cylindrical Surface. <i>Heat Transfer Engineering</i> , 2010 , 31, 449-457	1.7	4
25	Influence of Palm Methyl Ester (PME) as an Alternative Fuel in Multicylinder Diesel Engine. <i>Journal of Mechanical Engineering and Sciences</i> , 2012 , 3, 331-339	2	4
24	The potential of wind and solar energy in Malaysia east coast: preliminary study at Universiti Malaysia Pahang (UMP) 2011 ,		4
23	State of the Art of Techno-Economics of Nanofluid-Laden Flat-Plate Solar Collectors for Sustainable Accomplishment. <i>Sustainability</i> , 2020 , 12, 9119	3.6	4
22	Heat Transfer Enhancement with Nanofluids for Automotive Cooling. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2017 , 71-100	0.4	3
21	Heat transfer from a vertical fin array by laminar natural convection and radiation: a quasi-3D approach. <i>Heat Transfer - Asian Research</i> , 2011 , 40, 524-549	2.8	3
20	Experimental investigations on thermal conductivity of water and Al ₂ O ₃ nanofluids at low concentrations. <i>International Journal of Nanoparticles</i> , 2012 , 5, 300	0.4	3
19	Turbulent forced convection of Al ₂ O ₃ nanofluid in a circular tube with tape inserts at low volume concentration. <i>International Journal of Nano and Biomaterials</i> , 2009 , 2, 60	0.2	3
18	Laminar convective heat transfer of nanofluids in a circular tube under constant heat flux. <i>International Journal of Nanoparticles</i> , 2009 , 2, 314	0.4	3
17	Effect of base fluids on thermo-physical properties of SiO ₂ nanofluids and development of new correlations. <i>Mathematical Methods in the Applied Sciences</i> ,	2.3	3
16	Thermal Spray Coatings for Hot Corrosion Resistance. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2017 , 235-268	0.4	2
15	Experimental determination of viscosity of Water-Glycerine based Cu nano-fluids. <i>Materials Today: Proceedings</i> , 2019 , 19, 517-520	1.4	2
14	Influence of nanofluid properties on turbulent forced convection heat transfer in different base liquids. <i>Mathematical Methods in the Applied Sciences</i> , 2020 ,	2.3	2
13	Comparison of nanofluid heat transfer properties with theory using generalized property relations for EG-water mixture. <i>MATEC Web of Conferences</i> , 2017 , 131, 03004	0.3	1
12	Application of Natural Gas for Internal Combustion Engines 2012 ,		1
11	Performance study of an evaporator tube working under high heat fluxes. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 5027-5034	4.9	1
10	Laminar film boiling on a vertical fin. <i>Heat and Mass Transfer</i> , 1989 , 24, 19-23		1
9	Turbulent film boiling from a vertical non-isothermal surface. <i>Heat and Mass Transfer</i> , 1990 , 25, 93-99		1

8	Improvement in Material Properties of Thermal Energy Storage Medium with Nanostructured Materials. <i>Nanoscience and Nanotechnology - Asia</i> , 2017 , 7,	0.7	1
7	Fluid dynamic simulations of EG-W (ethylene glycol-water) mixtures to predict nanofluid heat transfer coefficients. <i>Environmental Technology and Innovation</i> , 2020 , 20, 101113	7	1
6	A decision-making approach for energy efficiency improvement in municipal water pumps during water scarcity scenario. <i>Energy Efficiency</i> , 2016 , 9, 141-151	3	
5	Nanofluids for Enhanced Solar Thermal Energy Conversion. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , 2017 , 115-148	0.4	
4	Natural Convection-Radiation from a Vertical Base-Fin Array with Emissivity Determination. <i>MATEC Web of Conferences</i> , 2014 , 13, 02018	0.3	
3	A Comparison Study on Fuel Properties of Pretreated Pongamia and Jatropha Methyl Esters for C.I. Engine Usage. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2011 , 34, 316-323	1.6	
2	Oxygen stripping in deaerator feed water: condensation on spray droplets. <i>Heat and Mass Transfer</i> , 2010 , 46, 665-673	2.2	
1	LAMINAR FILM BOILING ON A VERTICAL SURFACE WITH THERMAL LEAKAGE AT ITS ENDS. <i>Chemical Engineering Communications</i> , 1987 , 61, 169-179	2.2	