Pawan Kumar Singh

List of Publications by Citations

35 papers	1,670 citations	13 h-index	36 g-index
36 ext. papers	1,919 ext. citations	3.3 avg, IF	4.68 L-index

#	Paper	IF	Citations
35	A benchmark study on the thermal conductivity of nanofluids. *Journal of Applied Physics*, **2009**, 106, 094312	2.5	766
34	Entropy generation due to flow and heat transfer in nanofluids. *International Journal of Heat and Mass Transfer*, **2010**, 53, 4757-4767	4.9	166
33	Thermal conductivity enhancement of nanofluids containing graphene nanosheets. *Journal of Applied Physics*, **2011**, 110, 084302	2.5	151
32	Electrical conductivity of ceramic and metallic nanofluids. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 417, 39-46	5.1	103
31	Fluid flow and heat transfer investigations on enhanced microchannel heat sink using oblique fins with parametric study. *International Journal of Heat and Mass Transfer*, **2015**, 81, 325-336	4.9	102
30	Experimental and numerical investigation into the hydrodynamics of nanofluids in microchannels. *Experimental Thermal and Fluid Science*, **2012**, 42, 174-186	3	56
29	Investigation of fluid flow and heat transfer in wavy micro-channels with alternating secondary branches. *International Journal of Heat and Mass Transfer*, **2016**, 101, 1316-1330	4.9	53
28	A pump-free microfluidic 3D perfusion platform for the efficient differentiation of human hepatocyte-like cells. *Biotechnology and Bioengineering*, **2017**, 114, 2360-2370	4.9	44
27	Experimental and Numerical Investigation Into the Heat Transfer Study of Nanofluids in Microchannel. *Journal of Heat Transfer*, **2011**, 133,	1.8	30
26	Effects of flow inlet angle on flow maldistribution and thermal performance of water cooled mini-channel heat sink. *International Journal of Thermal Sciences*, **2019**, 138, 504-511	4.1	27
25	Study of thermal and hydraulic performance of air cooled minichannel heatsink with novel geometries. *International Communications in Heat and Mass Transfer*, **2019**, 103, 31-42	5.8	22
24	A novel approach to manage temperature non-uniformity in minichannel heat sink by using intentional flow maldistribution. *Applied Thermal Engineering*, **2019**, 163, 114403	5.8	14
23	H2 refueling assessment of composite storage tank for fuel cell vehicle. *International Journal of Hydrogen Energy*, **2019**, 44, 23699-23707	6.7	13
22	Thermofluidic characteristic of a nanofluid-cooled oblique fin heat sink: An experimental and numerical investigation. *International Journal of Thermal Sciences*, **2022**, 171, 107214	4.1	11
21	Experimental inquisition of heat pipe: performance evaluation for different fluids. *Experimental Heat Transfer*, **2020**, 33, 668-682	2.4	10
20	A unique multilayer perceptron model (ANN) for different oxide/EG nanofluid viscosity from the experimental study. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 549, 124030	3.3	10
19	Investigations on the Influence of Flow Migration on Flow and Heat Transfer in Oblique Fin Microchannel Array. *Journal of Heat Transfer*, **2016**, 138,	1.8	10

18	Investigating the effect of suspensions nanostructure on the thermophysical properties of nanofluids. *Journal of Applied Physics*, **2012**, 112, 114315	2.5	9
17	Influence of secondary pass location on thermo-fluidic characteristic on the novel air-cooled branched wavy minichannel heat sink: A comprehensive numerical and experimental analysis. *Applied Thermal Engineering*, **2021**, 182, 115994	5.8	9
16	Effect of temperature on turbulent and laminar flow efficacy analysis of nanofluids. *Journal of Applied Physics*, **2012**, 111, 064319	2.5	7
15	Rheological characteristics of CeO2, Al2O3 and their hybrid mixture in ethylene glycol base fluid in the wide range of temperature and concentration. *Journal of Thermal Analysis and Calorimetry*, **2021**, 143, 1003-1019	4.1	7
14	An Experimental Study of Heat Pipe Performance Using Nanofluids. *International Journal of Green Energy*, **2015**, 12, 225-229	3	6
13	Combined effects of wall slip and nanofluid on interfacial transport from a thin-film evaporating meniscus in a microfluidic channel. *Microfluidics and Nanofluidics*, **2020**, 24, 1	2.8	6
12	Numerical investigation of thermal and hydraulic performance in novel oblique geometry using nanofluid. *Numerical Heat Transfer; Part A: Applications*, **2019**, 76, 533-551	2.3	6
11	Thermofluidic analysis of Al2O3-water nanofluid cooled branched wavy heat sink. *Applied Thermal Engineering*, **2022**, 201, 117787	5.8	5
10	Heat Transfer Enhancement in Oblique Finned Channel. *Lecture Notes in Mechanical Engineering*, **2019**, 157-167	0.4	4
9	Numerical analysis of an evaporating thin film region: Enticing influence of nanofluid. *Numerical Heat Transfer; Part A: Applications*, **2019**, 75, 56-70	2.3	4
8	Employing ANN Model for Prediction of Thermal Conductivity of CNT nanofluids **2020**,		3
7	Experimental investigation on rheology property of MWCNT-Al2O3/water hybrid nanofluid **2018**,		3
6	NUMERICAL INVESTIGATION OF FLOW AND HEAT TRANSFER OF NANOFLUIDS IN A WAVY MICROCHANNEL. *International Journal of Energy for A Clean Environment*, **2018**, 19, 19-35	1.5	3
5	Decisive influence of nanofluid on thin evaporating meniscus **2018**,		2
4	Scaling Analysis of Nanofluid Flowing Inside a Circular Micro Channel **2019**,		2
3	The insight flow characteristics of concentrated MWCNT in water base fluid: experimental study and ANN modelling. *Heat and Mass Transfer*, **2021**, 57, 1829	2.2	2
2	Density variation in nanofluids as a function of concentration and temperature. *Materials Today: Proceedings*, **2021**, 46, 6576-6580	1.4	2
1	Experimental Investigation on Viscosity of the Nanofluids With Different Parameters. *SSRN Electronic Journal*, **2017**,	1	1