Basant S Sikarwar

List of Publications by Year
in descending order

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38	507	777949 13	799663 21
papers	citations	h-index	g-index

40	40	40	462
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Super-Hydrophobic Nanostructured Silica Coating on Aluminum Substrate for Moist Air Condensation. Journal of Materials Engineering and Performance, 2022, 31, 1266-1276.	1.2	7
2	CFD modeling of slurry flow erosion wear rate through mitre pipe bend. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 2256-2267.	1.1	2
3	Fabrication and analysis of hydrophobic mesh-metallic surface for moist air condensation. Advances in Materials and Processing Technologies, 2022, 8, 3950-3961.	0.8	1
4	Moist air condensation on teflon coated copper helical coil. Materials Today: Proceedings, 2021, 38, 397-401.	0.9	2
5	Comparative study of rotary-EDM, gas assisted-EDM, and gas assisted powder mixed-EDM of the hybrid metal matrix composite. Advances in Materials and Processing Technologies, 2021, 7, 27-41.	0.8	16
6	An experimental study on the flight time of quadcopter using solar energy. Materials Today: Proceedings, 2021, 38, 269-273.	0.9	0
7	Flow and thermal field in sessile droplet evaporation at various environmental conditions. Heat Transfer, 2021, 50, 4535-4551.	1.7	2
8	Solar-Based Atmospheric Water Generation Device. Lecture Notes in Mechanical Engineering, 2021, , 11-18.	0.3	1
9	A correlation of metallic surface roughness with its hydrophobicity for dropwise condensation. Materials Today: Proceedings, 2020, 21, 1446-1452.	0.9	8
10	Experimental investigation and effects of process parameters on EDM of Al7075/SiC composite reinforced with magnesium particles. Materials Today: Proceedings, 2020, 21, 1496-1501.	0.9	13
11	Dropwise condensation from moist air over a hydrophobic metallic substrate. Applied Thermal Engineering, 2020, 181, 115733.	3.0	30
12	Self Assembly of Super-hydrophobic Nanotextured Methyl Functionalized Silica on Copper and Aluminium Surfaces for Moist Air Condensation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 605, 125379.	2.3	17
13	Condensation of Moist Air on Mesh-like Surfaces. Asian Journal of Water, Environment and Pollution, 2020, 17, 65-72.	0.4	2
14	Surface tension measurement of normal human blood samples by pendant drop method. Journal of Medical Engineering and Technology, 2020, 44, 227-236.	0.8	21
15	Numerical simulation and comparative analysis of pressure drop estimation in horizontal and vertical slurry pipeline. Journal of Mechanical Engineering and Sciences, 2020, 14, 6610-6624.	0.3	4
16	Microfluidic system for screening disease based on physical properties of blood. BioImpacts, 2020, 10, 141-150.	0.7	3
17	Design and Simulation of Isolation Room for a Hospital. Lecture Notes in Mechanical Engineering, 2019, , 75-93.	0.3	14
18	Modeling of Sessile Droplet Evaporation on Engineered Surfaces. Journal of Thermal Science and Engineering Applications, 2019, 11, .	0.8	8

#	Article	IF	Citations
19	Flow and heat transfer of fluid in a pulsating heat pipe. Journal of Physics: Conference Series, 2019, 1369, 012019.	0.3	1
20	Moist Air Condensation on Inclined Hydrophobic Metallic Surfaces: Simulation & Experiments. Journal of Physics: Conference Series, 2019, 1369, 012021.	0.3	3
21	Modeling of heat transfer through a liquid droplet. Heat and Mass Transfer, 2019, 55, 1371-1385.	1.2	17
22	Tailoring the hydrophobicity of copper surface with ion beam irradiation. Radiation Effects and Defects in Solids, 2019, 174, 307-319.	0.4	12
23	ASSESSMENT OF RHEOLOGICAL PROPERTIES OF BLOOD AS A FUNCTION OF HEALTH STATUS: A NOVEL POINT OF CARE DEVICE FOR POPULATION BASED SCREENING. , 2019, , .		1
24	Modelling of Blood Flow in Stenosed Arteries. Procedia Computer Science, 2017, 115, 821-830.	1.2	24
25	Irradiation effect of low-energy ion on polyurethane nanocoating containing metal oxide nanoparticles. Radiation Effects and Defects in Solids, 2017, 172, 964-974.	0.4	5
26	Atomistic modeling of dropwise condensation. AIP Conference Proceedings, 2016, , .	0.3	1
27	Automatic disease screening method using image processing for dried blood microfluidic drop stain pattern recognition. Journal of Medical Engineering and Technology, 2016, 40, 245-254.	0.8	12
28	Blood rheology in shear and uniaxial elongation. Rheologica Acta, 2016, 55, 901-908.	1.1	31
29	Automatic Pattern Recognition for Detection of Disease from Blood Drop Stain Obtained with Microfluidic Device. Advances in Intelligent Systems and Computing, 2016, , 655-667.	0.5	11
30	DROPWISE CONDENSATION OF METAL VAPORS UNDERNEATH INCLINED SUBSTRATES. Interfacial Phenomena and Heat Transfer, 2015, 3, 85-113.	0.3	3
31	Mathematical modelling of dropwise condensation on textured surfaces. Sadhana - Academy Proceedings in Engineering Sciences, 2013, 38, 1135-1171.	0.8	34
32	Simulation of flow and heat transfer in a liquid drop sliding underneath a hydrophobic surface. International Journal of Heat and Mass Transfer, 2013, 57, 786-811.	2.5	31
33	Coalescence of pendant droplets on an inclined super-hydrophobic substrate. , 2013, , .		2
34	Experimental and Simulation Study on Motion of an Isolated Liquid Plug Inside a Dry Circular Capillary. , 2013, , .		1
35	EFFECT OF DROP SHAPE ON HEAT TRANSFER DURING DROPWISE CONDENSATION UNDERNEATH INCLINED SURFACES. Interfacial Phenomena and Heat Transfer, 2013, 1, 339-356.	0.3	18
36	Dropwise Condensation Studies on Multiple Scales. Heat Transfer Engineering, 2012, 33, 301-341.	1.2	69

#	Article	IF	Citations
37	Dropwise Condensation Underneath Chemically Textured Surfaces: Simulation and Experiments. Journal of Heat Transfer, 2011, 133, .	1.2	75
38	Flow and Thermal Fields in a Pendant Droplet Moving on Lyophobic Surface. , 2010, , .		1