Samarshi Chakraborty

List of Publications by Year
in descending order

24 papers	1,149 citations	567281 15 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	941 citing authors

#	Article	IF	Citations
1	Stability of nanofluid: A review. Applied Thermal Engineering, 2020, 174, 115259.	6.0	317
2	Thermal reduction of graphene oxide: How temperature influences purity. Journal of Materials Research, 2018, 33, 4113-4122.	2.6	185
3	Thermophysical properties using ND/water nanofluids: An experimental study, ANFIS-based model and optimization. Journal of Molecular Liquids, 2021, 330, 115659.	4.9	67
4	Experimental investigation on the effect of dispersant addition on thermal and rheological characteristics of TiO2 nanofluid. Powder Technology, 2017, 307, 10-24.	4.2	64
5	Synthesis of Cuâ€"Al layered double hydroxide nanofluid and characterization of its thermal properties. Applied Clay Science, 2015, 107, 98-108.	5.2	63
6	Thermo-physical properties of Cu-Zn-Al LDH nanofluid and its application in spray cooling. Applied Thermal Engineering, 2018, 141, 339-351.	6.0	54
7	Heat transfer enhancement using air-atomized spray cooling with waterâ€"Al2O3 nanofluid. International Journal of Thermal Sciences, 2015, 96, 85-93.	4.9	53
8	Effect of surfactant on thermo-physical properties and spray cooling heat transfer performance of Cu-Zn-Al LDH nanofluid. Applied Clay Science, 2019, 168, 43-55.	5.2	46
9	Influence of organically modified NiAl layered double hydroxide (LDH) loading on the rheological properties of poly (methyl methacrylate) (PMMA)/LDH blend solution. Powder Technology, 2014, 256, 196-203.	4.2	44
10	Synthesis of Cu-Al LDH nanofluid and its application in spray cooling heat transfer of a hot steel plate. Powder Technology, 2018, 335, 285-300.	4.2	42
11	Heat transfer enhancement using surfactant based alumina nanofluid jet from a hot steel plate. Experimental Thermal and Fluid Science, 2017, 89, 295-303.	2.7	33
12	Spray cooling of hot steel plate using aqueous solution of surfactant and polymer. Thermal Science and Engineering Progress, 2019, 10, 217-231.	2.7	29
13	Investigation of structural, rheological and thermal properties of PMMA/ONi-Al LDH nanocomposites synthesized via solvent blending method: Effect of LDH loading. Chinese Journal of Polymer Science (English Edition), 2016, 34, 739-754.	3.8	19
14	Heat transfer in jet impingement on a hot steel surface using surfactant based Cuâ€"Al layered double hydroxide nanofluid. International Journal of Heat and Mass Transfer, 2016, 101, 825-833.	4.8	18
15	Ultrafast cooling of a hot steel plate using Cu-Al layered double hydroxide nanofluid jet. International Journal of Thermal Sciences, 2017, 116, 52-62.	4.9	18
16	Effect of alumina nanofluid jet on the enhancement of heat transfer from a steel plate. Heat and Mass Transfer, 2017, 53, 2187-2197.	2.1	17
17	Application of TiO₂ nanofluid-based coolant for jet impingement quenching of a hot steel plate. Experimental Heat Transfer, 2019, 32, 322-336.	3.2	14
18	Synthesis and characterization of Zn-Al layered double hydroxide nanofluid and its application as a coolant in metal quenching. Applied Clay Science, 2017, 143, 241-249.	5.2	12

#	Article	IF	Citations
19	Heat transfer from a hot moving steel plate by using Cu-Al layered double hydroxide nanofluid based air atomized spray. Experimental Heat Transfer, 2017, 30, 500-516.	3.2	10
20	Morphological, mechanical, and thermal features of PMMA nanocomposites containing twoâ€dimensional Coâ€“Al layered double hydroxide. Journal of Applied Polymer Science, 2018, 135, 45774.	2.6	10
21	Influence of Marangoni stress on the variation in number of coalescence cascade stages. Canadian Journal of Chemical Engineering, 2019, 97, 983-994.	1.7	10
22	Comparative study on different additives with a jet array on cooling of a hot steel surface. Applied Thermal Engineering, 2018, 137, 154-163.	6.0	9
23	Role of anisotropic pinning and liquid properties during partial rebound of droplets on unidirectionally structured hydrophobic surfaces. Chemical Engineering Science, 2021, 230, 116197.	3.8	8
24	Synthesis of Cu-Al LDH nanofluid and effectiveness as a promoter for CO2 hydrate formation. Chemical Engineering Journal, 2022, 435, 134786.	12.7	6