

# Samarshi Chakraborty

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,149  
citations

566801

15  
h-index

610482

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.	3.0	317
2	Thermal reduction of graphene oxide: How temperature influences purity. Journal of Materials Research, 2018, 33, 4113-4122.	1.2	185
3	Thermophysical properties using ND/water nanofluids: An experimental study, ANFIS-based model and optimization. Journal of Molecular Liquids, 2021, 330, 115659.	2.3	67
4	Experimental investigation on the effect of dispersant addition on thermal and rheological characteristics of TiO <sub>2</sub> nanofluid. Powder Technology, 2017, 307, 10-24.	2.1	64
5	Synthesis of Cu-Al layered double hydroxide nanofluid and characterization of its thermal properties. Applied Clay Science, 2015, 107, 98-108.	2.6	63
6	Thermo-physical properties of Cu-Zn-Al LDH nanofluid and its application in spray cooling. Applied Thermal Engineering, 2018, 141, 339-351.	3.0	54
7	Heat transfer enhancement using air-atomized spray cooling with water-Al <sub>2</sub> O <sub>3</sub> nanofluid. International Journal of Thermal Sciences, 2015, 96, 85-93.	2.6	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.	2.6	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.	2.1	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.	2.1	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.	1.5	33
12	Spray cooling of hot steel plate using aqueous solution of surfactant and polymer. Thermal Science and Engineering Progress, 2019, 10, 217-231.	1.3	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.	2.0	19
14	Heat transfer in jet impingement on a hot steel surface using surfactant based Cu-Al layered double hydroxide nanofluid. International Journal of Heat and Mass Transfer, 2016, 101, 825-833.	2.5	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.	2.6	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.	1.2	17
17	Application of TiO <sub>2</sub> nanofluid-based coolant for jet impingement quenching of a hot steel plate. Experimental Heat Transfer, 2019, 32, 322-336.	2.3	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.	2.6	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. <i>Experimental Heat Transfer</i> , 2017, 30, 500-516.	2.3	10
20	Morphological, mechanical, and thermal features of PMMA nanocomposites containing two-dimensional Co-Al layered double hydroxide. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45774.	1.3	10
21	Influence of Marangoni stress on the variation in number of coalescence cascade stages. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 983-994.	0.9	10
22	Comparative study on different additives with a jet array on cooling of a hot steel surface. <i>Applied Thermal Engineering</i> , 2018, 137, 154-163.	3.0	9
23	Role of anisotropic pinning and liquid properties during partial rebound of droplets on unidirectionally structured hydrophobic surfaces. <i>Chemical Engineering Science</i> , 2021, 230, 116197.	1.9	8
24	Synthesis of Cu-Al LDH nanofluid and effectiveness as a promoter for CO <sub>2</sub> hydrate formation. <i>Chemical Engineering Journal</i> , 2022, 435, 134786.	6.6	6