Chinmay Ghoroi

List of Publications by Year
in descending order

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56	1,507	361413	330143
papers	citations	20 h-index	37 g-index

58	58	58	1491
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Humidity induced interparticle friction and its mitigation in fine powder flow. Particulate Science and Technology, 2022, 40, 598-608.	2.1	1
2	Oxidation of Ferrochrome Slag Using CO2: A Possible O2 Carrier in CLC Process. Journal of Sustainable Metallurgy, 2022, 8, 343.	2.3	1
3	Influence of surface interaction between drug and excipient in binary mixture for dry powder inhaler applications. Advanced Powder Technology, 2022, 33, 103443.	4.1	6
4	Crystallization induced flower-like lactose as potential carriers for dry powder inhaler application. Powder Technology, 2022, 403, 117391.	4.2	1
5	Flow improvement of fine oxidizer using nano-additives. Advanced Powder Technology, 2022, 33, 103711.	4.1	2
6	Engineered inhalable micro-balloon shaped drug particles for carrier-free dry powder inhalation (DPI) application. Powder Technology, 2022, 408, 117705.	4.2	6
7	Physicochemical, thermal, and flow properties of ice cream powder as influenced by moisture content. Journal of Food Processing and Preservation, 2021, 45, e15106.	2.0	8
8	Stimuli Responsive, Programmable DNA Nanodevices for Biomedical Applications. Frontiers in Chemistry, 2021, 9, 704234.	3.6	10
9	Seasonal photovoltaic soiling: Analysis of size and composition of deposited particulate matter. Solar Energy, 2021, 227, 44-55.	6.1	7
10	Designer DNA Hydrogels Stimulate 3D Cell Invasion by Enhanced Receptor Expression and Membrane Endocytosis. ACS Biomaterials Science and Engineering, 2021, 7, 5933-5942.	5.2	8
11	Role of randomly distributed nanoscale roughness for designing highly hydrophobic particle surface without using low surface energy coating. Journal of Colloid and Interface Science, 2020, 564, 8-18.	9.4	23
12	Functional DNA Based Hydrogels: Development, Properties and Biological Applications. ACS Biomaterials Science and Engineering, 2020, 6, 6021-6035.	5.2	61
13	DNA-Functionalized Nanoparticles for Targeted Biosensing and Biological Applications. ACS Omega, 2020, 5, 30767-30774.	3.5	8
14	Low-cost solar PV soiling sensor validation and size resolved soiling impacts: A comprehensive field study in Western India. Solar Energy, 2020, 204, 307-315.	6.1	47
15	Layered magnesium diboride and its derivatives as potential catalytic and energetic additives for tuning the exothermicity of ammonium perchlorate. Thermochimica Acta, 2020, 690, 178674.	2.7	17
16	Performance of Combustible Facade Systems with Glass, ACP and Firestops in Full-Scale, Real Fire Experiments. Fire Technology, 2020, 56, 1575-1598.	3.0	15
17	One-step dry synthesis of an iron based nano-biocomposite for controlled release of drugs. RSC Advances, 2020, 10, 13394-13404.	3.6	9
18	Enzyme-mimetic activity of sugar cane juice stabilized CuO nanospheres and CuO/GO nanocomposite: Green synthesis and applications. Colloids and Interface Science Communications, 2020, 35, 100239.	4.1	16

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19	Nano-TiO₂ promoted CaO-based high-temperature CO₂ sorbent: influence of crystal level properties on the CO₂ sorption efficiency. Reaction Chemistry and Engineering, 2020, 5, 1251-1263.	3.7	2
20	Quantifying the CO and CO₂ Mole Fraction in the Plume of an Aerosol-Based Fire Extinguishing Agent Using 4560 nm and 4320 nm QCLs. IEEE Sensors Journal, 2019, 19, 9728-9735.	4.7	3
21	A Non-electric and Affordable Surface Engineered Particle (SEP) based Point-of-Use (POU) Water Disinfection System. Scientific Reports, 2019, 9, 18245.	3.3	4
22	Fabrication and characterization of Li4SiO4 pebbles by extrusion spherodization technique: Effects of three different binders. Ceramics International, 2019, 45, 4022-4034.	4.8	13
23	Effect of particle and surface properties on flowability of rice flours. Food Bioscience, 2018, 23, 38-44.	4.4	16
24	Reaction kinetics to infer the effect of dopants on ion transport - A case study for Mo+6 doped lithium titanates (Li2TiO3-Î´ and Li4Ti5O12-Î´). Ceramics International, 2018, 44, 12580-12592.	4.8	5
25	Influences of Crystal Anisotropy in Pharmaceutical Process Development. Pharmaceutical Research, 2018, 35, 100.	3.5	44
26	Characterization of bulk and shear properties of basmati and nonâ€basmati rice flour. Journal of the Science of Food and Agriculture, 2018, 98, 667-673.	3.5	6
27	Influence of Ar plasma treatment on the wetting behavior of pharmaceutical powders. Advanced Powder Technology, 2018, 29, 2928-2940.	4.1	5
28	Development of a Unique Full-Scale Real-Fire Facade Testing Facility at IIT Gandhinagar. Current Science, 2018, 115, 1782.	0.8	4
29	Influence of moisture content on the flow properties of basundi mix. Powder Technology, 2017, 312, 133-143.	4.2	41
30	Influence of catalytic nano-additive for stabilization of Î² -dicalcium silicate and its hydration rate with different electrolytes. Cement and Concrete Research, 2017, 98, 111-121.	11.0	22
31	Effect of particle size, shape and surface roughness on bulk and shear properties of rice flour. Journal of Cereal Science, 2017, 76, 215-221.	3.7	11
32	Large Reductions in Solar Energy Production Due to Dust and Particulate Air Pollution. Environmental Science and Technology Letters, 2017, 4, 339-344.	8.7	159
33	A comparative study of flow properties of basmati and non-basmati rice flour from two different mills. Journal of Cereal Science, 2017, 76, 165-172.	3.7	6
34	Influence of particle properties on powder bulk behaviour and processability. International Journal of Pharmaceutics, 2017, 518, 138-154.	5.2	66
35	Improving the wetting and dissolution of ibuprofen using solventless co-milling. International Journal of Pharmaceutics, 2017, 533, 145-155.	5.2	26
36	Adhesion force approximation at varying consolidation stresses for fine powder under humid conditions. Advanced Powder Technology, 2017, 28, 346-355.	4.1	12

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37	Performance of glass-ACP faÃ§ade system in a full-scale real fire test in a G+2 structure. Procedia Engineering, 2017, 210, 512-519.	1.2	9
38	Thermo-kinetic analysis of Niâ€“Al intermetallic phase formation in powder system. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1039-1051.	3.6	13
39	Decomposition kinetics of CaCO3 dry coated with nano-silica. Thermochimica Acta, 2016, 624, 35-46.	2.7	21
40	Effect of temperature on the surface free energy and acidâ€“base properties of Gabapentin and Pregabalin drugs â^' a comparative study. RSC Advances, 2015, 5, 48712-48719.	3.6	10
41	A critique of thermokinetic analysis in solids processing: Cement industry as a case study. Thermochimica Acta, 2015, 618, 56-66.	2.7	2
42	Surface modification to improve powder bulk behavior under humid conditions. Powder Technology, 2015, 278, 181-188.	4.2	37
43	Fine powder flow under humid environmental conditions from the perspective of surface energy. International Journal of Pharmaceutics, 2015, 485, 192-201.	5.2	29
44	Influence of surface modification on wettability and surface energy characteristics of pharmaceutical excipient powders. International Journal of Pharmaceutics, 2014, 475, 351-363.	5.2	81
45	Pre-Detection of Kitchen Fires due to Auto-Ignition of Cooking Oil and LPG Leakage in Indian Kitchens. Fire Safety Science, 2014, 11, 1285-1297.	0.3	6
46	Dispersion of fine and ultrafine powders through surface modification and rapid expansion. Chemical Engineering Science, 2013, 85, 11-24.	3.8	55
47	Dry coating of micronized API powders for improved dissolution of directly compacted tablets with high drug loading. International Journal of Pharmaceutics, 2013, 442, 74-85.	5.2	70
48	Multi-faceted characterization of pharmaceutical powders to discern the influence of surface modification. Powder Technology, 2013, 236, 63-74.	4.2	56
49	Wettability measurement apparatus for porous material using the modified Washburn method. Measurement Science and Technology, 2013, 24, 125902.	2.6	30
50	Passivation of High-Surface-Energy Sites of Milled Ibuprofen Crystals via Dry Coating for Reduced Cohesion and Improved Flowability. Journal of Pharmaceutical Sciences, 2013, 102, 2282-2296.	3.3	68
51	Improvement of flow and bulk density of pharmaceutical powders using surface modification. International Journal of Pharmaceutics, 2012, 423, 213-225.	5.2	124
52	Simultaneous micronization and surface modification for improvement of flow and dissolution of drug particles. International Journal of Pharmaceutics, 2011, 415, 185-195.	5.2	135
53	Solidâ€“solid reactions in series: A modeling and experimental study. AICHE Journal, 2009, 55, 2399-2413.	3.6	12
54	Solidâ€“solid reaction kinetics: Formation of tricalcium aluminate. AICHE Journal, 2007, 53, 502-513.	3.6	41

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55	Intermediate conversion kinetics in ticalcium aluminate formation. AICHE Journal, 2007, 53, 2399-2410.	3.6	15
56	Conversion of a CNG Powered Auto Rickshaw to an Electric Rickshaw Designed for Indian Conditions. , 0, , .		2