

# Chinmay Ghoroi

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,507  
citations

361413

20  
h-index

330143

37  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1491  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Reductions in Solar Energy Production Due to Dust and Particulate Air Pollution. <i>Environmental Science and Technology Letters</i> , 2017, 4, 339-344.	8.7	159
2	Simultaneous micronization and surface modification for improvement of flow and dissolution of drug particles. <i>International Journal of Pharmaceutics</i> , 2011, 415, 185-195.	5.2	135
3	Improvement of flow and bulk density of pharmaceutical powders using surface modification. <i>International Journal of Pharmaceutics</i> , 2012, 423, 213-225.	5.2	124
4	Influence of surface modification on wettability and surface energy characteristics of pharmaceutical excipient powders. <i>International Journal of Pharmaceutics</i> , 2014, 475, 351-363.	5.2	81
5	Dry coating of micronized API powders for improved dissolution of directly compacted tablets with high drug loading. <i>International Journal of Pharmaceutics</i> , 2013, 442, 74-85.	5.2	70
6	Passivation of High-Surface-Energy Sites of Milled Ibuprofen Crystals via Dry Coating for Reduced Cohesion and Improved Flowability. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 2282-2296.	3.3	68
7	Influence of particle properties on powder bulk behaviour and processability. <i>International Journal of Pharmaceutics</i> , 2017, 518, 138-154.	5.2	66
8	Functional DNA Based Hydrogels: Development, Properties and Biological Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6021-6035.	5.2	61
9	Multi-faceted characterization of pharmaceutical powders to discern the influence of surface modification. <i>Powder Technology</i> , 2013, 236, 63-74.	4.2	56
10	Dispersion of fine and ultrafine powders through surface modification and rapid expansion. <i>Chemical Engineering Science</i> , 2013, 85, 11-24.	3.8	55
11	Low-cost solar PV soiling sensor validation and size resolved soiling impacts: A comprehensive field study in Western India. <i>Solar Energy</i> , 2020, 204, 307-315.	6.1	47
12	Influences of Crystal Anisotropy in Pharmaceutical Process Development. <i>Pharmaceutical Research</i> , 2018, 35, 100.	3.5	44
13	Solidâ€“solid reaction kinetics: Formation of tricalcium aluminate. <i>AIChE Journal</i> , 2007, 53, 502-513.	3.6	41
14	Influence of moisture content on the flow properties of basundi mix. <i>Powder Technology</i> , 2017, 312, 133-143.	4.2	41
15	Surface modification to improve powder bulk behavior under humid conditions. <i>Powder Technology</i> , 2015, 278, 181-188.	4.2	37
16	Wettability measurement apparatus for porous material using the modified Washburn method. <i>Measurement Science and Technology</i> , 2013, 24, 125902.	2.6	30
17	Fine powder flow under humid environmental conditions from the perspective of surface energy. <i>International Journal of Pharmaceutics</i> , 2015, 485, 192-201.	5.2	29
18	Improving the wetting and dissolution of ibuprofen using solventless co-milling. <i>International Journal of Pharmaceutics</i> , 2017, 533, 145-155.	5.2	26

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19	Role of randomly distributed nanoscale roughness for designing highly hydrophobic particle surface without using low surface energy coating. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 8-18.	9.4	23
20	Influence of catalytic nano-additive for stabilization of $\beta$ -dicalcium silicate and its hydration rate with different electrolytes. <i>Cement and Concrete Research</i> , 2017, 98, 111-121.	11.0	22
21	Decomposition kinetics of $\text{CaCO}_3$ dry coated with nano-silica. <i>Thermochimica Acta</i> , 2016, 624, 35-46.	2.7	21
22	Layered magnesium diboride and its derivatives as potential catalytic and energetic additives for tuning the exothermicity of ammonium perchlorate. <i>Thermochimica Acta</i> , 2020, 690, 178674.	2.7	17
23	Effect of particle and surface properties on flowability of rice flours. <i>Food Bioscience</i> , 2018, 23, 38-44.	4.4	16
24	Enzyme-mimetic activity of sugar cane juice stabilized $\text{CuO}$ nanospheres and $\text{CuO/GO}$ nanocomposite: Green synthesis and applications. <i>Colloids and Interface Science Communications</i> , 2020, 35, 100239.	4.1	16
25	Intermediate conversion kinetics in ticalcium aluminate formation. <i>AIChE Journal</i> , 2007, 53, 2399-2410.	3.6	15
26	Performance of Combustible Facade Systems with Glass, ACP and Firestops in Full-Scale, Real Fire Experiments. <i>Fire Technology</i> , 2020, 56, 1575-1598.	3.0	15
27	Thermo-kinetic analysis of $\text{Ni-Al}$ intermetallic phase formation in powder system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 1039-1051.	3.6	13
28	Fabrication and characterization of $\text{Li}_4\text{SiO}_4$ pebbles by extrusion spherodization technique: Effects of three different binders. <i>Ceramics International</i> , 2019, 45, 4022-4034.	4.8	13
29	Solid-solid reactions in series: A modeling and experimental study. <i>AIChE Journal</i> , 2009, 55, 2399-2413.	3.6	12
30	Adhesion force approximation at varying consolidation stresses for fine powder under humid conditions. <i>Advanced Powder Technology</i> , 2017, 28, 346-355.	4.1	12
31	Effect of particle size, shape and surface roughness on bulk and shear properties of rice flour. <i>Journal of Cereal Science</i> , 2017, 76, 215-221.	3.7	11
32	Effect of temperature on the surface free energy and acid-base properties of Gabapentin and Pregabalin drugs - a comparative study. <i>RSC Advances</i> , 2015, 5, 48712-48719.	3.6	10
33	Stimuli Responsive, Programmable DNA Nanodevices for Biomedical Applications. <i>Frontiers in Chemistry</i> , 2021, 9, 704234.	3.6	10
34	Performance of glass-ACP facade system in a full-scale real fire test in a G+2 structure. <i>Procedia Engineering</i> , 2017, 210, 512-519.	1.2	9
35	One-step dry synthesis of an iron based nano-biocomposite for controlled release of drugs. <i>RSC Advances</i> , 2020, 10, 13394-13404.	3.6	9
36	DNA-Functionalized Nanoparticles for Targeted Biosensing and Biological Applications. <i>ACS Omega</i> , 2020, 5, 30767-30774.	3.5	8

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37	Physicochemical, thermal, and flow properties of ice cream powder as influenced by moisture content. <i>Journal of Food Processing and Preservation</i> , 2021, 45, e15106.	2.0	8
38	Designer DNA Hydrogels Stimulate 3D Cell Invasion by Enhanced Receptor Expression and Membrane Endocytosis. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5933-5942.	5.2	8
39	Seasonal photovoltaic soiling: Analysis of size and composition of deposited particulate matter. <i>Solar Energy</i> , 2021, 227, 44-55.	6.1	7
40	A comparative study of flow properties of basmati and non-basmati rice flour from two different mills. <i>Journal of Cereal Science</i> , 2017, 76, 165-172.	3.7	6
41	Characterization of bulk and shear properties of basmati and non-basmati rice flour. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 667-673.	3.5	6
42	Pre-Detection of Kitchen Fires due to Auto-Ignition of Cooking Oil and LPG Leakage in Indian Kitchens. <i>Fire Safety Science</i> , 2014, 11, 1285-1297.	0.3	6
43	Influence of surface interaction between drug and excipient in binary mixture for dry powder inhaler applications. <i>Advanced Powder Technology</i> , 2022, 33, 103443.	4.1	6
44	Engineered inhalable micro-balloon shaped drug particles for carrier-free dry powder inhalation (DPI) application. <i>Powder Technology</i> , 2022, 408, 117705.	4.2	6
45	Reaction kinetics to infer the effect of dopants on ion transport - A case study for Mo <sup>6+</sup> doped lithium titanates (Li <sub>2</sub> TiO <sub>3</sub> - $\hat{\Gamma}$ and Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> - $\hat{\Gamma}$ ). <i>Ceramics International</i> , 2018, 44, 12580-12592.	4.8	5
46	Influence of Ar plasma treatment on the wetting behavior of pharmaceutical powders. <i>Advanced Powder Technology</i> , 2018, 29, 2928-2940.	4.1	5
47	A Non-electric and Affordable Surface Engineered Particle (SEP) based Point-of-Use (POU) Water Disinfection System. <i>Scientific Reports</i> , 2019, 9, 18245.	3.3	4
48	Development of a Unique Full-Scale Real-Fire Facade Testing Facility at IIT Gandhinagar. <i>Current Science</i> , 2018, 115, 1782.	0.8	4
49	Quantifying the CO and CO <sub>2</sub> Mole Fraction in the Plume of an Aerosol-Based Fire Extinguishing Agent Using 4560 nm and 4320 nm QCLs. <i>IEEE Sensors Journal</i> , 2019, 19, 9728-9735.	4.7	3
50	Conversion of a CNG Powered Auto Rickshaw to an Electric Rickshaw Designed for Indian Conditions. , 0, , .		2
51	A critique of thermokinetic analysis in solids processing: Cement industry as a case study. <i>Thermochimica Acta</i> , 2015, 618, 56-66.	2.7	2
52	Nano-TiO <sub>2</sub> promoted CaO-based high-temperature CO <sub>2</sub> sorbent: influence of crystal level properties on the CO <sub>2</sub> sorption efficiency. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 1251-1263.	3.7	2
53	Flow improvement of fine oxidizer using nano-additives. <i>Advanced Powder Technology</i> , 2022, 33, 103711.	4.1	2
54	Humidity induced interparticle friction and its mitigation in fine powder flow. <i>Particulate Science and Technology</i> , 2022, 40, 598-608.	2.1	1

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55	Oxidation of Ferrochrome Slag Using CO <sub>2</sub> : A Possible O <sub>2</sub> Carrier in CLC Process. Journal of Sustainable Metallurgy, 2022, 8, 343.	2.3	1
56	Crystallization induced flower-like lactose as potential carriers for dry powder inhaler application. Powder Technology, 2022, 403, 117391.	4.2	1