

Maitraye Sen

List of Publications by Year in descending order

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21
papers

600
citations

686830

13
h-index

752256

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g-index

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all docs

21
docs citations

21
times ranked

417
citing authors

#	ARTICLE	IF	CITATIONS
1	A particle location based multi-level coarse-graining technique for Discrete Element Method (DEM) simulation. Powder Technology, 2022, 398, 117058.	2.1	13
2	An optimization-based model discrimination framework for selecting an appropriate reaction kinetic model structure during early phase pharmaceutical process development. Reaction Chemistry and Engineering, 2021, 6, 2092-2103.	1.9	4
3	Development and implementation of a hybrid scale up model for a batch high shear wet granulation operation. AIChE Journal, 2021, 67, e17183.	1.8	2
4	Exploring the wet granulation growth regime map – validating the boundary between nucleation and induction. Chemical Engineering Research and Design, 2020, 156, 469-477.	2.7	6
5	Process dynamics and control of API manufacturing and purification processes. Computer Aided Chemical Engineering, 2018, , 261-292.	0.3	0
6	Granule breakage in twin screw granulation: Effect of material properties and screw element geometry. Powder Technology, 2017, 315, 290-299.	2.1	21
7	Analyzing the Mixing Dynamics of an Industrial Batch Bin Blender via Discrete Element Modeling Method. Processes, 2017, 5, 22.	1.3	24
8	Quantitative validation and analysis of the regime map approach for the wet granulation of industrially relevant zirconium hydroxide powders. Powder Technology, 2016, 294, 177-184.	2.1	8
9	Statistical analysis and comparison of a continuous high shear granulator with a twin screw granulator: Effect of process parameters on critical granule attributes and granulation mechanisms. International Journal of Pharmaceutics, 2016, 513, 357-375.	2.6	47
10	Population Balance Models for Pharmaceutical Processes. Methods in Pharmacology and Toxicology, 2016, , 43-83.	0.1	2
11	Integrated Moving Horizon-Based Dynamic Real-Time Optimization and Hybrid MPC-PID Control of a Direct Compaction Continuous Tablet Manufacturing Process. Journal of Pharmaceutical Innovation, 2015, 10, 233-253.	1.1	22
12	A Hybrid MPC-PID Control System Design for the Continuous Purification and Processing of Active Pharmaceutical Ingredients. Processes, 2014, 2, 392-418.	1.3	24
13	Simulation-Based Design of an Efficient Control System for the Continuous Purification and Processing of Active Pharmaceutical Ingredients. Journal of Pharmaceutical Innovation, 2014, 9, 65-81.	1.1	9
14	Closed-Loop Feedback Control of a Continuous Pharmaceutical Tablet Manufacturing Process via Wet Granulation. Journal of Pharmaceutical Innovation, 2014, 9, 16-37.	1.1	54
15	A Multi-Scale Hybrid CFD-DEM-PBM Description of a Fluid-Bed Granulation Process. Processes, 2014, 2, 89-111.	1.3	69
16	Flowsheet optimization of an integrated continuous purification-processing pharmaceutical manufacturing operation. Chemical Engineering Science, 2013, 102, 56-66.	1.9	45
17	A multi-dimensional population balance model approach to continuous powder mixing processes. Advanced Powder Technology, 2013, 24, 51-59.	2.0	59
18	Computer-Aided Flowsheet Simulation of a Pharmaceutical Tablet Manufacturing Process Incorporating Wet Granulation. Journal of Pharmaceutical Innovation, 2013, 8, 11-27.	1.1	59

#	ARTICLE	IF	CITATIONS
19	Multi-scale flowsheet simulation of an integrated continuous purificationâ€“downstream pharmaceutical manufacturing process. <i>International Journal of Pharmaceutics</i> , 2013, 445, 29-38.	2.6	48
20	Mathematical Development and Comparison of a Hybrid PBM-DEM Description of a Continuous Powder Mixing Process. <i>Journal of Powder Technology</i> , 2013, 2013, 1-11.	0.4	36
21	Multi-dimensional population balance modeling and experimental validation of continuous powder mixing processes. <i>Chemical Engineering Science</i> , 2012, 80, 349-360.	1.9	48