

Ravendra Singh

List of Publications by Year in descending order

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49
papers

1,778
citations

304602

22
h-index

265120

42
g-index

51
all docs

51
docs citations

51
times ranked

1290
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in integrated process analytical techniques, modeling, and control strategies to enable continuous biomanufacturing of monoclonal antibodies. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 2317-2335.	1.6	25
2	Residence time distribution as a traceability method for lot changes in a pharmaceutical continuous manufacturing system. <i>International Journal of Pharmaceutics</i> , 2022, 611, 121313.	2.6	2
3	Integrated process control. , 2022, , 251-269.		1
4	Continuous tableting. , 2022, , 159-177.		0
5	Residence time distribution modelling and in line monitoring of drug concentration in a tablet press feed frame containing dead zones. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120048.	2.6	11
6	Sampling optimization for blend monitoring of a low dose formulation in a tablet press feed frame using spatially resolved near-infrared spectroscopy. <i>International Journal of Pharmaceutics</i> , 2021, 602, 120594.	2.6	9
7	Experimental investigation and modelling of tensile strength of pharmaceutical tablets based on shear force applied by feed frame paddles. <i>International Journal of Pharmaceutics</i> , 2021, 606, 120908.	2.6	0
8	Using residence time distribution in pharmaceutical solid dose manufacturing – A critical review. <i>International Journal of Pharmaceutics</i> , 2021, 610, 121248.	2.6	11
9	Systematic Framework for Implementation of Material Traceability into Continuous Pharmaceutical Tablet Manufacturing Process. <i>Journal of Pharmaceutical Innovation</i> , 2020, 15, 51-65.	1.1	14
10	Characterization of NIR interfaces for the feeding and in-line monitoring of a continuous granulation process. <i>International Journal of Pharmaceutics</i> , 2020, 574, 118848.	2.6	12
11	Effect of material properties on the residence time distribution (RTD) of a tablet press feed frame. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119961.	2.6	14
12	Dynamic Flowsheet Model Development and Sensitivity Analysis of a Continuous Pharmaceutical Tablet Manufacturing Process Using the Wet Granulation Route. <i>Processes</i> , 2019, 7, 234.	1.3	43
13	Residence Time Distribution (RTD)-Based Control System for Continuous Pharmaceutical Manufacturing Process. <i>Journal of Pharmaceutical Innovation</i> , 2019, 14, 316-331.	1.1	28
14	Combined Feedforward/Feedback Control of an Integrated Continuous Granulation Process. <i>Journal of Pharmaceutical Innovation</i> , 2019, 14, 259-285.	1.1	10
15	A Training on: Continuous Manufacturing (Direct Compaction) of Solid Dose Pharmaceutical Products. <i>Journal of Pharmaceutical Innovation</i> , 2018, 13, 155-187.	1.1	22
16	Modeling the effects of material properties on tablet compaction: A building block for controlling both batch and continuous pharmaceutical manufacturing processes. <i>International Journal of Pharmaceutics</i> , 2018, 543, 274-287.	2.6	27
17	Implementation of control system into continuous pharmaceutical manufacturing pilot plant (powder to tablet). <i>Computer Aided Chemical Engineering</i> , 2018, , 447-469.	0.3	7
18	Pharmaceutical Cocrystal Drug Products: An Outlook on Product Development. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 1033-1048.	4.0	114

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19	PAT for pharmaceutical manufacturing process involving solid dosages forms. Computer Aided Chemical Engineering, 2018, , 293-315.	0.3	3
20	Process dynamics and control of API manufacturing and purification processes. Computer Aided Chemical Engineering, 2018, , 261-292.	0.3	0
21	Model-based control system design and evaluation for continuous tablet manufacturing processes (via direct compaction, via roller compaction, via wet granulation). Computer Aided Chemical Engineering, 2018, , 317-351.	0.3	5
22	Model development and prediction of particle size distribution, density and friability of a comilling operation in a continuous pharmaceutical manufacturing process. International Journal of Pharmaceutics, 2018, 549, 271-282.	2.6	24
23	A Systematic Framework for Data Management and Integration in a Continuous Pharmaceutical Manufacturing Processing Line. Processes, 2018, 6, 53.	1.3	19
24	Advanced Model Predictive Feedforward/Feedback Control of a Tablet Press. Journal of Pharmaceutical Innovation, 2017, 12, 110-123.	1.1	18
25	Development and implementation of an advanced model predictive control system into continuous pharmaceutical tablet compaction process. International Journal of Pharmaceutics, 2017, 534, 159-178.	2.6	38
26	A Validated Model for Design and Evaluation of Control Architectures for a Continuous Tablet Compaction Process. Processes, 2017, 5, 76.	1.3	8
27	Near infrared spectroscopic calibration models for real time monitoring of powder density. International Journal of Pharmaceutics, 2016, 512, 61-74.	2.6	53
28	A systematic framework to monitor mulling processes using Near Infrared spectroscopy. Advanced Powder Technology, 2016, 27, 1115-1127.	2.0	11
29	Advanced Control of Continuous Pharmaceutical Tablet Manufacturing Processes. Methods in Pharmacology and Toxicology, 2016, , 191-224.	0.1	11
30	A Systematic Framework for the Design and Implementation of Sensing and Control Architecture for a Continuous Pharmaceutical Manufacturing Plant. Computer Aided Chemical Engineering, 2016, 38, 1473-1478.	0.3	1
31	A Combined Feed-Forward/Feed-Back Control System for a QbD-Based Continuous Tablet Manufacturing Process. Processes, 2015, 3, 339-356.	1.3	39
32	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
33	Assessment of Recent Process Analytical Technology (PAT) Trends: A Multiauthor Review. Organic Process Research and Development, 2015, 19, 3-62.	1.3	329
34	Real time monitoring of powder blend bulk density for coupled feed-forward/feed-back control of a continuous direct compaction tablet manufacturing process. International Journal of Pharmaceutics, 2015, 495, 612-625.	2.6	64
35	Plant-Wide Control of a Continuous Tablet Manufacturing for Quality-By-Design Based Pharmaceutical Manufacturing. Computer Aided Chemical Engineering, 2015, 37, 2183-2188.	0.3	5
36	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

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37	Simulation-Based Design of an Efficient Control System for the Continuous Purification and Processing of Active Pharmaceutical Ingredients. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 65-81.	1.1	9
38	Closed-Loop Feedback Control of a Continuous Pharmaceutical Tablet Manufacturing Process via Wet Granulation. <i>Journal of Pharmaceutical Innovation</i> , 2014, 9, 16-37.	1.1	54
39	Implementation of an advanced hybrid MPC+PID control system using PAT tools into a direct compaction continuous pharmaceutical tablet manufacturing pilot plant. <i>International Journal of Pharmaceutics</i> , 2014, 473, 38-54.	2.6	80
40	A systematic framework for onsite design and implementation of a control system in a continuous tablet manufacturing process. <i>Computers and Chemical Engineering</i> , 2014, 66, 186-200.	2.0	85
41	A Multi-Scale Hybrid CFD-DEM-PBM Description of a Fluid-Bed Granulation Process. <i>Processes</i> , 2014, 2, 89-111.	1.3	69
42	Systematic substrate adoption methodology (SAM) for future flexible, generic pharmaceutical production processes. <i>Computers and Chemical Engineering</i> , 2013, 58, 344-368.	2.0	14
43	System-wide hybrid MPC+PID control of a continuous pharmaceutical tablet manufacturing process via direct compaction. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 85, 1164-1182.	2.0	89
44	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
45	An engineering study on the enhanced control and operation of continuous manufacturing of pharmaceutical tablets via roller compaction. <i>International Journal of Pharmaceutics</i> , 2012, 438, 307-326.	2.6	105
46	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
47	ICAS-PAT: A software for design, analysis and validation of PAT systems. <i>Computers and Chemical Engineering</i> , 2010, 34, 1108-1136.	2.0	43
48	An ontological knowledge-based system for the selection of process monitoring and analysis tools. <i>Computers and Chemical Engineering</i> , 2010, 34, 1137-1154.	2.0	40
49	Model-based computer-aided framework for design of process monitoring and analysis systems. <i>Computers and Chemical Engineering</i> , 2009, 33, 22-42.	2.0	72