

Chris D Rielly

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,241
citations

361413

20
h-index

361022

35
g-index

56
all docs

56
docs citations

56
times ranked

1053
citing authors

#	ARTICLE	IF	CITATIONS
1	Pharmaceutical crystallisation processes from batch to continuous operation using MSMPR stages: Modelling, design, and control. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 89, 41-53.	3.6	102
2	Seeded Batch Cooling Crystallization with Temperature Cycling for the Control of Size Uniformity and Polymorphic Purity of Sulfathiazole Crystals. <i>Organic Process Research and Development</i> , 2009, 13, 1343-1356.	2.7	90
3	Spray-freeze-drying of whey proteins at sub-atmospheric pressures. <i>Dairy Science and Technology</i> , 2010, 90, 321-334.	2.2	88
4	Automated direct nucleation control for in situ dynamic fines removal in batch cooling crystallization. <i>CrystEngComm</i> , 2012, 14, 2196.	2.6	84
5	Enabling precision manufacturing of active pharmaceutical ingredients: workflow for seeded cooling continuous crystallisations. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 518-549.	3.4	66
6	Angle-resolved stereo-PIV measurements close to a down-pumping pitched-blade turbine. <i>Chemical Engineering Science</i> , 2006, 61, 2799-2806.	3.8	61
7	Periodic steady-state flow crystallization of a pharmaceutical drug using MSMPR operation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 97, 195-212.	3.6	56
8	Application of fluorescent PIV and digital image analysis to measure turbulence properties of solid-liquid stirred suspensions. <i>Chemical Engineering Research and Design</i> , 2009, 87, 573-586.	5.6	55
9	A particle's eye view of crystallizer fluid mechanics. <i>Chemical Engineering Science</i> , 2001, 56, 2475-2493.	3.8	53
10	Monitoring Continuous Crystallization of Paracetamol in the Presence of an Additive Using an Integrated PAT Array and Multivariate Methods. <i>Organic Process Research and Development</i> , 2016, 20, 626-636.	2.7	46
11	Toward Continuous Crystallization of Urea-Barbituric Acid: A Polymorphic Co-Crystal System. <i>Crystal Growth and Design</i> , 2015, 15, 4821-4836.	3.0	45
12	Mathematical Modeling, Design, and Optimization of a Multisegment Multiaddition Plug-Flow Crystallizer for Antisolvent Crystallizations. <i>Organic Process Research and Development</i> , 2015, 19, 1859-1870.	2.7	43
13	Mathematical modelling and experimental validation of a novel periodic flow crystallization using MSMPR crystallizers. <i>AIChE Journal</i> , 2017, 63, 1313-1327.	3.6	38
14	A framework for model reliability and estimability analysis of crystallization processes with multi-impurity multi-dimensional population balance models. <i>Computers and Chemical Engineering</i> , 2019, 122, 275-292.	3.8	37
15	Dispersion of Nano-Particle Clusters Using Mixed Flow and High Shear Impellers in Stirred Tanks. <i>Chemical Engineering Research and Design</i> , 2007, 85, 676-684.	5.6	36
16	Tuning Morphology in Active Pharmaceutical Ingredients: Controlling the Crystal Habit of Lovastatin through Solvent Choice and Non-Size-Matched Polymer Additives. <i>Crystal Growth and Design</i> , 2020, 20, 5854-5862.	3.0	32
17	A Multi-Block Approach to Obtain Angle-Resolved PIV Measurements of the Mean Flow and Turbulence Fields in a Stirred Vessel. <i>Chemical Engineering and Technology</i> , 2004, 27, 264-269.	1.5	30
18	Flow and Mixing Characteristics of a Retreat Curve Impeller in a Conical-Based Vessel. <i>Chemical Engineering Research and Design</i> , 2007, 85, 953-962.	5.6	21

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19	Destabilisation of homogeneous bubbly flow in an annular gap bubble column. Canadian Journal of Chemical Engineering, 2010, 88, 482-490.	1.7	20
20	An experimental study of gas void fraction in dilute alcohol solutions in annular gap bubble columns using a four-point conductivity probe. Chemical Engineering Science, 2011, 66, 5739-5748.	3.8	20
21	PIV study of the flow field generated by a sawtooth impeller. Chemical Engineering Science, 2011, 66, 5374-5387.	3.8	20
22	Measurement of Particle Impact Frequencies and Velocities on Impeller Blades in a Mixing Tank. Chemical Engineering Research and Design, 2004, 82, 1237-1249.	5.6	18
23	Application of Computational Fluid Dynamics (CFD) Simulations to Spray-Freezing Operations. Drying Technology, 2009, 28, 94-102.	3.1	18
24	Protein crystallisation with air bubble templates: case of gas-liquid-solid interfaces. CrystEngComm, 2021, 23, 8159-8168.	2.6	15
25	The heat transfer characteristics of a mesoscale continuous oscillatory flow crystalliser with smooth periodic constrictions. International Journal of Heat and Mass Transfer, 2018, 123, 1109-1119.	4.8	14
26	Insight into the large-scale upstream fermentation environment using scaled-down models. Journal of Chemical Technology and Biotechnology, 2019, 94, 647-657.	3.2	14
27	Modelling of heavy and buoyant particle dispersion in a two-dimensional turbulent mixing layer. Powder Technology, 2007, 178, 151-165.	4.2	12
28	Three-Way Coupling Simulation of a Gas-Liquid Stirred Tank using a Multi-Compartment Population Balance Model. Chemical Product and Process Modeling, 2016, 11, 205-216.	0.9	11
29	Solid-liquid axial dispersion performance of a mesoscale continuous oscillatory flow crystalliser with smooth periodic constrictions using a non-invasive dual backlit imaging technique. Chemical Engineering Journal, 2020, 382, 122862.	12.7	11
30	The Role of Residence Time Distribution in the Continuous Steady-State Mixed Suspension Mixed Product Removal Crystallization of Glycine. Crystal Growth and Design, 2019, 19, 66-80.	3.0	10
31	Hydraulic Performance of an Annular Plunging Jet Reactor. Chemical Engineering Research and Design, 2002, 80, 543-549.	5.6	6
32	Characterisation of axial dispersion in a Meso-scale Oscillatory Baffled Crystalliser using a Numerical Approach. Computer Aided Chemical Engineering, 2017, 40, 223-228.	0.5	3
33	Simultaneous design and control framework for multi-segment multi-addition plug-flow crystallizer for anti-solvent crystallizations. , 2015, , ,		2
34	Control of Batch and Continuous Crystallization Processes using Reinforcement Learning. Computer Aided Chemical Engineering, 2021, , 1371-1376.	0.5	2
35	Hydrodynamics of fluid flow approaching a moving boundary. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 1117-1123.	2.1	1
36	Powder Blending Equipment. , 2015, , 287-310.		1

#	ARTICLE	IF	CITATIONS
37	Equipment Qualification, Process and Cleaning Validation. , 2015, , 369-399.		0