

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 | Control of Batch and Continuous Crystallization Processes using Reinforcement Learning. <i>Computer Aided Chemical Engineering</i> , 2021, , 1371-1376. | 0.5 | 2 |
| 2 | Protein crystallisation with air bubble templates: case of gas-liquid-solid interfaces. <i>CrystEngComm</i> , 2021, 23, 8159-8168. | 2.6 | 15 |
| 3 | Solid-liquid axial dispersion performance of a mesoscale continuous oscillatory flow crystalliser with smooth periodic constrictions using a non-invasive dual backlit imaging technique. <i>Chemical Engineering Journal</i> , 2020, 382, 122862. | 12.7 | 11 |
| 4 | 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 |
| 5 | Insight into the large-scale upstream fermentation environment using scaled-down models. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 647-657. | 3.2 | 14 |
| 6 | The Role of Residence Time Distribution in the Continuous Steady-State Mixed Suspension Mixed Product Removal Crystallization of Glycine. <i>Crystal Growth and Design</i> , 2019, 19, 66-80. | 3.0 | 10 |
| 7 | 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 |
| 8 | 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 |
| 9 | The heat transfer characteristics of a mesoscale continuous oscillatory flow crystalliser with smooth periodic constrictions. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 1109-1119. | 4.8 | 14 |
| 10 | 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 |
| 11 | Characterisation of axial dispersion in a Meso-scale Oscillatory Baffled Crystalliser using a Numerical Approach. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 223-228. | 0.5 | 3 |
| 12 | Three-Way Coupling Simulation of a Gas-Liquid Stirred Tank using a Multi-Compartment Population Balance Model. <i>Chemical Product and Process Modeling</i> , 2016, 11, 205-216. | 0.9 | 11 |
| 13 | 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 |
| 14 | Powder Blending Equipment. , 2015, , 287-310. | | 1 |
| 15 | Equipment Qualification, Process and Cleaning Validation. , 2015, , 369-399. | | 0 |
| 16 | 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 |
| 17 | Simultaneous design and control framework for multi-segment multi-addition plug-flow crystallizer for anti-solvent crystallizations. , 2015, , . | | 2 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | Automated direct nucleation control for in situ dynamic fines removal in batch cooling crystallization. <i>CrystEngComm</i> , 2012, 14, 2196. | 2.6 | 84 |
| 22 | An experimental study of gas void fraction in dilute alcohol solutions in annular gap bubble columns using a four-point conductivity probe. <i>Chemical Engineering Science</i> , 2011, 66, 5739-5748. | 3.8 | 20 |
| 23 | PIV study of the flow field generated by a sawtooth impeller. <i>Chemical Engineering Science</i> , 2011, 66, 5374-5387. | 3.8 | 20 |
| 24 | Spray-freeze-drying of whey proteins at sub-atmospheric pressures. <i>Dairy Science and Technology</i> , 2010, 90, 321-334. | 2.2 | 88 |
| 25 | Destabilisation of homogeneous bubbly flow in an annular gap bubble column. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 482-490. | 1.7 | 20 |
| 26 | Application of Computational Fluid Dynamics (CFD) Simulations to Spray-Freezing Operations. <i>Drying Technology</i> , 2009, 28, 94-102. | 3.1 | 18 |
| 27 | 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 |
| 28 | 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 |
| 29 | Modelling of heavy and buoyant particle dispersion in a two-dimensional turbulent mixing layer. <i>Powder Technology</i> , 2007, 178, 151-165. | 4.2 | 12 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | Measurement of Particle Impact Frequencies and Velocities on Impeller Blades in a Mixing Tank. <i>Chemical Engineering Research and Design</i> , 2004, 82, 1237-1249. | 5.6 | 18 |
| 34 | 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 |
| 35 | Hydraulic Performance of an Annular Plunging Jet Reactor. <i>Chemical Engineering Research and Design</i> , 2002, 80, 543-549. | 5.6 | 6 |
| 36 | A particle's eye view of crystallizer fluid mechanics. <i>Chemical Engineering Science</i> , 2001, 56, 2475-2493. | 3.8 | 53 |

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|----|--|-----|-----------|
| 37 | 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 |