

Zoltan Nagy

List of Publications by Year in descending order

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125
papers

4,163
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117453

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132
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docs citations

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times ranked

2313
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Real-Time Monitoring of Powder Mass Flowrates for Plant-Wide Control of a Continuous Direct Compaction Tablet Manufacturing Process. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 69-81. | 1.6 | 4 |
| 2 | Small-Scale Continuous Drug Product Manufacturing using Dropwise Additive Manufacturing and Three Phase Settling for Integration with Upstream Drug Substance Production. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 2330-2340. | 1.6 | 5 |
| 3 | Optimization of Amorphization Kinetics during Hot Melt Extrusion by Particle Engineering: An Experimental and Computational Study. <i>Crystal Growth and Design</i> , 2022, 22, 821-841. | 1.4 | 6 |
| 4 | Digital Design of the Crystallization of an Active Pharmaceutical Ingredient Using a Population Balance Model with a Novel Size Dependent Growth Rate Expression. From Development of a Digital Twin to <i>In Silico</i> Optimization and Experimental Validation. <i>Crystal Growth and Design</i> , 2022, 22, 497-512. | 1.4 | 11 |
| 5 | A benchmark simulator for quality-by-design and quality-by-control studies in continuous pharmaceutical manufacturing â Intensified filtration-drying of crystallization slurries. <i>Computers and Chemical Engineering</i> , 2022, 163, 107809. | 2.0 | 10 |
| 6 | Steady-state target calculation integrating economic optimization for constrained model predictive control. <i>Computers and Chemical Engineering</i> , 2021, 145, 107145. | 2.0 | 11 |
| 7 | Modeling of pharmaceutical filtration and continuous integrated crystallization-filtration processes. <i>Chemical Engineering Journal</i> , 2021, 413, 127566. | 6.6 | 21 |
| 8 | Integrating virtual sample generation with input-training neural network for solving small sample size problems: application to purified terephthalic acid solvent system. <i>Soft Computing</i> , 2021, 25, 6489-6504. | 2.1 | 11 |
| 9 | Iterative model-based experimental design for spherical agglomeration processes. <i>AIChE Journal</i> , 2021, 67, e17178. | 1.8 | 10 |
| 10 | Integrated Continuous Pharmaceutical TechnologiesâA Review. <i>Organic Process Research and Development</i> , 2021, 25, 721-739. | 1.3 | 72 |
| 11 | Amorphous Solid Dispersions Containing Residual Crystallinity: Competition Between Dissolution and Matrix Crystallization. <i>AAPS Journal</i> , 2021, 23, 69. | 2.2 | 26 |
| 12 | Experimental Investigation of an Integrated Crystallization and Wet-Milling System with Temperature Cycling to Control the Size and Aspect Ratio of Needle-Shaped Pharmaceutical Crystals. <i>Crystal Growth and Design</i> , 2021, 21, 3981-3993. | 1.4 | 21 |
| 13 | Combination of PAT and mechanistic modeling tools in a fully continuous powder to granule line: Rapid and deep process understanding. <i>Powder Technology</i> , 2021, 388, 70-81. | 2.1 | 14 |
| 14 | Evaluation of a Combined MHE-NMPC Approach to Handle Plant-Model Mismatch in a Rotary Tablet Press. <i>Processes</i> , 2021, 9, 1612. | 1.3 | 12 |
| 15 | Modeling and analysis of MSMPR cascades involving nucleation, growth and agglomeration mechanisms with slurry recycling. <i>Chemical Engineering Research and Design</i> , 2021, 174, 42-56. | 2.7 | 8 |
| 16 | PharmaPy: An object-oriented tool for the development of hybrid pharmaceutical flowsheets. <i>Computers and Chemical Engineering</i> , 2021, 153, 107408. | 2.0 | 18 |
| 17 | Mathematical modeling and digital design of an intensified filtration-washing-drying unit for pharmaceutical continuous manufacturing. <i>Chemical Engineering Science</i> , 2021, 244, 116803. | 1.9 | 19 |
| 18 | Cross-Pharma Collaboration for the Development of a Simulation Tool for the Model-Based Digital Design of Pharmaceutical Crystallization Processes (CrySIV). <i>Crystal Growth and Design</i> , 2021, 21, 6448-6464. | 1.4 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Continuous <i>In Situ</i> Seed Generation through the Integration of a Mixed Suspension Mixed Product Removal and an Oscillatory Baffled Crystallizer for the Control of Crystal Size Distribution and Polymorphic Form. <i>Crystal Growth and Design</i> , 2021, 21, 6684-6696. | 1.4 | 6 |
| 20 | Polymorphic Control and Scale-up Strategy for Crystallization from a Ternary Antisolvent System by Supersaturation Control. <i>Crystal Growth and Design</i> , 2020, 20, 1337-1346. | 1.4 | 12 |
| 21 | Polymorphic Control and Scale-Up Strategy for Antisolvent Crystallization Using a Sequential Supersaturation and Direct Nucleation Control Approach. <i>Crystal Growth and Design</i> , 2020, 20, 5538-5550. | 1.4 | 10 |
| 22 | Risk-Based Operation of a Continuous Mixed-Suspension-Mixed-Product-Removal Antisolvent Crystallization Process for Polymorphic Control. <i>Organic Process Research and Development</i> , 2020, 24, 2840-2852. | 1.3 | 7 |
| 23 | Enabling Mechanical Separation of Enantiomers through Controlled Batchwise Concomitant Crystallization: Digital Design and Experimental Validation. <i>Crystal Growth and Design</i> , 2020, 20, 7726-7741. | 1.4 | 3 |
| 24 | A Novel Robust Digital Design of a Network of Industrial Continuous Cooling Crystallizers of Dextrose Monohydrate: From Laboratory Experiments to Industrial Application. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22231-22246. | 1.8 | 15 |
| 25 | Population Balance Model Development Verification and Validation of Cooling Crystallization of Carbamazepine. <i>Crystal Growth and Design</i> , 2020, 20, 5235-5250. | 1.4 | 18 |
| 26 | Novel semibatch supersaturation control approach for the cooling crystallization of heat-sensitive materials. <i>AIChE Journal</i> , 2020, 66, e16955. | 1.8 | 9 |
| 27 | Polymorphic Control and Scale-Up Strategy for Antisolvent Crystallization Using Direct Nucleation Control. <i>Crystal Growth and Design</i> , 2020, 20, 2683-2697. | 1.4 | 16 |
| 28 | Mathematical Modeling of Emulsion Solvent Diffusion for Spherical Crystallization: How To Deconvolute Primary Crystal Size Distribution from Agglomerate Size Distribution?. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6288-6300. | 1.8 | 7 |
| 29 | Continuous Spherical Crystallization of Lysozyme in an Oscillatory Baffled Crystallizer Using Emulsion Solvent Diffusion in Droplets. <i>Crystal Growth and Design</i> , 2020, 20, 934-947. | 1.4 | 20 |
| 30 | End-to-end continuous manufacturing of conventional compressed tablets: From flow synthesis to tableting through integrated crystallization and filtration. <i>International Journal of Pharmaceutics</i> , 2020, 581, 119297. | 2.6 | 42 |
| 31 | Application of Model-Free and Model-Based Quality-by-Control (QbC) for the Efficient Design of Pharmaceutical Crystallization Processes. <i>Crystal Growth and Design</i> , 2020, 20, 3979-3996. | 1.4 | 38 |
| 32 | Continuous Crystallization: Equipment and Operation. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2020, , 129-192. | 0.2 | 4 |
| 33 | Thermodynamic Polymorph Selection in Enantiotropic Systems Using Supersaturation-Controlled Batch and Semibatch Cooling Crystallization. <i>Crystal Growth and Design</i> , 2019, 19, 6715-6726. | 1.4 | 11 |
| 34 | Steady-State Data Reconciliation Framework for a Direct Continuous Tableting Line. <i>Journal of Pharmaceutical Innovation</i> , 2019, 14, 221-238. | 1.1 | 6 |
| 35 | Encrustation in Continuous Pharmaceutical Crystallization Processes—A Review. <i>Organic Process Research and Development</i> , 2019, 23, 1134-1142. | 1.3 | 29 |
| 36 | Sensor Network Robustness Using Model-Based Data Reconciliation for Continuous Tablet Manufacturing. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2599-2612. | 1.6 | 8 |

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|----|--|-----|-----------|
| 37 | Model-Based Optimization of Cooling Crystallization of Active Pharmaceutical Ingredients Undergoing Thermal Degradation. <i>Crystal Growth and Design</i> , 2019, 19, 3417-3429. | 1.4 | 25 |
| 38 | Data reconciliation in the Quality-by-Design (QbD) implementation of pharmaceutical continuous tablet manufacturing. <i>International Journal of Pharmaceutics</i> , 2019, 563, 259-272. | 2.6 | 26 |
| 39 | A comparative study of continuous operation between a dynamic baffle crystallizer and a stirred tank crystallizer. <i>Chemical Engineering Journal</i> , 2019, 367, 278-294. | 6.6 | 27 |
| 40 | Development of Continuous Filtration in a Novel Continuous Filtration Carousel Integrated with Continuous Crystallization. <i>Organic Process Research and Development</i> , 2019, 23, 2655-2665. | 1.3 | 30 |
| 41 | Economic optimization in transient processes for model predictive control with a dynamic reference trajectory. <i>Computers and Chemical Engineering</i> , 2019, 121, 224-231. | 2.0 | 0 |
| 42 | 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. | 1.4 | 10 |
| 43 | Further Understanding of Agglomeration Mechanisms in Spherical Crystallization Systems: Benzoic Acid Case Study. <i>Crystal Growth and Design</i> , 2019, 19, 1668-1679. | 1.4 | 31 |
| 44 | Piezoelectric-based high performance spray solvent delivery system for desorption electrospray ionization mass spectrometry: Systematic design and case studies for high throughput screening of N-alkylation reactions. <i>Chemical Engineering Science</i> , 2019, 195, 1010-1020. | 1.9 | 6 |
| 45 | Dropwise Additive Manufacturing of Pharmaceutical Products Using Particle Suspensions. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 914-928. | 1.6 | 10 |
| 46 | Experimental implementation of a Quality-by-Control (QbC) framework using a mechanistic PBM-based nonlinear model predictive control involving chord length distribution measurement for the batch cooling crystallization of L-ascorbic acid. <i>Chemical Engineering Science</i> , 2019, 195, 335-346. | 1.9 | 32 |
| 47 | Chord Length Distribution Based Modeling and Adaptive Model Predictive Control of Batch Crystallization Processes Using High Fidelity Full Population Balance Models. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 3320-3332. | 1.8 | 28 |
| 48 | Population Balance Modeling and Optimization of an Integrated Batch Crystallizer-Wet Mill System for Crystal Size Distribution Control. <i>Crystal Growth and Design</i> , 2018, 18, 1415-1424. | 1.4 | 24 |
| 49 | Raman Spectroscopy for Monitoring the Continuous Crystallization of Carbamazepine. <i>Organic Process Research and Development</i> , 2018, 22, 156-165. | 1.3 | 31 |
| 50 | A real-time optimization framework for the time-varying economic environment. <i>Computers and Chemical Engineering</i> , 2018, 115, 333-341. | 2.0 | 4 |
| 51 | A continuous multi-stage mixed-suspension mixed-product-removal crystallization system with fines dissolution. <i>Chemical Engineering Research and Design</i> , 2018, 135, 112-120. | 2.7 | 20 |
| 52 | Aspect Ratio Distribution and Chord Length Distribution Driven Modeling of Crystallization of Two-Dimensional Crystals for Real-Time Model-Based Applications. <i>Crystal Growth and Design</i> , 2018, 18, 5311-5321. | 1.4 | 26 |
| 53 | A high-throughput multi-microfluidic crystal generator (MMicroCryGen) platform for facile screening of polymorphism and crystal morphology for pharmaceutical compounds. <i>Lab on A Chip</i> , 2018, 18, 2235-2245. | 3.1 | 16 |
| 54 | Model-based analysis of stirred cooling crystallizer of high aspect ratio crystals with linear and nonlinear breakage. <i>Computers and Chemical Engineering</i> , 2017, 98, 180-196. | 2.0 | 31 |

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|----|---|-----|-----------|
| 55 | Solubility curves and nucleation rates from molecular dynamics for polymorph prediction – moving beyond lattice energy minimization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5285-5295. | 1.3 | 23 |
| 56 | Real-Time Image Processing Based Online Feedback Control System for Cooling Batch Crystallization. <i>Organic Process Research and Development</i> , 2017, 21, 511-519. | 1.3 | 48 |
| 57 | ON-OFF Feedback Control of Plug-Flow Crystallization: A Case of Quality-by-Control in Continuous Manufacturing. <i>IEEE Life Sciences Letters</i> , 2017, 3, 1-4. | 1.2 | 8 |
| 58 | Mass spectrometric directed system for the continuous-flow synthesis and purification of diphenhydramine. <i>Chemical Science</i> , 2017, 8, 4363-4370. | 3.7 | 30 |
| 59 | Process Analytical Tools To Control Polymorphism and Particle Size in Batch Crystallization Processes. <i>Organic Process Research and Development</i> , 2017, 21, 855-865. | 1.3 | 23 |
| 60 | Molecular Dynamics Electric Field Crystallization Simulations of Paracetamol Produce a New Polymorph. <i>Crystal Growth and Design</i> , 2017, 17, 3751-3765. | 1.4 | 23 |
| 61 | Dropwise additive manufacturing of pharmaceutical products for amorphous and self emulsifying drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2017, 524, 424-432. | 2.6 | 34 |
| 62 | Nanocrystal Dissolution Kinetics and Solubility Increase Prediction from Molecular Dynamics: The Case of α -, β -, and γ -Glycine. <i>Molecular Pharmaceutics</i> , 2017, 14, 1023-1032. | 2.3 | 18 |
| 63 | Investigation of the Evolution of Crystal Size and Shape during Temperature Cycling and in the Presence of a Polymeric Additive Using Combined Process Analytical Technologies. <i>Crystal Growth and Design</i> , 2017, 17, 1695-1706. | 1.4 | 40 |
| 64 | Application of feedback control and in situ milling to improve particle size and shape in the crystallization of a slow growing needle-like active pharmaceutical ingredient. <i>International Journal of Pharmaceutics</i> , 2017, 533, 49-61. | 2.6 | 31 |
| 65 | Application of X-Ray Sensors for In-line and Noninvasive Monitoring of Mass Flow Rate in Continuous Tablet Manufacturing. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3591-3603. | 1.6 | 16 |
| 66 | A Systematic Framework for Process Control Design and Risk Analysis in Continuous Pharmaceutical Solid-Dosage Manufacturing. <i>Journal of Pharmaceutical Innovation</i> , 2017, 12, 327-346. | 1.1 | 30 |
| 67 | Model-Based Evaluation of Direct Nucleation Control Approaches for the Continuous Cooling Crystallization of Paracetamol in a Mixed Suspension Mixed Product Removal System. <i>Crystal Growth and Design</i> , 2017, 17, 5377-5383. | 1.4 | 18 |
| 68 | Real-time feasible multi-objective optimization based nonlinear model predictive control of particle size and shape in a batch crystallization process. <i>Control Engineering Practice</i> , 2017, 69, 1-8. | 3.2 | 20 |
| 69 | Process Intensification through Continuous Spherical Crystallization Using an Oscillatory Flow Baffled Crystallizer. <i>Crystal Growth and Design</i> , 2017, 17, 4776-4784. | 1.4 | 47 |
| 70 | Preparation of Microcrystals of Piroxicam Monohydrate by Antisolvent Precipitation via Microfabricated Metallic Membranes with Ordered Pore Arrays. <i>Crystal Growth and Design</i> , 2017, 17, 6692-6702. | 1.4 | 11 |
| 71 | Modeling and Characterization of an in Situ Wet Mill Operation. <i>Organic Process Research and Development</i> , 2017, 21, 1069-1079. | 1.3 | 27 |
| 72 | Mathematical modelling and experimental validation of a novel periodic flow crystallization using MSMR crystallizers. <i>AIChE Journal</i> , 2017, 63, 1313-1327. | 1.8 | 38 |

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|----|---|-----|-----------|
| 73 | Real-time monitoring of the mechanism of ibuprofen-cationic dextran crystal formation using crystallization process informatics system (CryPRINS). <i>International Journal of Pharmaceutics</i> , 2016, 509, 264-278. | 2.6 | 25 |
| 74 | 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. | 0.5 | 11 |
| 75 | Tuning Crystal Morphology of Succinic Acid Using a Polymer Additive. <i>Crystal Growth and Design</i> , 2016, 16, 4349-4359. | 1.4 | 79 |
| 76 | Application of Wet Milling-Based Automated Direct Nucleation Control in Continuous Cooling Crystallization Processes. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4987-4996. | 1.8 | 49 |
| 77 | Encapsulation and Controlled Release of Rapamycin from Polycaprolactone Nanoparticles Prepared by Membrane Micromixing Combined with Antisolvent Precipitation. <i>Langmuir</i> , 2016, 32, 10685-10693. | 1.6 | 25 |
| 78 | Evaluation of mixed suspension mixed product removal crystallization processes coupled with a continuous filtration system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 108, 212-219. | 1.8 | 47 |
| 79 | Application of Ultra-Performance Liquid Chromatography as an Online Process Analytical Technology Tool in Pharmaceutical Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 7074-7082. | 1.4 | 23 |
| 80 | Multi-Impurity Adsorption Model for Modeling Crystal Purity and Shape Evolution during Crystallization Processes in Impure Media. <i>Crystal Growth and Design</i> , 2016, 16, 555-568. | 1.4 | 47 |
| 81 | Analysis of the crystallization process of a biopharmaceutical compound in the presence of impurities using process analytical technology (PAT) tools. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1461-1470. | 1.6 | 19 |
| 82 | Fabrication of composite poly(D,L-lactide)/montmorillonite nanoparticles for controlled delivery of acetaminophen by solvent-displacement method using glass capillary microfluidics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 141, 187-195. | 2.5 | 27 |
| 83 | 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. | 1.3 | 46 |
| 84 | Drop-on-Demand System for Manufacturing of Melt-based Solid Oral Dosage: Effect of Critical Process Parameters on Product Quality. <i>AAPS PharmSciTech</i> , 2016, 17, 284-293. | 1.5 | 12 |
| 85 | Graphical Processing Unit (GPU) Accelerated Solution of Multi-Dimensional Population Balances Using High Resolution Finite Volume Algorithm. <i>Computer Aided Chemical Engineering</i> , 2015, 37, 947-952. | 0.3 | 1 |
| 86 | Numerical analysis of crystallization of high aspect ratio crystals with breakage. <i>Powder Technology</i> , 2015, 283, 152-162. | 2.1 | 16 |
| 87 | Combined Cooling and Antisolvent Crystallization in Continuous Mixed Suspension, Mixed Product Removal Cascade Crystallizers: Steady-State and Startup Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5673-5682. | 1.8 | 67 |
| 88 | Advanced control approaches for combined cooling/antisolvent crystallization in continuous mixed suspension mixed product removal cascade crystallizers. <i>Chemical Engineering Science</i> , 2015, 127, 362-373. | 1.9 | 59 |
| 89 | Dynamic Modeling of Encrust Formation and Mitigation Strategy in a Continuous Plug Flow Crystallizer. <i>Crystal Growth and Design</i> , 2015, 15, 1129-1140. | 1.4 | 40 |
| 90 | Multiobjective Optimization of an Unseeded Batch Cooling Crystallizer for Shape and Size Manipulation. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2156-2166. | 1.8 | 42 |

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|-----|---|-----|-----------|
| 91 | Application of Process Analytical Technology-Based Feedback Control Strategies To Improve Purity and Size Distribution in Biopharmaceutical Crystallization. <i>Crystal Growth and Design</i> , 2015, 15, 2908-2919. | 1.4 | 59 |
| 92 | Modeling Crystallization from Solution with Heat Effects. <i>Crystal Growth and Design</i> , 2015, 15, 5726-5737. | 1.4 | 3 |
| 93 | Process Intensification through Continuous Spherical Crystallization Using a Two-Stage Mixed Suspension Mixed Product Removal (MSMPR) System. <i>Crystal Growth and Design</i> , 2015, 15, 4225-4236. | 1.4 | 81 |
| 94 | Simultaneous design and control framework for multi-segment multi-addition plug-flow crystallizer for anti-solvent crystallizations. , 2015, , . | | 2 |
| 95 | Anti-Fouling Control of Plug-Flow Crystallization via Heating and Cooling Cycle. <i>IFAC-PapersOnLine</i> , 2015, 48, 193-198. | 0.5 | 24 |
| 96 | Toward Continuous Crystallization of Urea-Barbituric Acid: A Polymorphic Co-Crystal System. <i>Crystal Growth and Design</i> , 2015, 15, 4821-4836. | 1.4 | 45 |
| 97 | 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. | 1.3 | 43 |
| 98 | Automated Direct Nucleation Control in Continuous Mixed Suspension Mixed Product Removal Cooling Crystallization. <i>Crystal Growth and Design</i> , 2015, 15, 5839-5848. | 1.4 | 53 |
| 99 | Integrated Upstream and Downstream Application of Wet Milling with Continuous Mixed Suspension Mixed Product Removal Crystallization. <i>Crystal Growth and Design</i> , 2015, 15, 5879-5885. | 1.4 | 65 |
| 100 | Reaction precipitation of amorphous calcium phosphate: Population balance modelling and kinetics. <i>Chemical Engineering Research and Design</i> , 2015, 93, 278-286. | 2.7 | 23 |
| 101 | Characterisation of high 1,3-di-stearoyl-2-oleoyl-glycerol content stearins produced by acidolysis of high oleic sunflower oil with stearic and palmitic acids. <i>European Journal of Lipid Science and Technology</i> , 2014, 116, 532-547. | 1.0 | 11 |
| 102 | Intelligent Process Management for Continuous Operations in Pharmaceutical Manufacturing. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 391-396. | 0.3 | 10 |
| 103 | The impact of different preparation modes on enhancing the undergraduate process control engineering laboratory: A comparative study. <i>Computer Applications in Engineering Education</i> , 2014, 22, 110-119. | 2.2 | 14 |
| 104 | Raman, UV, NIR, and Mid-IR Spectroscopy with Focused Beam Reflectance Measurement in Monitoring Polymorphic Transformations. <i>Chemical Engineering and Technology</i> , 2014, 37, 1305-1313. | 0.9 | 31 |
| 105 | Systematic classification of unseeded batch crystallization systems for achievable shape and size analysis. <i>Journal of Crystal Growth</i> , 2014, 394, 97-105. | 0.7 | 35 |
| 106 | Model-Based Systematic Design and Analysis Approach for Unseeded Combined Cooling and Antisolvent Crystallization (CCAC) Systems. <i>Crystal Growth and Design</i> , 2014, 14, 687-698. | 1.4 | 45 |
| 107 | Developing the TriLab, a triple access mode (hands-on, virtual, remote) laboratory, of a process control rig using LabVIEW and Joomla. <i>Computer Applications in Engineering Education</i> , 2013, 21, 614-626. | 2.2 | 44 |
| 108 | Effects of a structurally related substance on the crystallization of paracetamol. <i>Frontiers of Chemical Science and Engineering</i> , 2013, 7, 79-87. | 2.3 | 30 |

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|-----|---|-----|-----------|
| 109 | Fines removal in a continuous plug flow crystallizer by optimal spatial temperature profiles with controlled dissolution. <i>AIChE Journal</i> , 2013, 59, 4582-4594. | 1.8 | 54 |
| 110 | Crystallization and polymorphic behavior of shea stearin and the effect of removal of polar components. <i>European Journal of Lipid Science and Technology</i> , 2013, 115, 1094-1106. | 1.0 | 22 |
| 111 | Nonlinear Model-Based Control of a Semi-Industrial Batch Crystallizer Using a Population Balance Modeling Framework. <i>IEEE Transactions on Control Systems Technology</i> , 2012, 20, 1188-1201. | 3.2 | 54 |
| 112 | Automated direct nucleation control for in situ dynamic fines removal in batch cooling crystallization. <i>CrystEngComm</i> , 2012, 14, 2196. | 1.3 | 84 |
| 113 | Advances and New Directions in Crystallization Control. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2012, 3, 55-75. | 3.3 | 260 |
| 114 | Automatic differentiation-based quadrature method of moments for solving population balance equations. <i>AIChE Journal</i> , 2012, 58, 842-854. | 1.8 | 22 |
| 115 | Real-time control of a semi-industrial fed-batch evaporative crystallizer using different direct optimization strategies. <i>AIChE Journal</i> , 2011, 57, 1557-1569. | 1.8 | 44 |
| 116 | Kinetic Modelling of the Fenton-Like Oxidation of Maleic Acid Using a Heterogeneous Modified Polyacrylonitrile (Pan) Catalyst. <i>Progress in Reaction Kinetics and Mechanism</i> , 2011, 36, 189-214. | 1.1 | 7 |
| 117 | Distributional uncertainty analysis using polynomial chaos expansions. , 2010, , . | | 10 |
| 118 | Guest editorial "computer-aided process engineering. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 843-844. | 0.8 | 0 |
| 119 | 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. | 1.3 | 90 |
| 120 | Endoscopy-Based in Situ Bulk Video Imaging of Batch Crystallization Processes. <i>Organic Process Research and Development</i> , 2009, 13, 1254-1261. | 1.3 | 69 |
| 121 | Determination of the Kinetic Parameters for the Crystallization of Paracetamol from Water Using Metastable Zone Width Experiments. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1245-1252. | 1.8 | 135 |
| 122 | A nonlinear model predictive control approach for robust end-point property control of a thin-film deposition process. <i>International Journal of Robust and Nonlinear Control</i> , 2007, 17, 1600-1613. | 2.1 | 15 |
| 123 | Nonlinear model predictive control of a four tank system: An experimental stability study. , 2006, , . | | 32 |
| 124 | Real-time optimization and nonlinear model predictive control of processes governed by differential-algebraic equations. <i>Journal of Process Control</i> , 2002, 12, 577-585. | 1.7 | 573 |
| 125 | Nonlinear model predictive control of a four tank system: An experimental stability study. , 0, . | | 29 |