

Marianthi G Ierapetritou

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

253
papers

7,372
citations

48
h-index

70
g-index

261
ext. papers

8,444
ext. citations

3.7
avg, IF

6.76
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 253 | Ambient-pressure lignin valorization to high-performance polymers by intensified reductive catalytic deconstruction.. <i>Science Advances</i> , 2022 , 8, eabj7523 | 14.3 | 4 |
| 252 | Developing process models of an open-loop integrated system 2022 , 229-250 | | |
| 251 | Integrating tactical planning, operational planning and scheduling using data-driven feasibility analysis. <i>Computers and Chemical Engineering</i> , 2022 , 161, 107759 | 4 | 0 |
| 250 | Using residence time distribution in pharmaceutical solid dose manufacturing - A critical review. <i>International Journal of Pharmaceutics</i> , 2021 , 610, 121248 | 6.5 | 2 |
| 249 | A novel framework of surrogate-based feasibility analysis for establishing design space of twin-column continuous chromatography. <i>International Journal of Pharmaceutics</i> , 2021 , 609, 121161 | 6.5 | 1 |
| 248 | Techno-economic and Life Cycle Analysis of MixAlco [®] Processes for Mixed Alcohol Production from Brown Algae. <i>Applied Biochemistry and Biotechnology</i> , 2021 , 193, 2964-2982 | 3.2 | |
| 247 | Hybrid multi-zonal compartment modeling for continuous powder blending processes. <i>International Journal of Pharmaceutics</i> , 2021 , 602, 120643 | 6.5 | 3 |
| 246 | Modular supply chain optimization considering demand uncertainty to manage risk. <i>AICHE Journal</i> , 2021 , 67, e17367 | 3.6 | 2 |
| 245 | Improving Feedability of Highly Adhesive Active Pharmaceutical Ingredients by Silication. <i>Journal of Pharmaceutical Innovation</i> , 2021 , 16, 279-292 | 1.8 | 4 |
| 244 | 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 | 6.5 | 6 |
| 243 | A framework for supply chain optimization for modular manufacturing with production feasibility analysis. <i>Computers and Chemical Engineering</i> , 2021 , 145, 107175 | 4 | 10 |
| 242 | One-step lignocellulose depolymerization and saccharification to high sugar yield and less condensed isolated lignin. <i>Green Chemistry</i> , 2021 , 23, 1200-1211 | 10 | 8 |
| 241 | A novel adaptive sampling based methodology for feasible region identification of compute intensive models using artificial neural network. <i>AICHE Journal</i> , 2021 , 67, e17095 | 3.6 | 2 |
| 240 | Multi-zonal compartmentalization methodology for surrogate modelling in continuous pharmaceutical manufacturing. <i>Computer Aided Chemical Engineering</i> , 2021 , 50, 725-731 | 0.6 | 1 |
| 239 | mAb Production Modeling and Design Space Evaluation Including Glycosylation Process. <i>Processes</i> , 2021 , 9, 324 | 2.9 | 7 |
| 238 | Multiobjective Modular Biorefinery Configuration under Uncertainty. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12956-12969 | 3.9 | 3 |
| 237 | 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 | 6.5 | |

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| 236 | Cost and energy efficient cyclic separation of 5-hydroxymethyl furfural from an aqueous solution. <i>Green Chemistry</i> , 2021 , 23, 4008-4023 | 10 | 3 |
| 235 | The Future is Garbage: Repurposing of Food Waste to an Integrated Biorefinery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8124-8136 | 8.3 | 20 |
| 234 | A review of existing mixing indices in solid-based continuous blending operations. <i>Powder Technology</i> , 2020 , 373, 195-209 | 5.2 | 18 |
| 233 | Modular Design Optimization using Machine Learning-based Flexibility Analysis. <i>Journal of Process Control</i> , 2020 , 90, 18-34 | 3.9 | 11 |
| 232 | Integration of planning, scheduling and control problems using data-driven feasibility analysis and surrogate models. <i>Computers and Chemical Engineering</i> , 2020 , 134, 106714 | 4 | 11 |
| 231 | 110th Anniversary: Integration of Scheduling and Robust Model Predictive Control. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 265-280 | 3.9 | 3 |
| 230 | Efficient Data-based Methodology for Model enhancement and Flowsheet analyses for Continuous Pharmaceutical Manufacturing. <i>Computer Aided Chemical Engineering</i> , 2020 , 48, 127-132 | 0.6 | 2 |
| 229 | 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 | 6.5 | 5 |
| 228 | Discrete element modeling for continuous powder feeding operation: Calibration and system analysis. <i>International Journal of Pharmaceutics</i> , 2020 , 585, 119427 | 6.5 | 13 |
| 227 | A framework of hybrid model development with identification of plant-model mismatch. <i>AIChE Journal</i> , 2020 , 66, e16996 | 3.6 | 13 |
| 226 | Digital Twins in Pharmaceutical and Biopharmaceutical Manufacturing: A Literature Review. <i>Processes</i> , 2020 , 8, 1088 | 2.9 | 38 |
| 225 | Comparison between Different Hybrid Life Cycle Assessment Methodologies: A Review and Case Study of Biomass-based p-Xylene Production. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22313-22329 | 3.9 | 3 |
| 224 | A Computationally Efficient Surrogate-Based Reduction of a Multiscale Comill Process Model. <i>Journal of Pharmaceutical Innovation</i> , 2020 , 15, 424-444 | 1.8 | 7 |
| 223 | A discontinuous derivative-free optimization framework for multi-enterprise supply chain. <i>Optimization Letters</i> , 2020 , 14, 959-988 | 1.1 | 3 |
| 222 | Comparison between Batch and Continuous Monoclonal Antibody Production and Economic Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5851-5863 | 3.9 | 29 |
| 221 | Renewable lubricants with tailored molecular architecture. <i>Science Advances</i> , 2019 , 5, eaav5487 | 14.3 | 30 |
| 220 | Design space maintenance by online model adaptation in pharmaceutical manufacturing. <i>Computers and Chemical Engineering</i> , 2019 , 127, 254-271 | 4 | 11 |
| 219 | Biomass-based chemical production using techno-economic and life cycle analysis. <i>AIChE Journal</i> , 2019 , 65, e16660 | 3.6 | 14 |

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| 218 | 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 | 2.9 | 28 |
| 217 | Data-driven feasibility analysis for the integration of planning and scheduling problems. <i>Optimization and Engineering</i> , 2019 , 20, 1029-1066 | 2.1 | 10 |
| 216 | Real-time design space description in pharmaceutical manufacturing. <i>Computer Aided Chemical Engineering</i> , 2019 , 46, 661-666 | 0.6 | |
| 215 | Discrete Element Modeling (DEM) Parametric Study of Feeder Unit in Continuous Pharmaceutical Industry. <i>Computer Aided Chemical Engineering</i> , 2019 , 341-346 | 0.6 | 5 |
| 214 | Effect of material properties on the residence time distribution (RTD) characterization of powder blending unit operations. Part II of II: Application of models. <i>Powder Technology</i> , 2019 , 344, 525-544 | 5.2 | 23 |
| 213 | Optimal operation and control of intensified processes [challenges and opportunities. <i>Current Opinion in Chemical Engineering</i> , 2019 , 25, 82-86 | 5.4 | 16 |
| 212 | Effect of tracer material properties on the residence time distribution (RTD) of continuous powder blending operations. Part I of II: Experimental evaluation. <i>Powder Technology</i> , 2019 , 342, 744-763 | 5.2 | 33 |
| 211 | Combined Feedforward/Feedback Control of an Integrated Continuous Granulation Process. <i>Journal of Pharmaceutical Innovation</i> , 2019 , 14, 259-285 | 1.8 | 7 |
| 210 | Techno-economic and life cycle analysis of different types of hydrolysis process for the production of p-Xylene. <i>Computers and Chemical Engineering</i> , 2019 , 121, 685-695 | 4 | 18 |
| 209 | Economic Analysis of Batch and Continuous Biopharmaceutical Antibody Production: A Review. <i>Journal of Pharmaceutical Innovation</i> , 2019 , 14, 1-19 | 1.8 | 27 |
| 208 | Surrogate-based feasibility analysis for black-box stochastic simulations with heteroscedastic noise. <i>Journal of Global Optimization</i> , 2018 , 71, 957-985 | 1.5 | 5 |
| 207 | A simulation-based optimization framework for integrating scheduling and model predictive control, and its application to air separation units. <i>Computers and Chemical Engineering</i> , 2018 , 113, 139-151 | 4.1 | 47 |
| 206 | A multiscale DEM-PBM approach for a continuous comilling process using a mechanistically developed breakage kernel. <i>Chemical Engineering Science</i> , 2018 , 178, 211-221 | 4.4 | 23 |
| 205 | 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 | 6.5 | 22 |
| 204 | Advances in surrogate based modeling, feasibility analysis, and optimization: A review. <i>Computers and Chemical Engineering</i> , 2018 , 108, 250-267 | 4 | 247 |
| 203 | Model development and prediction of particle size distribution, density and friability of a comilling operation in a continuous pharmaceutical manufacturing process. <i>International Journal of Pharmaceutics</i> , 2018 , 549, 271-282 | 6.5 | 17 |
| 202 | Constrained optimization of black-box stochastic systems using a novel feasibility enhanced Kriging-based method. <i>Computers and Chemical Engineering</i> , 2018 , 118, 210-223 | 4 | 15 |
| 201 | A Systematic Framework for Data Management and Integration in a Continuous Pharmaceutical Manufacturing Processing Line. <i>Processes</i> , 2018 , 6, 53 | 2.9 | 10 |

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| 200 | Using a material property library to find surrogate materials for pharmaceutical process development. <i>Powder Technology</i> , 2018 , 339, 659-676 | 5.2 | 25 |
| 199 | Dimensionality reduction in feasibility analysis by latent variable modeling. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1477-1482 | 0.6 | |
| 198 | HPC enabled parallel, multi-scale & mechanistic model for high shear granulation using a coupled DEM-PBM framework. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 1459-1464 | 0.6 | |
| 197 | A parallel unidirectional coupled DEM-PBM model for the efficient simulation of computationally intensive particulate process systems. <i>Computers and Chemical Engineering</i> , 2018 , 119, 128-142 | 4 | 5 |
| 196 | A Framework for the Development of Integrated and Computationally Feasible Models of Large-Scale Mammalian Cell Bioreactors. <i>Processes</i> , 2018 , 6, 82 | 2.9 | 3 |
| 195 | A novel and systematic approach to identify the design space of pharmaceutical processes. <i>Computers and Chemical Engineering</i> , 2018 , 115, 309-322 | 4 | 14 |
| 194 | Discrete Element Modeling (DEM) for mixing of cohesive solids in rotating cylinders. <i>Powder Technology</i> , 2018 , 335, 124-136 | 5.2 | 22 |
| 193 | A novel feasibility analysis method for black-box processes using a radial basis function adaptive sampling approach. <i>AIChE Journal</i> , 2017 , 63, 532-550 | 3.6 | 38 |
| 192 | Process analysis and optimization of continuous pharmaceutical manufacturing using flowsheet models. <i>Computers and Chemical Engineering</i> , 2017 , 107, 77-91 | 4 | 56 |
| 191 | Advanced Model Predictive Feedforward/Feedback Control of a Tablet Press. <i>Journal of Pharmaceutical Innovation</i> , 2017 , 12, 110-123 | 1.8 | 15 |
| 190 | From process control to supply chain management: An overview of integrated decision making strategies. <i>Computers and Chemical Engineering</i> , 2017 , 106, 826-835 | 4 | 53 |
| 189 | Process Intensification for Cellulosic Biorefineries. <i>ChemSusChem</i> , 2017 , 10, 2566-2572 | 8.3 | 25 |
| 188 | Integrated modeling to capture the interaction of physiology and fluid dynamics in biopharmaceutical bioreactors. <i>Computers and Chemical Engineering</i> , 2017 , 97, 271-282 | 4 | 7 |
| 187 | Surrogate-based Optimization for Pharmaceutical Manufacturing Processes. <i>Computer Aided Chemical Engineering</i> , 2017 , 2797-2802 | 0.6 | 4 |
| 186 | A Novel Surrogate-Based Optimization Method for Black-Box Simulation with Heteroscedastic Noise. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10720-10732 | 3.9 | 11 |
| 185 | Methods and Tools for Design Space Identification in Pharmaceutical Development 2017 , 95-123 | | 2 |
| 184 | Design of an Integrated Continuous Manufacturing System 2017 , 405-446 | | 6 |
| 183 | Process Simulation and Control for Continuous Pharmaceutical Manufacturing of Solid Drug Products 2017 , 33-105 | | 4 |

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| 182 | Review of the important challenges and opportunities related to modeling of mammalian cell bioreactors. <i>AIChE Journal</i> , 2017 , 63, 398-408 | 3.6 | 8 |
| 181 | Process flowsheet optimization of chemicals production from biomass derived glucose solutions. <i>Computers and Chemical Engineering</i> , 2017 , 102, 258-267 | 4 | 11 |
| 180 | Integrated model of refining and petrochemical plant for enterprise-wide optimization. <i>Computers and Chemical Engineering</i> , 2017 , 97, 194-207 | 4 | 21 |
| 179 | Near infrared spectroscopic calibration models for real time monitoring of powder density. <i>International Journal of Pharmaceutics</i> , 2016 , 512, 61-74 | 6.5 | 42 |
| 178 | Integration of scheduling and control under uncertainties: Review and challenges. <i>Chemical Engineering Research and Design</i> , 2016 , 116, 98-113 | 5.5 | 55 |
| 177 | A Decomposition Approach for the Solution of Scheduling Including Process Dynamics of Continuous Processes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1266-1280 | 3.9 | 16 |
| 176 | Production planning optimization of an ethylene plant considering process operation and energy utilization. <i>Computers and Chemical Engineering</i> , 2016 , 87, 1-12 | 4 | 26 |
| 175 | Burn trauma disrupts circadian rhythms in rat liver. <i>International Journal of Burns and Trauma</i> , 2016 , 6, 12-25 | 0.4 | 2 |
| 174 | A Systematic Framework for the Design and Implementation of Sensing and Control Architecture for a Continuous Pharmaceutical Manufacturing Plant. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 1473-1478 | 0.6 | 1 |
| 173 | Perspectives on the continuous manufacturing of powder-based pharmaceutical processes. <i>AIChE Journal</i> , 2016 , 62, 1846-1862 | 3.6 | 100 |
| 172 | Multienterprise supply chain: Simulation and optimization. <i>AIChE Journal</i> , 2016 , 62, 3392-3403 | 3.6 | 9 |
| 171 | Feasibility and flexibility analysis of black-box processes Part 1: Surrogate-based feasibility analysis. <i>Chemical Engineering Science</i> , 2015 , 137, 986-1004 | 4.4 | 29 |
| 170 | Challenges and opportunities in modeling pharmaceutical manufacturing processes. <i>Computers and Chemical Engineering</i> , 2015 , 81, 32-39 | 4 | 40 |
| 169 | Lagrangian decomposition approach to scheduling large-scale refinery operations. <i>Computers and Chemical Engineering</i> , 2015 , 79, 1-29 | 4 | 9 |
| 168 | Real time monitoring of powder blend bulk density for coupled feed-forward/feed-back control of a continuous direct compaction tablet manufacturing process. <i>International Journal of Pharmaceutics</i> , 2015 , 495, 612-625 | 6.5 | 58 |
| 167 | Plant-Wide Control of a Continuous Tablet Manufacturing for Quality-By-Design Based Pharmaceutical Manufacturing. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 2183-2188 | 0.6 | 3 |
| 166 | Efficient Decomposition Approach for Large-Scale Refinery Scheduling. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9964-9991 | 3.9 | 6 |
| 165 | Feasibility and flexibility analysis of black-box processes part 2: Surrogate-based flexibility analysis. <i>Chemical Engineering Science</i> , 2015 , 137, 1005-1013 | 4.4 | 25 |

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| 164 | An integrated framework for scheduling and control using fast model predictive control. <i>AICHE Journal</i> , 2015 , 61, 3304-3319 | 3.6 | 30 |
| 163 | Flexibility assessment and risk management in supply chains. <i>AICHE Journal</i> , 2015 , 61, 4166-4178 | 3.6 | 15 |
| 162 | Phthalic anhydride production from hemicellulose solutions: Technoeconomic analysis and life cycle assessment. <i>AICHE Journal</i> , 2015 , 61, 3708-3718 | 3.6 | 9 |
| 161 | A Combined Feed-Forward/Feed-Back Control System for a QbD-Based Continuous Tablet Manufacturing Process. <i>Processes</i> , 2015 , 3, 339-356 | 2.9 | 34 |
| 160 | Modeling and Optimization of Continuous Pharmaceutical Manufacturing Processes. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 85-92 | 0.6 | 3 |
| 159 | Integrated Moving Horizon-Based Dynamic Real-Time Optimization and Hybrid MPC-PID Control of a Direct Compaction Continuous Tablet Manufacturing Process. <i>Journal of Pharmaceutical Innovation</i> , 2015 , 10, 233-253 | 1.8 | 22 |
| 158 | Life Cycle Assessment of Biobased p-Xylene Production. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 2366-2378 | 3.9 | 26 |
| 157 | Closed-Loop Feedback Control of a Continuous Pharmaceutical Tablet Manufacturing Process via Wet Granulation. <i>Journal of Pharmaceutical Innovation</i> , 2014 , 9, 16-37 | 1.8 | 47 |
| 156 | Discrete element reduced-order modeling of dynamic particulate systems. <i>AICHE Journal</i> , 2014 , 60, 3184-3194 | 3.1 | 26 |
| 155 | Alternative Approaches for p-Xylene Production from Starch: Techno-Economic Analysis. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10688-10699 | 3.9 | 46 |
| 154 | Reactive Flow Simulation Based on the Integration of Automated Mechanism Generation and On-the-Fly Reduction. <i>Energy & Fuels</i> , 2014 , 28, 4801-4811 | 4.1 | 5 |
| 153 | Hybrid Simulation Based Optimization Framework for Centralized and Decentralized Supply Chains. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3996-4007 | 3.9 | 12 |
| 152 | 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 | 6.5 | 73 |
| 151 | Integration of scheduling and control for batch processes using multi-parametric model predictive control. <i>AICHE Journal</i> , 2014 , 60, 3169-3183 | 3.6 | 57 |
| 150 | Synchronous and asynchronous decision making strategies in supply chains. <i>Computers and Chemical Engineering</i> , 2014 , 71, 116-129 | 4 | 6 |
| 149 | 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 | 4 | 73 |
| 148 | Derivative-free optimization for expensive constrained problems using a novel expected improvement objective function. <i>AICHE Journal</i> , 2014 , 60, 2462-2474 | 3.6 | 42 |
| 147 | Modeling and Optimization of Refinery Operations Considering Uncertainty 2014 , 219-235 | | |

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| 146 | An Integrated Approach to Simulation of Pharmaceutical Processes for Solid Drug Manufacture. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 5128-5147 | 3.9 | 36 |
| 145 | Aromatics from Lignocellulosic Biomass: Economic Analysis of the Production of p-Xylene from 5-Hydroxymethylfurfural. <i>AIChE Journal</i> , 2013 , 59, 2079-2087 | 3.6 | 52 |
| 144 | Surrogate-Based Optimization of Expensive Flowsheet Modeling for Continuous Pharmaceutical Manufacturing. <i>Journal of Pharmaceutical Innovation</i> , 2013 , 8, 131-145 | 1.8 | 59 |
| 143 | Improving Continuous Powder Blending Performance Using Projection to Latent Structures Regression. <i>Journal of Pharmaceutical Innovation</i> , 2013 , 8, 99-110 | 1.8 | 6 |
| 142 | Reduced-order discrete element method modeling. <i>Chemical Engineering Science</i> , 2013 , 95, 12-26 | 4.4 | 37 |
| 141 | Scale-up strategy for continuous powder blending process. <i>Powder Technology</i> , 2013 , 235, 55-69 | 5.2 | 18 |
| 140 | Measurement of residence time distribution in a rotary calciner. <i>AIChE Journal</i> , 2013 , 59, 4068-4076 | 3.6 | 25 |
| 139 | Flowsheet optimization of an integrated continuous purification-processing pharmaceutical manufacturing operation. <i>Chemical Engineering Science</i> , 2013 , 102, 56-66 | 4.4 | 39 |
| 138 | Speed-up Benders decomposition using maximum density cut (MDC) generation. <i>Annals of Operations Research</i> , 2013 , 210, 101-123 | 3.2 | 22 |
| 137 | Simulation and economic analysis of 5-hydroxymethylfurfural conversion to 2,5-furandicarboxylic acid. <i>Computers and Chemical Engineering</i> , 2013 , 52, 26-34 | 4 | 44 |
| 136 | Use of genomic data in risk assessment case study: II. Evaluation of the dibutyl phthalate toxicogenomic data set. <i>Toxicology and Applied Pharmacology</i> , 2013 , 271, 349-62 | 4.6 | 32 |
| 135 | Pathway modeling of microarray data: a case study of pathway activity changes in the testis following in utero exposure to dibutyl phthalate (DBP). <i>Toxicology and Applied Pharmacology</i> , 2013 , 271, 386-94 | 4.6 | 13 |
| 134 | Computer-Aided Flowsheet Simulation of a Pharmaceutical Tablet Manufacturing Process Incorporating Wet Granulation. <i>Journal of Pharmaceutical Innovation</i> , 2013 , 8, 11-27 | 1.8 | 51 |
| 133 | A hybrid kinetic mechanism reduction scheme based on the on-the-fly reduction and quasi-steady-state approximation. <i>Chemical Engineering Science</i> , 2013 , 93, 150-162 | 4.4 | 9 |
| 132 | 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, 1164-82 | 5.7 | 78 |
| 131 | Determination of the Confidence Interval of the Relative Standard Deviation Using Convolution. <i>Journal of Pharmaceutical Innovation</i> , 2013 , 8, 72-82 | 1.8 | 16 |
| 130 | Supply chain management using an optimization driven simulation approach. <i>AIChE Journal</i> , 2013 , 59, 4612-4626 | 3.6 | 27 |
| 129 | Branched-chain amino acid supplementation: impact on signaling and relevance to critical illness. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013 , 5, 449-460 | 6.6 | 37 |

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| 128 | Effect of fasting on the metabolic response of liver to experimental burn injury. <i>PLoS ONE</i> , 2013 , 8, e54825 | 3.7 | 4 |
| 127 | Modeling of Particulate Processes for the Continuous Manufacture of Solid-Based Pharmaceutical Dosage Forms. <i>Processes</i> , 2013 , 1, 67-127 | 2.9 | 64 |
| 126 | Impact of burn priming on immune and metabolic functions of whole Liver in a rat cecal ligation and puncture model. <i>International Journal of Burns and Trauma</i> , 2013 , 3, 55-65 | 0.4 | 7 |
| 125 | Hybrid advanced control of flexible multipurpose continuous tablet manufacturing process via direct compaction. <i>Computer Aided Chemical Engineering</i> , 2013 , 32, 757-762 | 0.6 | 3 |
| 124 | A review of the Residence Time Distribution (RTD) applications in solid unit operations. <i>Powder Technology</i> , 2012 , 228, 416-423 | 5.2 | 138 |
| 123 | Computational Approaches for Studying the Granular Dynamics of Continuous Blending Processes, 2 Population Balance and Data-Based Methods. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 9-19 | 3.9 | 38 |
| 122 | Periodic section modeling of convective continuous powder mixing processes. <i>AIChE Journal</i> , 2012 , 58, 69-78 | 3.6 | 27 |
| 121 | Exploring flux representations of complex kinetics networks. <i>AIChE Journal</i> , 2012 , 58, 553-567 | 3.6 | 4 |
| 120 | Capacity expansion planning through augmented Lagrangian optimization and scenario decomposition. <i>AIChE Journal</i> , 2012 , 58, 871-883 | 3.6 | 15 |
| 119 | Improvement of tablet coating uniformity using a quality by design approach. <i>AAPS PharmSciTech</i> , 2012 , 13, 231-46 | 3.9 | 17 |
| 118 | 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, 307-26 | 6.5 | 98 |
| 117 | Dynamics of short-term gene expression profiling in liver following thermal injury. <i>Journal of Surgical Research</i> , 2012 , 176, 549-58 | 2.5 | 13 |
| 116 | Dynamics of hepatic gene expression profile in a rat cecal ligation and puncture model. <i>Journal of Surgical Research</i> , 2012 , 176, 583-600 | 2.5 | 12 |
| 115 | Long-term gene expression profile dynamics following cecal ligation and puncture in the rat. <i>Journal of Surgical Research</i> , 2012 , 178, 431-42 | 2.5 | 6 |
| 114 | Comparison of Biodiesel Performance Based on HCCI Engine Simulation Using Detailed Mechanism with On-the-fly Reduction. <i>Energy & Fuels</i> , 2012 , 26, 976-983 | 4.1 | 15 |
| 113 | Stoichiometry based steady-state hepatic flux analysis: computational and experimental aspects. <i>Metabolites</i> , 2012 , 2, 268-91 | 5.6 | 5 |
| 112 | An integrated approach for dynamic flowsheet modeling and sensitivity analysis of a continuous tablet manufacturing process. <i>Computers and Chemical Engineering</i> , 2012 , 42, 30-47 | 4 | 137 |
| 111 | Optimal design of sustainable chemical processes and supply chains: A review. <i>Computers and Chemical Engineering</i> , 2012 , 44, 94-103 | 4 | 84 |

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| 110 | Long-term dynamic profiling of inflammatory mediators in double-hit burn and sepsis animal models. <i>Cytokine</i> , 2012 , 58, 307-15 | 4 | 8 |
| 109 | Optimizing continuous powder mixing processes using periodic section modeling. <i>Chemical Engineering Science</i> , 2012 , 80, 70-80 | 4.4 | 34 |
| 108 | Hybrid simulation based optimization approach for supply chain management. <i>Computers and Chemical Engineering</i> , 2012 , 47, 183-193 | 4 | 55 |
| 107 | Integration of Scheduling and Control with Closed Loop Implementation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8550-8565 | 3.9 | 90 |
| 106 | Feasibility analysis of black-box processes using an adaptive sampling Kriging-based method. <i>Computers and Chemical Engineering</i> , 2012 , 36, 358-368 | 4 | 58 |
| 105 | Integrated production planning and scheduling optimization of multisite, multiproduct process industry. <i>Computers and Chemical Engineering</i> , 2012 , 37, 214-226 | 4 | 55 |
| 104 | Analysis of amino acid supplementation effects on hepatocyte cultures using flux balance analysis. <i>OMICS A Journal of Integrative Biology</i> , 2011 , 15, 449-60 | 3.8 | 8 |
| 103 | Comparison of the cytokine and chemokine dynamics of the early inflammatory response in models of burn injury and infection. <i>Cytokine</i> , 2011 , 55, 362-71 | 4 | 31 |
| 102 | The dynamics of the early inflammatory response in double-hit burn and sepsis animal models. <i>Cytokine</i> , 2011 , 56, 494-502 | 4 | 16 |
| 101 | Integrated production planning and scheduling optimization of multi-site, multi-product process industry. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 1015-1019 | 0.6 | 1 |
| 100 | Petroleum Refining Operations: Key Issues, Advances, and Opportunities. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 1161-1170 | 3.9 | 85 |
| 99 | Model-Based Control-Loop Performance of a Continuous Direct Compaction Process. <i>Journal of Pharmaceutical Innovation</i> , 2011 , 6, 249-263 | 1.8 | 41 |
| 98 | Computational Approaches for Studying the Granular Dynamics of Continuous Blending Processes, 1 DEM Based Methods. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 290-307 | 3.9 | 61 |
| 97 | Characterization of feeder effects on continuous solid mixing using fourier series analysis. <i>AICHE Journal</i> , 2011 , 57, 1144-1153 | 3.6 | 28 |
| 96 | Short-term scheduling of a large-scale oil-refinery operations: Incorporating logistics details. <i>AICHE Journal</i> , 2011 , 57, 1570-1584 | 3.6 | 28 |
| 95 | Investigation on the effect of blade patterns on continuous solid mixing performance. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 969-984 | 2.3 | 14 |
| 94 | Metabolic response of perfused livers to various oxygenation conditions. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2947-57 | 4.9 | 9 |
| 93 | Characterizing continuous powder mixing using residence time distribution. <i>Chemical Engineering Science</i> , 2011 , 66, 417-425 | 4.4 | 150 |

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| 92 | Sensitivity-Based Product Portfolio and Design Integration. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3919-3927 | 3.9 | 1 |
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