

# Fengqi You

## List of Publications by Year in Descending Order

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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.

307  
papers

11,106  
citations

58  
h-index

95  
g-index

347  
ext. papers

13,548  
ext. citations

5.4  
avg, IF

7.67  
L-index

| #   | Paper                                                                                                                                                                                                                                                                             | IF   | Citations |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 307 | Consequential life cycle assessment: Evaluating the environmental impact of dairy manure treatment using thermochemical conversion technologies <b>2022</b> , 607-637                                                                                                             |      |           |
| 306 | Energy and environmental sustainability of waste personal protective equipment (PPE) treatment under COVID-19. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 153, 111786                                                                                        | 16.2 | 6         |
| 305 | Machine learning for multiscale modeling in computational molecular design. <i>Current Opinion in Chemical Engineering</i> , <b>2022</b> , 36, 100752                                                                                                                             | 5.4  | 4         |
| 304 | Quantum computing for chemical and biomolecular product design. <i>Current Opinion in Chemical Engineering</i> , <b>2022</b> , 36, 100754                                                                                                                                         | 5.4  | 3         |
| 303 | Forecasting plastic waste generation and interventions for environmental hazard mitigation. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127330                                                                                                                     | 12.8 | 8         |
| 302 | Sustainable design of Cornell University campus energy systems toward climate neutrality and 100% renewables. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 161, 112383                                                                                         | 16.2 | 4         |
| 301 | Toward Carbon-Neutral Electric Power Systems in the New York State: a Novel Multi-Scale Bottom-Up Optimization Framework Coupled with Machine Learning for Capacity Planning at Hourly Resolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1805-1821 | 8.3  | 4         |
| 300 | Sustainable power systems operations under renewable energy induced disjunctive uncertainties via machine learning-based robust optimization. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 161, 112428                                                         | 16.2 | 2         |
| 299 | Deep learning to catalyze inverse molecular design. <i>Chemical Engineering Journal</i> , <b>2022</b> , 444, 136669                                                                                                                                                               | 14.7 | 2         |
| 298 | Plastic Circular Economy Framework using Hybrid Machine Learning and Pinch Analysis. <i>Resources, Conservation and Recycling</i> , <b>2022</b> , 184, 106387                                                                                                                     | 11.9 | 1         |
| 297 | Quantum computing and quantum artificial intelligence for renewable and sustainable energy: A emerging prospect towards climate neutrality. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 165, 112493                                                           | 16.2 | 3         |
| 296 | COVID-19 impact on an academic Institution's greenhouse gas inventory: The case of Cornell University. <i>Journal of Cleaner Production</i> , <b>2022</b> , 363, 132440                                                                                                           | 10.3 | 0         |
| 295 | Intelligent control and energy optimization in controlled environment agriculture via nonlinear model predictive control of semi-closed greenhouse. <i>Applied Energy</i> , <b>2022</b> , 320, 119334                                                                             | 10.7 | 0         |
| 294 | Trend towards virtual and hybrid conferences may be an effective climate change mitigation strategy.. <i>Nature Communications</i> , <b>2021</b> , 12, 7324                                                                                                                       | 17.4 | 5         |
| 293 | Second life and recycling: Energy and environmental sustainability perspectives for high-performance lithium-ion batteries. <i>Science Advances</i> , <b>2021</b> , 7, eabi7633                                                                                                   | 14.3 | 11        |
| 292 | Smart greenhouse control under harsh climate conditions based on data-driven robust model predictive control with principal component analysis and kernel density estimation. <i>Journal of Process Control</i> , <b>2021</b> , 107, 103-113                                      | 3.9  | 6         |
| 291 | Online learning based risk-averse stochastic MPC of constrained linear uncertain systems. <i>Automatica</i> , <b>2021</b> , 125, 109402                                                                                                                                           | 5.7  | 3         |

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| 290 | Process systems engineering The generation next?. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 147, 107252                                                                                                                                    | 4    | 38 |
| 289 | Can Artificial Intelligence and Machine Learning Be Used to Accelerate Sustainable Chemistry and Engineering?. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6126-6129                                                               | 8.3  | 7  |
| 288 | New York State's 100% renewable electricity transition planning under uncertainty using a data-driven multistage adaptive robust optimization approach with machine-learning. <i>Advances in Applied Energy</i> , <b>2021</b> , 2, 100019                  |      | 24 |
| 287 | Life cycle assessment of recycling strategies for perovskite photovoltaic modules. <i>Nature Sustainability</i> , <b>2021</b> , 4, 821-829                                                                                                                 | 22.1 | 28 |
| 286 | Paradigm Shift: The Promise of Deep Learning in Molecular Systems Engineering and Design. <i>Frontiers in Chemical Engineering</i> , <b>2021</b> , 3,                                                                                                      | 1    | 3  |
| 285 | Bilayer Distributed Optimization for Robust Microgrid Dispatch With Coupled Individual-Collective Profits. <i>IEEE Transactions on Sustainable Energy</i> , <b>2021</b> , 12, 1525-1538                                                                    | 8.2  | 7  |
| 284 | Energy and Environmental Sustainability Assessment of Photovoltaics Transition toward Perovskite/Perovskite Tandems from the Attributional and Consequential Perspectives. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11247-11257 | 8.3  | 1  |
| 283 | Machine Learning and Data-Driven Techniques for the Control of Smart Power Generation Systems: An Uncertainty Handling Perspective. <i>Engineering</i> , <b>2021</b> ,                                                                                     | 9.7  | 11 |
| 282 | Liquefied natural gas supply chain using liquid air as a cold carrier: Novel method for energy recovery. <i>Energy Conversion and Management</i> , <b>2021</b> , 227, 113611                                                                               | 10.6 | 13 |
| 281 | Waste respirator processing system for public health protection and climate change mitigation under COVID-19 pandemic: Novel process design and energy, environmental, and techno-economic perspectives. <i>Applied Energy</i> , <b>2021</b> , 283, 116129 | 10.7 | 7  |
| 280 | Food-energy-water-waste nexus systems optimization for New York State under the COVID-19 pandemic to alleviate health and environmental concerns. <i>Applied Energy</i> , <b>2021</b> , 282, 116181                                                        | 10.7 | 25 |
| 279 | A Posteriori Probabilistic Bounds of Convex Scenario Programs With Validation Tests. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 4015-4028                                                                                           | 5.9  | 1  |
| 278 | Multi-stage economic model predictive control for a gold cyanidation leaching process under uncertainty. <i>AIChE Journal</i> , <b>2021</b> , 67,                                                                                                          | 3.6  | 4  |
| 277 | Fault Diagnosis of Electrical Power Systems with Hybrid Quantum-Classical Deep Learning. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 1173-1179                                                                                          | 0.6  | 0  |
| 276 | Sustainable Process Design and Synthesis for HDPE Recycling. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 31-36                                                                                                                              | 0.6  | 1  |
| 275 | Design of Food-Energy-Water-Waste Nexus Systems in New York State under COVID-19 Pandemic. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 1465-1471                                                                                        | 0.6  |    |
| 274 | A Novel Process Design for Waste Respirator Processing. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 37-42                                                                                                                                   | 0.6  |    |
| 273 | Deep Learning based Distributionally Robust Joint Chance Constrained Economic Dispatch under Wind Power Uncertainty. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 1-1                                                                         | 7    | 6  |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 272 | Semiclosed Greenhouse Climate Control Under Uncertainty via Machine Learning and Data-Driven Robust Model Predictive Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-12                              | 4.8  | 6  |
| 271 | A Hybrid Solution Approach for Large-scale Batch Scheduling with Quantum Computing. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 50, 1747-1753                                                                           | 0.6  | 0  |
| 270 | Life Cycle Optimization of Hybrid Energy Systems towards Carbon Neutrality. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 1445-1451                                                                                       | 0.6  |    |
| 269 | Synthesis and Design of Sustainable Integrated Process, Water Treatment, Energy Supply Networks and Carbon Utilization Networks Under Uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 1497-1503                | 0.6  | 0  |
| 268 | Sustainable Residential Micro-Cogeneration System Based on a Fuel Cell Using Dynamic Programming-Based Economic Day-Ahead Scheduling. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3258-3266                    | 8.3  | 13 |
| 267 | Consequential Life Cycle Assessment and Optimization of High-Density Polyethylene Plastic Waste Chemical Recycling. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12167-12184                                    | 8.3  | 7  |
| 266 | Nonlinear soft sensor development for industrial thickeners using domain transfer functional-link neural network. <i>Control Engineering Practice</i> , <b>2021</b> , 113, 104853                                                      | 3.9  | 1  |
| 265 | Data-driven robust model predictive control framework for stem water potential regulation and irrigation in water management. <i>Control Engineering Practice</i> , <b>2021</b> , 113, 104841                                          | 3.9  | 5  |
| 264 | Quantum computing based hybrid deep learning for fault diagnosis in electrical power systems. <i>Applied Energy</i> , <b>2021</b> , 303, 117628                                                                                        | 10.7 | 15 |
| 263 | Can decontamination and reuse of N95 respirators during COVID-19 pandemic provide energy, environmental, and economic benefits?. <i>Applied Energy</i> , <b>2021</b> , 304, 117848                                                     | 10.7 | 3  |
| 262 | Data-Driven Robust MPC for Controlled Environment Agriculture. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 1181-1187                                                                                                    | 0.6  | 2  |
| 261 | Waste high-density polyethylene recycling process systems for mitigating plastic pollution through a sustainable design and synthesis paradigm. <i>AIChE Journal</i> , <b>2021</b> , 67, e17127                                        | 3.6  | 5  |
| 260 | A Platform of Machine Learning-Based Next-Generation Property Estimation Methods for CAMD. <i>Computer Aided Chemical Engineering</i> , <b>2021</b> , 227-233                                                                          | 0.6  | 2  |
| 259 | Simulation-based optimization framework for economic operations of autonomous electric taxicab considering battery aging. <i>Applied Energy</i> , <b>2020</b> , 279, 115721                                                            | 10.7 | 3  |
| 258 | Core temperature modelling and monitoring of lithium-ion battery in the presence of sensor bias. <i>Applied Energy</i> , <b>2020</b> , 271, 115243                                                                                     | 10.7 | 15 |
| 257 | Life Cycle Assessment and Technoeconomic Analysis of Thermochemical Conversion Technologies Applied to Poultry Litter with Energy and Nutrient Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8436-8447 | 8.3  | 20 |
| 256 | Distributionally robust chance constrained programming with generative adversarial networks (GANs). <i>AIChE Journal</i> , <b>2020</b> , 66, e16963                                                                                    | 3.6  | 5  |
| 255 | Techno-Economic Feasibility and Spatial Analysis of Thermochemical Conversion Pathways for Regional Poultry Waste Valorization. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 5763-5775                          | 8.3  | 16 |

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| 254 | Dynamic modeling, systematic analysis, and operation optimization for shell entrained-flow heavy residue gasifier. <i>Energy</i> , <b>2020</b> , 197, 117220                                                                         | 7.9  | 4  |
| 253 | Poultry Waste Valorization via Pyrolysis Technologies: Economic and Environmental Life Cycle Optimization for Sustainable Bioenergy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 4633-4646           | 8.3  | 20 |
| 252 | Resource recovery and waste-to-energy from wastewater sludge via thermochemical conversion technologies in support of circular economy: a comprehensive review. <i>BMC Chemical Engineering</i> , <b>2020</b> , 2,                   | 3.5  | 11 |
| 251 | Process-level modelling and optimization to evaluate metal-organic frameworks for post-combustion capture of CO <sub>2</sub> . <i>Molecular Systems Design and Engineering</i> , <b>2020</b> , 5, 1205-1218                          | 4.6  | 17 |
| 250 | Deep learning and knowledge-based methods for computer-aided molecular design toward a unified approach: State-of-the-art and future directions. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 141, 107005               | 4    | 35 |
| 249 | Soft-constrained model predictive control based on data-driven distributionally robust optimization. <i>AIChE Journal</i> , <b>2020</b> , 66, e16546                                                                                 | 3.6  | 12 |
| 248 | Transfer learning for end-product quality prediction of batch processes using domain-adaption joint-Y PLS. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 140, 106943                                                     | 4    | 9  |
| 247 | Noncooperative Game Theory To Ensure the Marketability of Organic Fertilizers within a Sustainable Circular Economy. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 3809-3819                                   | 8.3  | 4  |
| 246 | Novel massive thermal energy storage system for liquefied natural gas cold energy recovery. <i>Energy</i> , <b>2020</b> , 195, 117022                                                                                                | 7.9  | 21 |
| 245 | A transformation-proximal bundle algorithm for multistage adaptive robust optimization and application to constrained robust optimal control. <i>Automatica</i> , <b>2020</b> , 113, 108802                                          | 5.7  | 4  |
| 244 | Decentralized-distributed robust electric power scheduling for multi-microgrid systems. <i>Applied Energy</i> , <b>2020</b> , 269, 115146                                                                                            | 10.7 | 30 |
| 243 | Quantum computing based hybrid solution strategies for large-scale discrete-continuous optimization problems. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 132, 106630                                                  | 4    | 42 |
| 242 | Active disturbance rejection temperature control of open-cathode proton exchange membrane fuel cell. <i>Applied Energy</i> , <b>2020</b> , 261, 114381                                                                               | 10.7 | 68 |
| 241 | Multiobjective economic and environmental optimization of global crude oil purchase and sale planning with noncooperative stakeholders. <i>Applied Energy</i> , <b>2020</b> , 259, 114222                                            | 10.7 | 11 |
| 240 | Sustainable design of geothermal energy systems for electric power generation using life cycle optimization. <i>AIChE Journal</i> , <b>2020</b> , 66, e16898                                                                         | 3.6  | 10 |
| 239 | Waste Polypropylene Plastic Recycling toward Climate Change Mitigation and Circular Economy: Energy, Environmental, and Technoeconomic Perspectives. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16350-16363 | 8.3  | 35 |
| 238 | Quantum computing assisted deep learning for fault detection and diagnosis in industrial process systems. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 143, 107119                                                      | 4    | 12 |
| 237 | Can renewable generation, energy storage and energy efficient technologies enable carbon neutral energy transition?. <i>Applied Energy</i> , <b>2020</b> , 279, 115889                                                               | 10.7 | 56 |

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| 236 | Combined internal resistance and state-of-charge estimation of lithium-ion battery based on extended state observer. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 131, 109994                                                                 | 16.2 | 44 |
| 235 | Life cycle energy use and environmental implications of high-performance perovskite tandem solar cells. <i>Science Advances</i> , <b>2020</b> , 6, eabb0055                                                                                                      | 14.3 | 25 |
| 234 | Retrofitting Municipal Wastewater Treatment Facilities toward a Greener and Circular Economy by Virtue of Resource Recovery: Techno-Economic Analysis and Life Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 13823-13837 | 8.3  | 15 |
| 233 | Robust Model Predictive Control of Irrigation Systems With Active Uncertainty Learning and Data Analytics. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1493-1504                                                                  | 4.8  | 25 |
| 232 | Sustainable Design of Energy Systems by Integrating Life Cycle Optimization With Superstructure Optimization. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 47, 211-220                                                                             | 0.6  | 1  |
| 231 | 110th Anniversary: Surrogate Models Based on Artificial Neural Networks To Simulate and Optimize Pressure Swing Adsorption Cycles for CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 18241-18252            | 3.9  | 32 |
| 230 | Data-driven Wasserstein distributionally robust optimization for biomass with agricultural waste-to-energy network design under uncertainty. <i>Applied Energy</i> , <b>2019</b> , 255, 113857                                                                   | 10.7 | 29 |
| 229 | A Data-Driven Robust Optimization Approach to Operational Optimization of Industrial Steam Systems under Uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 46, 1399-1404                                                                   | 0.6  | 4  |
| 228 | Development of a General Evaluation Metric for Rapid Screening of Adsorbent Materials for Postcombustion CO <sub>2</sub> Capture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11529-11539                                                | 8.3  | 48 |
| 227 | A data-driven approach for industrial utility systems optimization under uncertainty. <i>Energy</i> , <b>2019</b> , 182, 559-569                                                                                                                                 | 7.9  | 11 |
| 226 | Carbon-neutral hybrid energy systems with deep water source cooling, biomass heating, and geothermal heat and power. <i>Applied Energy</i> , <b>2019</b> , 250, 413-432                                                                                          | 10.7 | 27 |
| 225 | Incorporating agricultural waste-to-energy pathways into biomass product and process network through data-driven nonlinear adaptive robust optimization. <i>Energy</i> , <b>2019</b> , 180, 556-571                                                              | 7.9  | 20 |
| 224 | Quantum computing for energy systems optimization: Challenges and opportunities. <i>Energy</i> , <b>2019</b> , 179, 76-89                                                                                                                                        | 7.9  | 43 |
| 223 | Considering agricultural wastes and ecosystem services in Food-Energy-Water-Waste Nexus system design. <i>Journal of Cleaner Production</i> , <b>2019</b> , 228, 941-955                                                                                         | 10.3 | 38 |
| 222 | Superstructure optimization of thermal conversion based poultry litter valorization process. <i>Journal of Cleaner Production</i> , <b>2019</b> , 228, 1111-1121                                                                                                 | 10.3 | 10 |
| 221 | Systems analysis, design, and optimization of geothermal energy systems for power production and polygeneration: State-of-the-art and future challenges. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 109, 551-577                            | 16.2 | 46 |
| 220 | Economic Process Selection of Liquefied Natural Gas Regasification: Power Generation and Energy Storage Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 4946-4956                                                       | 3.9  | 21 |
| 219 | Optimization under uncertainty in the era of big data and deep learning: When machine learning meets mathematical programming. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 125, 434-448                                                            | 4    | 96 |

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| 218 | Systems design and analysis of liquid air energy storage from liquefied natural gas cold energy. <i>Applied Energy</i> , <b>2019</b> , 242, 168-180                                                       | 10.7 | 51 |
| 217 | A novel cryogenic energy storage system with LNG direct expansion regasification: Design, energy optimization, and exergy analysis. <i>Energy</i> , <b>2019</b> , 173, 691-705                            | 7.9  | 38 |
| 216 | A stochastic game theoretic framework for decentralized optimization of multi-stakeholder supply chains under uncertainty. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 122, 31-46           | 4    | 13 |
| 215 | A projection-based reformulation and decomposition algorithm for global optimization of a class of mixed integer bilevel linear programs. <i>Journal of Global Optimization</i> , <b>2019</b> , 73, 27-57 | 1.5  | 18 |
| 214 | Energy integration and optimisation for sustainable total site, process and equipment design. <i>Energy</i> , <b>2019</b> , 186, 115896                                                                   | 7.9  | 1  |
| 213 | How to assess the potential of emerging green technologies? Towards a prospective environmental and techno-economic assessment framework. <i>Green Chemistry</i> , <b>2019</b> , 21, 4868-4886            | 10   | 56 |
| 212 | Dairy waste-to-energy incentive policy design using Stackelberg-game-based modeling and optimization. <i>Applied Energy</i> , <b>2019</b> , 254, 113701                                                   | 10.7 | 17 |
| 211 | Systematic Design and Optimization of a Membrane-Cryogenic Hybrid System for CO2 Capture. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17186-17197                                 | 8.3  | 9  |
| 210 | Data Analytics and Machine Learning for Smart Process Manufacturing: Recent Advances and Perspectives in the Big Data Era. <i>Engineering</i> , <b>2019</b> , 5, 1010-1016                                | 9.7  | 85 |
| 209 | Data-Based Robust Model Predictive Control Under Conditional Uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 1375-1380                                                            | 0.6  |    |
| 208 | Consequential Life Cycle Analysis for Food-Water- Energy-Waste Nexus. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 1705-1710                                                                | 0.6  | 1  |
| 207 | Optimizing Return on Investment in Biomass Conversion Networks under Uncertainty Using Data-Driven Adaptive Robust Optimization. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 46, 67-72     | 0.6  |    |
| 206 | Comparative Life-Cycle Assessment of Li-Ion Batteries through Process-Based and Integrated Hybrid Approaches. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 5082-5094               | 8.3  | 26 |
| 205 | Chemical Process Scheduling under Disjunctive Uncertainty Using Data-Driven Multistage Adaptive Robust Optimization <b>2019</b> ,                                                                         |      | 1  |
| 204 | Prediction of Cover Crop Adoption through Machine Learning Models using Satellite-derived Data. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 137-142                                                      | 0.7  | 3  |
| 203 | Deciphering Latent Uncertainty Sources with Principal Component Analysis for Adaptive Robust Optimization. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 46, 1189-1194                       | 0.6  | 1  |
| 202 | Data-Driven Adaptive Robust Optimization Framework for Unit Commitment under Renewable Energy Generation Uncertainty <b>2019</b> ,                                                                        |      | 1  |
| 201 | A multi-objective optimization-extended techno-economic assessment: exploring the optimal microalgal-based value chain. <i>Green Chemistry</i> , <b>2019</b> , 21, 5945-5959                              | 10   | 17 |

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| 200 | Process systems engineering thinking and tools applied to sustainability problems: current landscape and future opportunities. <i>Current Opinion in Chemical Engineering</i> , <b>2019</b> , 26, 170-179                                            | 5.4  | 21 |
| 199 | Robust Constrained Model Predictive Control of Irrigation Systems Based on Data-Driven Uncertainty Set Constructions <b>2019</b> ,                                                                                                                   |      | 2  |
| 198 | Resilient supply chain design and operations with decision-dependent uncertainty using a data-driven robust optimization approach. <i>AICHE Journal</i> , <b>2019</b> , 65, 1006-1021                                                                | 3.6  | 29 |
| 197 | Sustainable Manufacturing With Cyber-Physical Discrete Manufacturing Networks: Overview and Modeling Framework. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,                               | 3.3  | 8  |
| 196 | Operational optimization of industrial steam systems under uncertainty using data-Driven adaptive robust optimization. <i>AICHE Journal</i> , <b>2019</b> , 65, e16500                                                                               | 3.6  | 19 |
| 195 | Data-Driven Adaptive Robust Unit Commitment Under Wind Power Uncertainty: A Bayesian Nonparametric Approach. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 2409-2418                                                                 | 7    | 55 |
| 194 | A data-driven robust optimization approach to scenario-based stochastic model predictive control. <i>Journal of Process Control</i> , <b>2019</b> , 75, 24-39                                                                                        | 3.9  | 42 |
| 193 | Repairing Automotive Dies With Directed Energy Deposition: Industrial Application and Life Cycle Analysis. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,                                    | 3.3  | 17 |
| 192 | Data-driven distributionally robust optimization of shale gas supply chains under uncertainty. <i>AICHE Journal</i> , <b>2019</b> , 65, 947-963                                                                                                      | 3.6  | 25 |
| 191 | Life cycle environmental and economic analysis of pulverized coal oxy-fuel combustion combining with calcium looping process or chemical looping air separation. <i>Journal of Cleaner Production</i> , <b>2018</b> , 181, 271-292                   | 10.3 | 29 |
| 190 | Data-driven decision making under uncertainty integrating robust optimization with principal component analysis and kernel smoothing methods. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 112, 190-210                                 | 4    | 74 |
| 189 | On-line simulation and optimization of a commercial-scale shell entrained-flow gasifier using a novel dynamic reduced order model. <i>Energy</i> , <b>2018</b> , 149, 516-534                                                                        | 7.9  | 16 |
| 188 | Synthesis of Resource Optimal Chemical Processes <b>2018</b> , 347-371                                                                                                                                                                               |      |    |
| 187 | Addressing global environmental impacts including land use change in life cycle optimization: Studies on biofuels. <i>Journal of Cleaner Production</i> , <b>2018</b> , 182, 313-330                                                                 | 10.3 | 27 |
| 186 | Integrated Hybrid Life Cycle Assessment and Optimization of Shale Gas. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1803-1824                                                                                                 | 8.3  | 28 |
| 185 | Distributionally robust optimization for planning and scheduling under uncertainty. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 110, 53-68                                                                                             | 4    | 60 |
| 184 | Manufacturing Ethylene from Wet Shale Gas and Biomass: Comparative Technoeconomic Analysis and Environmental Life Cycle Assessment. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 5980-5998                             | 3.9  | 33 |
| 183 | Data-driven stochastic robust optimization: General computational framework and algorithm leveraging machine learning for optimization under uncertainty in the big data era. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 111, 115-133 | 4    | 61 |



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| 182 | Monetizing shale gas to polymers under mixed uncertainty: Stochastic modeling and likelihood analysis. <i>AICHE Journal</i> , <b>2018</b> , 64, 2017-2036                                                                                           | 3.6  | 7  |
| 181 | Systems modeling, simulation and analysis for robust operations and improved design of entrained-flow pulverized coal gasifiers. <i>Energy</i> , <b>2018</b> , 148, 941-964                                                                         | 7.9  | 21 |
| 180 | Systems Design, Modeling, and Thermo-economic Analysis of Azeotropic Distillation Processes for Organic Waste Treatment and Recovery in Nylon Plants. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 9994-10010         | 3.9  | 7  |
| 179 | Adaptive robust optimization with minimax regret criterion: Multiobjective optimization framework and computational algorithm for planning and scheduling under uncertainty. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 108, 425-447 | 4    | 26 |
| 178 | Modular methanol manufacturing from shale gas: Techno-economic and environmental analyses of conventional large-scale production versus small-scale distributed, modular processing. <i>AICHE Journal</i> , <b>2018</b> , 64, 495-510               | 3.6  | 43 |
| 177 | Resilient Design and Operations of Chemical Process Systems. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 1-6                                                                                                                         | 0.6  | 1  |
| 176 | Dynamic Material Flow Analysis-Based Life Cycle Optimization Framework and Application to Sustainable Design of Shale Gas Energy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11734-11752                           | 8.3  | 16 |
| 175 | Leveraging the Power of Big Data Analytics for Process Scheduling under Uncertainty using a Stochastic Robust Optimization Approach. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 319-324                                             | 0.6  |    |
| 174 | Multi-objective economic-resource-production optimization of sustainable organic mixed farming systems with nutrient recycling. <i>Journal of Cleaner Production</i> , <b>2018</b> , 196, 304-330                                                   | 10.3 | 12 |
| 173 | A Game Theory Approach to Design and Optimization of Decentralized Supply Chains under Uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 1603-1608                                                                        | 0.6  | 1  |
| 172 | Distributionally Robust Process Scheduling under Ambiguous Uncertainty <b>2018</b> ,                                                                                                                                                                |      | 1  |
| 171 | Comparative Life Cycle Assessment of Ethylene from Wet Shale Gas and Biomass. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 37-42                                                                                                  | 0.6  | 1  |
| 170 | Resilient design and operations of process systems: Nonlinear adaptive robust optimization model and algorithm for resilience analysis and enhancement. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 116, 231-252                      | 4    | 40 |
| 169 | Multicriteria Environmental and Economic Analysis of Municipal Solid Waste Incineration Power Plant with Carbon Capture and Separation from the Life-Cycle Perspective. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 937-956 | 8.3  | 29 |
| 168 | A new superstructure optimization paradigm for process synthesis with product distribution optimization: Application to an integrated shale gas processing and chemical manufacturing process. <i>AICHE Journal</i> , <b>2018</b> , 64, 123-143     | 3.6  | 39 |
| 167 | Robust Process Scheduling under Uncertainty with Regret. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 913-918                                                                                                                         | 0.6  |    |
| 166 | Process Scheduling under Ambiguity Uncertainty Probability Distribution. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 919-924                                                                                                     | 0.6  |    |
| 165 | A Transformation-Proximal Bundle Algorithm for Solving Multistage Adaptive Robust Optimization Problems <b>2018</b> ,                                                                                                                               |      | 1  |

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| 164 | Robust Optimization in High-Dimensional Data Space with Support Vector Clustering. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 19-24                                                                                                                                                        | 0.7  | 3   |
| 163 | Data-Driven Process Network Planning: A Distributionally Robust Optimization Approach. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 150-155                                                                                                                                                  | 0.7  | 1   |
| 162 | Optimal design of water networks for shale gas hydraulic fracturing including economic and environmental criteria. <i>Clean Technologies and Environmental Policy</i> , <b>2018</b> , 20, 2311-2332                                                                                          | 4.3  | 7   |
| 161 | Including Agricultural and Organic Waste in Food-Water-Energy-Waste Nexus Modelling and Decision-Making. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 1475-1480                                                                                                            | 0.6  | 2   |
| 160 | Endpoint-oriented Life Cycle Optimization Models for Sustainable Design and Operations of Shale Gas Supply Chains with Modular Manufacturing. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 591-596                                                                         | 0.6  | 1   |
| 159 | Global carbon intensity of crude oil production. <i>Science</i> , <b>2018</b> , 361, 851-853                                                                                                                                                                                                 | 33.3 | 100 |
| 158 | Optimal processing network design under uncertainty for producing fuels and value-added bioproducts from microalgae: Two-stage adaptive robust mixed integer fractional programming model and computationally efficient solution algorithm. <i>AIChE Journal</i> , <b>2017</b> , 63, 582-600 | 3.6  | 49  |
| 157 | Design and optimization of shale gas energy systems: Overview, research challenges, and future directions. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 106, 699-718                                                                                                            | 4    | 69  |
| 156 | Optimal Design of Energy Systems Involving Pollution Trading through Forest Plantations. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2585-2604                                                                                                                       | 8.3  | 15  |
| 155 | A data-driven multistage adaptive robust optimization framework for planning and scheduling under uncertainty. <i>AIChE Journal</i> , <b>2017</b> , 63, 4343-4369                                                                                                                            | 3.6  | 69  |
| 154 | Modeling framework and computational algorithm for hedging against uncertainty in sustainable supply chain design using functional-unit-based life cycle optimization. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 107, 221-236                                                | 4    | 25  |
| 153 | Comparative Techno-Economic and Environmental Analysis of Ethylene and Propylene Manufacturing from Wet Shale Gas and Naphtha. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 4038-4051                                                                          | 3.9  | 68  |
| 152 | Economic and Environmental Life Cycle Optimization of Noncooperative Supply Chains and Product Systems: Modeling Framework, Mixed-Integer Bilevel Fractional Programming Algorithm, and Shale Gas Application. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 3362-3381 | 8.3  | 47  |
| 151 | Data-driven adaptive nested robust optimization: General modeling framework and efficient computational algorithm for decision making under uncertainty. <i>AIChE Journal</i> , <b>2017</b> , 63, 3790-3817                                                                                  | 3.6  | 83  |
| 150 | A systematic simulation-based process intensification method for shale gas processing and NGLs recovery process systems under uncertain feedstock compositions. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 105, 259-275                                                       | 4    | 35  |
| 149 | Game theory approach to optimal design of shale gas supply chains with consideration of economics and life cycle greenhouse gas emissions. <i>AIChE Journal</i> , <b>2017</b> , 63, 2671-2693                                                                                                | 3.6  | 45  |
| 148 | Can Modular Manufacturing Be the Next Game-Changer in Shale Gas Supply Chain Design and Operations for Economic and Environmental Sustainability?. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10046-10071                                                           | 8.3  | 23  |
| 147 | Life Cycle Optimisation from A Noncooperative Perspective: Game Theory-Based Models and Applications. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 1915-1920                                                                                                               | 0.6  |     |

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| 146 | Optimal Global Land Use, Cultivation, Transportation, and Production Strategies to Minimise Life Cycle Greenhouse Gas Emissions of Ethanol. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 2005-2010  | 0.6 |    |
| 145 | Introducing Green GDP as an Objective to Account for Changes in Global Ecosystem Services Due to Biofuel Production. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 505-510                           | 0.6 | 5  |
| 144 | Optimal design and operation of water supply chain networks using scenario-based dynamic negotiation and multiple negotiation terms. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 1921-1926         | 0.6 |    |
| 143 | Optimal synthesis of integrated process for co-production of biodiesel and hydrotreated vegetable oil (HVO) diesel from hybrid oil feedstocks. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 673-678 | 0.6 | 7  |
| 142 | Systems engineering opportunities for agricultural and organic waste management in the food-water-energy nexus. <i>Current Opinion in Chemical Engineering</i> , <b>2017</b> , 18, 23-31                              | 5.4 | 48 |
| 141 | Data-driven robust optimization based on kernel learning. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 106, 464-479                                                                                      | 4   | 76 |
| 140 | Consequential Life Cycle Optimization: General Conceptual Framework and Application to Algal Renewable Diesel Production. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5887-5911               | 8.3 | 46 |
| 139 | Leveraging big data for adaptive robust optimization of scheduling under uncertainty <b>2017</b> ,                                                                                                                    |     | 1  |
| 138 | Computational Screening of Nanoporous Materials for Hexane and Heptane Isomer Separation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6315-6328                                                                 | 9.6 | 46 |
| 137 | Shale Gas Process and Supply Chain Optimization <b>2017</b> , 21-46                                                                                                                                                   |     | 3  |
| 136 | Stackelberg-game-based modeling and optimization for supply chain design and operations: A mixed integer bilevel programming framework. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 102, 81-95          | 4   | 69 |
| 135 | When Robust Statistics Meets with Robust Optimization: Data-Driven Batch Process Scheduling in The Presence of Outliers. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 2263-2268                     | 0.6 | 1  |
| 134 | Process Modeling and Analysis of Manufacturing Pathways for Producing Ethylene and Propylene from Wet Shale Gas and Naphtha. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 361-366                       | 0.6 | 2  |
| 133 | Hedging Against Uncertainty in Process Planning: A Data-Driven Adaptive Nested Robust Optimization Approach. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 1345-1350                                 | 0.6 | 1  |
| 132 | Hedging Against Uncertain Feedstock Compositions in Shale Gas Processing System Designs with Intensified Equipment Capacities. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 1051-1056               | 0.6 | 1  |
| 131 | Addressing the Minimum Environmental Impacts of Algal Renewable Diesel Production from a Consequential Perspective. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 2605-2610                              | 0.6 |    |
| 130 | Optimal Design and Synthesis of Algae Processing Network under Uncertainty Based on Return on Investment. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 2301-2306                                    | 0.6 | 1  |
| 129 | Optimal Design and Synthesis of Shale Gas Processing and NGL Recovery Processes. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 535-540                                                               | 0.6 | 1  |

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| 128 | In silico discovery of metal-organic frameworks for precombustion CO capture using a genetic algorithm. <i>Science Advances</i> , <b>2016</b> , 2, e1600909                                                                                                      | 14.3 | 164 |
| 127 | A computational framework and solution algorithms for two-stage adaptive robust scheduling of batch manufacturing processes under uncertainty. <i>AIChE Journal</i> , <b>2016</b> , 62, 687-703                                                                  | 3.6  | 55  |
| 126 | Optimal supply chain design and operations under multi-scale uncertainties: Nested stochastic robust optimization modeling framework and solution algorithm. <i>AIChE Journal</i> , <b>2016</b> , 62, 3041-3055                                                  | 3.6  | 58  |
| 125 | Thermal and economic analysis of an energy system of an ORC coupled with vehicle air conditioning. <i>International Journal of Refrigeration</i> , <b>2016</b> , 64, 152-167                                                                                     | 3.8  | 22  |
| 124 | Integrating Hybrid Life Cycle Assessment with Multiobjective Optimization: A Modeling Framework. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1501-9                                                                                        | 10.3 | 68  |
| 123 | Optimization of Two-Stage Pressure/Vacuum Swing Adsorption with Variable Dehydration Level for Postcombustion Carbon Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 3338-3350                                               | 3.0  | 55  |
| 122 | The water-energy-food nexus and process systems engineering: A new focus. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 91, 49-67                                                                                                                    | 4    | 174 |
| 121 | A computationally efficient simulation-based optimization method with region-wise surrogate modeling for stochastic inventory management of supply chains with general network structures. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 87, 164-179 | 4    | 30  |
| 120 | Deciphering the true life cycle environmental impacts and costs of the mega-scale shale gas-to-olefins projects in the United States. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 820-840                                                         | 35.4 | 53  |
| 119 | Projection-based Reformulation and Decomposition Algorithm for A Class of Mixed-Integer Bilevel Linear Programs. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 481-486                                                                              | 0.6  | 5   |
| 118 | A Leader-Follower Game-Based Life Cycle Optimization Framework and Application. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 541-546                                                                                                           | 0.6  | 2   |
| 117 | Adjustable Robust Optimization for Scheduling of Batch Processes under Uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 547-552                                                                                                           | 0.6  |     |
| 116 | Investigating the energy-water-carbon nexus of mega-scale chemicals production from Appalachian shale gas. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 865-870                                                                                | 0.6  |     |
| 115 | Integrated Hybrid Life Cycle Optimization with Application to Sustainable Design of A UK Advanced Biofuel Supply Chain. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 2295-2300                                                                 | 0.6  |     |
| 114 | Multi-Stage Adaptive Robust Optimization over Bioconversion Product and Process Networks with Uncertain Feedstock Price and Biofuel Demand. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 217-222                                                   | 0.6  | 2   |
| 113 | Risk Management of Shale Gas Supply Chain under Estimated Ultimate Recovery Uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 529-534                                                                                                      | 0.6  | 2   |
| 112 | Energy optimization of water supply system scheduling: Novel MINLP model and efficient global optimization algorithm. <i>AIChE Journal</i> , <b>2016</b> , 62, 4277-4296                                                                                         | 3.6  | 11  |
| 111 | Life Cycle Algal Biorefinery Design <b>2016</b> , 363-381                                                                                                                                                                                                        |      |     |

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| 110 | Unraveling Optimal Biomass Processing Routes from Bioconversion Product and Process Networks under Uncertainty: An Adaptive Robust Optimization Approach. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3160-3173                      | 8.3  | 66  |
| 109 | Process Design and Optimization of an Integrated Shale Gas Process for Green Chemicals Production. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 1397-1402                                                                                      | 0.6  | 6   |
| 108 | Shale Gas Supply Chain Design and Operations toward Better Economic and Life Cycle Environmental Performance: MINLP Model and Global Optimization Algorithm. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1282-1291                   | 8.3  | 124 |
| 107 | Mixed-Integer Fractional Programming: Models, Algorithms, and Applications in Process Operations, Energy Systems, and Sustainability. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 109-116 <sup>0.6</sup>                                  |      |     |
| 106 | Model-based integration of control and operations: Overview, challenges, advances, and opportunities. <i>Computers and Chemical Engineering</i> , <b>2015</b> , 83, 2-20                                                                                     | 4    | 66  |
| 105 | Perovskite photovoltaics: life-cycle assessment of energy and environmental impacts. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1953-1968                                                                                                    | 35.4 | 355 |
| 104 | Supply chain design and optimization: Challenges and opportunities. <i>Computers and Chemical Engineering</i> , <b>2015</b> , 81, 153-170                                                                                                                    | 4    | 177 |
| 103 | Synergies between Geological Sequestration and Microalgae Biofixation for Greenhouse Gas Abatement: Life Cycle Design of Carbon Capture, Utilization, and Storage Supply Chains. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 841-861 | 8.3  | 25  |
| 102 | Optimization of Pressure/Vacuum Swing Adsorption with Variable Dehydration Levels for Post Combustion Carbon Capture. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 2447-2452                                                               | 0.6  |     |
| 101 | Product and Process Network Modeling and Pathway Optimization with Life Cycle Functional Unit Analysis: The Case of Biofuels. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 2069-2074                                                           | 0.6  | 0   |
| 100 | Network-Based Life Cycle Optimization of the Net Atmospheric CO <sub>2</sub> -eq Ratio (NACR) of Fuels and Chemicals Production from Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 1732-1744                                  | 8.3  | 35  |
| 99  | Sustainable design and synthesis of energy systems. <i>Current Opinion in Chemical Engineering</i> , <b>2015</b> , 10, 77-86                                                                                                                                 | 5.4  | 91  |
| 98  | Value-Added Chemicals from Microalgae: Greener, More Economical, or Both?. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 82-96                                                                                                         | 8.3  | 88  |
| 97  | Toward more cost-effective and greener chemicals production from shale gas by integrating with bioethanol dehydration: Novel process design and simulation-based optimization. <i>AIChE Journal</i> , <b>2015</b> , 61, 1209-1232                            | 3.6  | 59  |
| 96  | Integrated planning and scheduling under production uncertainties: Bi-level model formulation and hybrid solution method. <i>Computers and Chemical Engineering</i> , <b>2015</b> , 72, 255-272                                                              | 4    | 64  |
| 95  | Simulation-based optimization framework for multi-echelon inventory systems under uncertainty. <i>Computers and Chemical Engineering</i> , <b>2015</b> , 73, 1-16                                                                                            | 4    | 43  |
| 94  | Multiobjective optimization of product and process networks: General modeling framework, efficient global optimization algorithm, and case studies on bioconversion. <i>AIChE Journal</i> , <b>2015</b> , 61, 530-554                                        | 3.6  | 76  |
| 93  | A novel adaptive surrogate modeling-based algorithm for simultaneous optimization of sequential batch process scheduling and dynamic operations. <i>AIChE Journal</i> , <b>2015</b> , 61, 4191-4209                                                          | 3.6  | 16  |

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| 92 | Deciphering and handling uncertainty in shale gas supply chain design and optimization: Novel modeling framework and computationally efficient solution algorithm. <i>AIChE Journal</i> , <b>2015</b> , 61, 3739-3755                                                                          | 3.6 | 60  |
| 91 | Value-added Chemicals from Microalgae: A Sustainable Process Design Using Life Cycle Optimization. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 1403-1408                                                                                                                    | 0.6 | 3   |
| 90 | Life Cycle Network Modeling Framework and Solution Algorithms for Systems Analysis and Optimization of the Water-Energy Nexus. <i>Processes</i> , <b>2015</b> , 3, 514-539                                                                                                                     | 2.9 | 18  |
| 89 | Stochastic programming approach to optimal design and operations of shale gas supply chain under uncertainty <b>2015</b> ,                                                                                                                                                                     |     | 1   |
| 88 | An efficient global optimization algorithm for mixed-integer nonlinear fractional programs with separable concave terms <b>2015</b> ,                                                                                                                                                          |     | 2   |
| 87 | Optimal design and operations of supply chain networks for water management in shale gas production: MILFP model and algorithms for the water-energy nexus. <i>AIChE Journal</i> , <b>2015</b> , 61, 1184-1208                                                                                 | 3.6 | 107 |
| 86 | Novel Optimization Model and Efficient Solution Method for Integrating Dynamic Optimization with Process Operations of Continuous Manufacturing Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 2167-2187                                                | 3.9 | 22  |
| 85 | Biomass-to-bioenergy and biofuel supply chain optimization: Overview, key issues and challenges. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 66, 36-56                                                                                                                           | 4   | 485 |
| 84 | Sustainable process design and synthesis of hydrocarbon biorefinery through fast pyrolysis and hydroprocessing. <i>AIChE Journal</i> , <b>2014</b> , 60, 980-994                                                                                                                               | 3.6 | 38  |
| 83 | Moving horizon approach of integrating scheduling and control for sequential batch processes. <i>AIChE Journal</i> , <b>2014</b> , 60, 1654-1671                                                                                                                                               | 3.6 | 35  |
| 82 | Stochastic Programming Approach to Optimal Design and Operations of Integrated Hydrocarbon Biofuel and Petroleum Supply Chains. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 49-61                                                                                      | 8.3 | 68  |
| 81 | Game-theoretic modeling and optimization of multi-echelon supply chain design and operation under Stackelberg game and market equilibrium. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 71, 347-364                                                                               | 4   | 105 |
| 80 | Integrated Scheduling and Dynamic Optimization by Stackelberg Game: Bilevel Model Formulation and Efficient Solution Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 5564-5581                                                                           | 3.9 | 34  |
| 79 | Optimal Design and Synthesis of Algal Biorefinery Processes for Biological Carbon Sequestration and Utilization with Zero Direct Greenhouse Gas Emissions: MINLP Model and Global Optimization Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 1563-1579 | 3.9 | 94  |
| 78 | Parametric algorithms for global optimization of mixed-integer fractional programming problems in process engineering <b>2014</b> ,                                                                                                                                                            |     | 1   |
| 77 | Biorefinery Supply Chain Network Design under Competitive Feedstock Markets: An Agent-Based Simulation and Optimization Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 1511-1512                                                                         | 3.9 | 29  |
| 76 | Sustainable Design and Operation of Cellulosic Bioelectricity Supply Chain Networks with Life Cycle Economic, Environmental, and Social Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 4008-4029                                                     | 3.9 | 96  |
| 75 | A novel hybrid feedstock to liquids and electricity process: Process modeling and exergoeconomic life cycle optimization. <i>AIChE Journal</i> , <b>2014</b> , 60, 3739-3753                                                                                                                   | 3.6 | 23  |

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| 74 | Integrated Planning, Scheduling, and Dynamic Optimization for Batch Processes: MINLP Model Formulation and Efficient Solution Methods via Surrogate Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 13391-13411 | 3.9 | 34  |
| 73 | Sustainable Design and Synthesis of Algal Biorefinery for Biofuel Production. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 1429-1434                                                                                                   | 0.6 | 1   |
| 72 | Computational evaluation of factors governing catalytic 2-keto acid decarboxylation. <i>Journal of Molecular Modeling</i> , <b>2014</b> , 20, 2310                                                                                                   | 2   |     |
| 71 | Global optimization for sustainable design and synthesis of algae processing network for CO2 mitigation and biofuel production using life cycle optimization. <i>AIChE Journal</i> , <b>2014</b> , 60, 3195-3210                                     | 3.6 | 110 |
| 70 | Shale Gas Processing Integrated with Ethylene Production: Novel Process Designs, Exergy Analysis, and Techno-Economic Analysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 11442-11459                               | 3.9 | 111 |
| 69 | Robust design and operations of hydrocarbon biofuel supply chain integrating with existing petroleum refineries considering unit cost objective. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 68, 1284-139                              |     | 88  |
| 68 | Domestic and overseas manufacturing scenarios of silicon-based photovoltaics: Life cycle energy and environmental comparative analysis. <i>Solar Energy</i> , <b>2014</b> , 105, 669-678                                                             | 6.8 | 103 |
| 67 | Optimal Design and Operational Planning of Responsive Process Supply Chains <b>2014</b> , 107-134                                                                                                                                                    |     |     |
| 66 | Functional-unit-based Life Cycle Optimization for Design of Sustainable Product Systems with Application on Biofuel Supply Chains. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 33, 1063-1068                                          | 0.6 | 1   |
| 65 | Functional-unit-based life cycle optimization of sustainable biomass-to-electricity supply chain with economic and environmental tradeoffs. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 651-656                                       | 0.6 | 4   |
| 64 | Making transportation fuels and electricity from non-petroleum-based hybrid processes: process design and optimization. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 34, 537-542                                                       | 0.6 | 1   |
| 63 | MINLP model and algorithm for superstructure optimization of algae processing network. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 34, 531-536                                                                                        | 0.6 |     |
| 62 | Simulation-based optimization for multi-echelon inventory systems under uncertainty <b>2014</b> ,                                                                                                                                                    |     | 4   |
| 61 | Simulation-based method for optimizing multi-echelon inventory systems <b>2014</b> ,                                                                                                                                                                 |     | 2   |
| 60 | Integrated planning and scheduling by hybrid solution method <b>2014</b> ,                                                                                                                                                                           |     | 1   |
| 59 | Optimization of water management in shale gas production process <b>2014</b> ,                                                                                                                                                                       |     | 2   |
| 58 | Integrated Scheduling and Dynamic Optimization for Network Batch Processes. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 33, 523-528                                                                                                   | 0.6 | 2   |
| 57 | Parametric Solution Algorithms for Large-Scale Mixed-Integer Fractional Programming Problems and Applications in Process Systems Engineering. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 33, 259-264                                 | 0.6 | 2   |

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| 56 | Hybrid agent-based method for scheduling of complex batch processes <b>2014</b> ,                                                                                                                                                                                        |     | 1   |
| 55 | Fair profit allocation in supply chain optimization with transfer price and revenue sharing: MINLP model and algorithm for cellulosic biofuel supply chains. <i>AICHE Journal</i> , <b>2014</b> , 60, 3211-3229                                                          | 3.6 | 44  |
| 54 | Reformulation-linearization Method for Global Optimization of Mixed Integer Linear Fractional Programming Problems with Application on Sustainable Batch Scheduling. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 949-954                                  | 0.6 | 1   |
| 53 | Hybrid method integrating agent-based modeling and heuristic tree search for scheduling of complex batch processes. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 60, 277-296                                                                                | 4   | 34  |
| 52 | Globally convergent exact and inexact parametric algorithms for solving large-scale mixed-integer fractional programs and applications in process systems engineering. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 61, 90-101                              | 4   | 53  |
| 51 | Optimal design of advanced drop-in hydrocarbon biofuel supply chain integrating with existing petroleum refineries under uncertainty. <i>Biomass and Bioenergy</i> , <b>2014</b> , 60, 108-120                                                                           | 5.3 | 79  |
| 50 | Optimal Superstructure-Based Design and Synthesis of Hydrocarbon Biorefinery via Fast Pyrolysis, Hydrogen Production and Hydroprocessing Pathway. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 33, 175-180                                                 | 0.6 | 2   |
| 49 | The case for organic photovoltaics. <i>RSC Advances</i> , <b>2013</b> , 3, 17633                                                                                                                                                                                         | 3.7 | 442 |
| 48 | Sustainable design and synthesis of algae-based biorefinery for simultaneous hydrocarbon biofuel production and carbon sequestration. <i>AICHE Journal</i> , <b>2013</b> , 59, 1599-1621                                                                                 | 3.6 | 116 |
| 47 | Sustainable scheduling of batch processes under economic and environmental criteria with MINLP models and algorithms. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 54, 44-59                                                                                | 4   | 51  |
| 46 | Multicut Benders decomposition algorithm for process supply chain planning under uncertainty. <i>Annals of Operations Research</i> , <b>2013</b> , 210, 191-211                                                                                                          | 3.2 | 66  |
| 45 | Planning and scheduling of flexible process networks under uncertainty with stochastic inventory: MINLP models and algorithm. <i>AICHE Journal</i> , <b>2013</b> , 59, 1511-1532                                                                                         | 3.6 | 69  |
| 44 | Sustainable design and synthesis of hydrocarbon biorefinery via gasification pathway: Integrated life cycle assessment and techno-economic analysis with multiobjective superstructure optimization. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 52, 55-76 | 4   | 153 |
| 43 | Integration of production scheduling and dynamic optimization for multi-product CSTRs: Generalized Benders decomposition coupled with global mixed-integer fractional programming. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 58, 315-333                 | 4   | 69  |
| 42 | Design of Biofuel Supply Chains under Uncertainty with Multiobjective Stochastic Programming Models and Decomposition Algorithm. <i>Computer Aided Chemical Engineering</i> , <b>2013</b> , 493-498                                                                      | 0.6 | 6   |
| 41 | Life cycle optimization for sustainable design and operations of hydrocarbon biorefinery via fast pyrolysis, hydrotreating and hydrocracking. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 50, 71-91                                                        | 4   | 121 |
| 40 | Efficient scheduling method of complex batch processes with general network structure via agent-based modeling. <i>AICHE Journal</i> , <b>2013</b> , 59, 2884-2906                                                                                                       | 3.6 | 40  |
| 39 | Integrated Scheduling and Dynamic Optimization of Complex Batch Processes with General Network Structure Using a Generalized Benders Decomposition Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 7867-7885                        | 3.9 | 38  |



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| 38 | Global optimization of large-scale mixed-integer linear fractional programming problems: A reformulation-linearization method and process scheduling applications. <i>AIChE Journal</i> , <b>2013</b> , 59, 4255-4272                                                                                           | 3.6  | 46  |
| 37 | Design of Sustainable Product Systems and Supply Chains with Life Cycle Optimization Based on Functional Unit: General Modeling Framework, Mixed-Integer Nonlinear Programming Algorithms and Case Study on Hydrocarbon Biofuels. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 1003-1014 | 8.3  | 135 |
| 36 | Integration of Scheduling and Dynamic Optimization of Batch Processes under Uncertainty: Two-Stage Stochastic Programming Approach and Enhanced Generalized Benders Decomposition Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 16851-16869                             | 3.9  | 41  |
| 35 | Integrated Scheduling and Dynamic Optimization of Sequential Batch Processes with Online Implementation. <i>AIChE Journal</i> , <b>2013</b> , 59, 2379-2406                                                                                                                                                     | 3.6  | 30  |
| 34 | Integrated scheduling and control of a polymerization reactor with online closed-loop implementation. <i>Computer Aided Chemical Engineering</i> , <b>2013</b> , 481-486                                                                                                                                        | 0.6  | 2   |
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| 32 | Efficient scheduling method of complex batch processes with general network structure via agent-based modeling <b>2013</b> , 59, 2884                                                                                                                                                                           |      | 0   |
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| 30 | Integration of scheduling and control with online closed-loop implementation: Fast computational strategy and large-scale global optimization algorithm. <i>Computers and Chemical Engineering</i> , <b>2012</b> , 47, 248-268                                                                                  | 4    | 91  |
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| 22 | Stochastic inventory management for tactical process planning under uncertainties: MINLP models and algorithms. <i>AIChE Journal</i> , <b>2011</b> , 57, 1250-1277                                                                                                                                              | 3.6  | 82  |
| 21 | Mixed-integer dynamic optimization for oil-spill response planning with integration of a dynamic oil weathering model. <i>AIChE Journal</i> , <b>2011</b> , 57, 3555-3564                                                                                                                                       | 3.6  | 27  |

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| 19 | Multisite Capacity, Production, and Distribution Planning with Reactor Modifications: MILP Model, Bilevel Decomposition Algorithm versus Lagrangean Decomposition Scheme. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 4831-4849 | 3.9  | 40  |
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| 12 | Dinkelbach's algorithm as an efficient method to solve a class of MINLP models for large-scale cyclic scheduling problems. <i>Computers and Chemical Engineering</i> , <b>2009</b> , 33, 1879-1889                                                             | 4    | 74  |
| 11 | Mixed-Integer Nonlinear Programming Models and Algorithms for Large-Scale Supply Chain Design with Stochastic Inventory Management. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 7802-7817                                       | 3.9  | 102 |
| 10 | Design of responsive supply chains under demand uncertainty. <i>Computers and Chemical Engineering</i> , <b>2008</b> , 32, 3090-3111                                                                                                                           | 4    | 174 |
| 9  | Structure and adsorption of a hard-core multi-Yukawa fluid confined in a slitlike pore: grand canonical Monte Carlo simulation and density functional study. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 334-41                                | 3.4  | 50  |
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| 1 | Perspectives of quantum computing for chemical engineering. <i>AIChE Journal</i> , | 3.6 1 |