

Iftekhar Karimi

List of Publications by Citations

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ext. citations

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| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 294 | A Review of Clathrate Hydrate Based Desalination To Strengthen Energy-Water Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8093-8107 | 8.3 | 163 |
| 293 | CO2 capture from dry flue gas by vacuum swing adsorption: A pilot plant study. <i>AICHE Journal</i> , 2014 , 60, 1830-1842 | 3.6 | 153 |
| 292 | Agent-based supply chain management: framework. <i>Computers and Chemical Engineering</i> , 2002 , 26, 1755-1769 | 4 | 149 |
| 291 | A simpler better slot-based continuous-time formulation for short-term scheduling in multipurpose batch plants. <i>Chemical Engineering Science</i> , 2005 , 60, 2679-2702 | 4.4 | 148 |
| 290 | Multiobjective Optimization of a Four-Step Adsorption Process for Postcombustion CO2 Capture Via Finite Volume Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4249-4265 | 3.9 | 136 |
| 289 | Design of computer experiments: A review. <i>Computers and Chemical Engineering</i> , 2017 , 106, 71-95 | 4 | 132 |
| 288 | LNG cold energy utilization: Prospects and challenges. <i>Energy</i> , 2019 , 170, 557-568 | 7.9 | 127 |
| 287 | Planning and Scheduling of Parallel Semicontinuous Processes. 1. Production Planning. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 2691-2700 | 3.9 | 122 |
| 286 | Planning and Scheduling of Parallel Semicontinuous Processes. 2. Short-Term Scheduling. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 2701-2714 | 3.9 | 119 |
| 285 | A new continuous-time formulation for scheduling crude oil operations. <i>Chemical Engineering Science</i> , 2004 , 59, 1325-1341 | 4.4 | 109 |
| 284 | An Improved MILP Formulation for Scheduling Multiproduct, Multistage Batch Plants. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2365-2380 | 3.9 | 106 |
| 283 | Piecewise MILP under- and overestimators for global optimization of bilinear programs. <i>AICHE Journal</i> , 2008 , 54, 991-1008 | 3.6 | 101 |
| 282 | Cycle synthesis and optimization of a VSA process for postcombustion CO2 capture. <i>AICHE Journal</i> , 2013 , 59, 4735-4748 | 3.6 | 100 |
| 281 | Novel solution approach for optimizing crude oil operations. <i>AICHE Journal</i> , 2004 , 50, 1177-1197 | 3.6 | 100 |
| 280 | Agent-based supply chain management: a refinery application. <i>Computers and Chemical Engineering</i> , 2002 , 26, 1771-1781 | 4 | 92 |
| 279 | Operational modeling of multistream heat exchangers with phase changes. <i>AICHE Journal</i> , 2009 , 55, 150-171 | 3.6 | 87 |
| 278 | A novel conceptual design of hydrate based desalination (HyDesal) process by utilizing LNG cold energy. <i>Applied Energy</i> , 2018 , 222, 13-24 | 10.7 | 85 |

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| 277 | Review on the design and optimization of natural gas liquefaction processes for onshore and offshore applications. <i>Chemical Engineering Research and Design</i> , 2018 , 132, 89-114 | 5.5 | 80 |
| 276 | Evaluation of utilization alternatives for stranded natural gas. <i>Energy</i> , 2012 , 40, 317-328 | 7.9 | 79 |
| 275 | Integrated supply chain planning for multinational pharmaceutical enterprises. <i>Computers and Chemical Engineering</i> , 2012 , 42, 168-177 | 4 | 78 |
| 274 | Evolution and optimization of the dual mixed refrigerant process of natural gas liquefaction. <i>Applied Thermal Engineering</i> , 2016 , 96, 320-329 | 5.8 | 75 |
| 273 | Heat exchanger network synthesis using a stagewise superstructure with non-isothermal mixing. <i>Chemical Engineering Science</i> , 2012 , 73, 30-43 | 4.4 | 74 |
| 272 | Retrospective and future perspective of natural gas liquefaction and optimization technologies contributing to efficient LNG supply: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 165-188 | 4.6 | 71 |
| 271 | Long-term optimal energy mix planning towards high energy security and low GHG emission. <i>Applied Energy</i> , 2015 , 154, 959-969 | 10.7 | 68 |
| 270 | Preliminary design of multiproduct noncontinuous plants using simulated annealing. <i>Computers and Chemical Engineering</i> , 1991 , 15, 451-469 | 4 | 68 |
| 269 | Improving the robustness and efficiency of crude scheduling algorithms. <i>AIChE Journal</i> , 2007 , 53, 2659-2680 | 3.6 | 67 |
| 268 | Genome-scale modeling and in silico analysis of ethanogenic bacteria <i>Zymomonas mobilis</i> . <i>Biotechnology and Bioengineering</i> , 2011 , 108, 655-65 | 4.9 | 65 |
| 267 | Scheduling in serial multiproduct batch processes with finite interstage storage: mixed integer linear program formulation. <i>Industrial & Engineering Chemistry Research</i> , 1988 , 27, 1840-1848 | 3.9 | 65 |
| 266 | Minimizing Boil-Off Losses in Liquefied Natural Gas Transportation. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9571-9580 | 3.9 | 62 |
| 265 | Genome-scale modeling and in silico analysis of mouse cell metabolic network. <i>Molecular BioSystems</i> , 2010 , 6, 152-61 | | 61 |
| 264 | Improving the logistics of multi-compartment chemical tankers. <i>Computers and Chemical Engineering</i> , 2004 , 28, 1267-1283 | 4 | 60 |
| 263 | A novel approach to scheduling multipurpose batch plants using unit-slots. <i>AIChE Journal</i> , 2009 , 56, 1859-1879 | 3.6 | 59 |
| 262 | An evaluation of simulated annealing for batch process scheduling. <i>Industrial & Engineering Chemistry Research</i> , 1991 , 30, 163-169 | 3.9 | 58 |
| 261 | A novel conceptual design of parallel nitrogen expansion liquefaction process for small-scale LNG (liquefied natural gas) plant in skid-mount packages. <i>Energy</i> , 2014 , 75, 349-359 | 7.9 | 57 |
| 260 | Scheduling multistage, multiproduct batch plants with nonidentical parallel units and unlimited intermediate storage. <i>Chemical Engineering Science</i> , 2007 , 62, 1549-1566 | 4.4 | 57 |

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| 259 | Preliminary synthesis of work exchange networks. <i>Computers and Chemical Engineering</i> , 2012 , 37, 262-277 | | 56 |
| 258 | Fast biodegradation of long chain n-alkanes and crude oil at high concentrations with <i>Rhodococcus</i> sp. Moj-3449. <i>Enzyme and Microbial Technology</i> , 2009 , 45, 195-202 | 3.8 | 56 |
| 257 | Scheduling multistage batch plants with parallel units and no interstage storage. <i>Computers and Chemical Engineering</i> , 2008 , 32, 671-693 | 4 | 55 |
| 256 | Piecewise linear relaxation of bilinear programs using bivariate partitioning. <i>AIChE Journal</i> , 2009 , 56, 1880-1893 | 3.6 | 54 |
| 255 | Economic evaluation of energy efficient hydrate based desalination utilizing cold energy from liquefied natural gas (LNG). <i>Desalination</i> , 2019 , 463, 69-80 | 10.3 | 53 |
| 254 | Simultaneous synthesis approaches for cost-effective heat exchanger networks. <i>Chemical Engineering Science</i> , 2013 , 98, 231-245 | 4.4 | 53 |
| 253 | Decision support for integrated refinery supply chains: Part 1. Dynamic simulation. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2767-2786 | 4 | 51 |
| 252 | Energy and cost estimates for capturing CO ₂ from a dry flue gas using pressure/vacuum swing adsorption. <i>Chemical Engineering Research and Design</i> , 2015 , 102, 354-367 | 5.5 | 50 |
| 251 | Energy penalty estimates for CO ₂ capture: Comparison between fuel types and capture-combustion modes. <i>Energy</i> , 2016 , 103, 709-714 | 7.9 | 50 |
| 250 | Modeling and Experimental Validation of Electrochemical Reduction of CO ₂ to CO in a Microfluidic Cell. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F23-F32 | 3.9 | 49 |
| 249 | A model-based rescheduling framework for managing abnormal supply chain events. <i>Computers and Chemical Engineering</i> , 2007 , 31, 496-518 | 4 | 49 |
| 248 | Regulatory Factors and Capacity-Expansion Planning in Global Chemical Supply Chains. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 3364-3380 | 3.9 | 48 |
| 247 | Design of multiproduct batch processes with finite intermediate storage. <i>Computers and Chemical Engineering</i> , 1989 , 13, 127-139 | 4 | 48 |
| 246 | Scheduling Gasoline Blending Operations from Recipe Determination to Shipping Using Unit Slots. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9156-9174 | 3.9 | 45 |
| 245 | Characterizing <i>Escherichia coli</i> DH5alpha growth and metabolism in a complex medium using genome-scale flux analysis. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 923-34 | 4.9 | 45 |
| 244 | Scheduling Parallel Production Lines with Resource Constraints. 1. Model Formulation. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 779-789 | 3.9 | 45 |
| 243 | Process Synthesis and Optimization of Propylene/Propane Separation Using Vapor Recompression and Self-Heat Recuperation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 14557-14564 | 3.9 | 43 |
| 242 | Optimal producer well placement and production planning in an oil reservoir. <i>Computers and Chemical Engineering</i> , 2013 , 55, 109-125 | 4 | 43 |

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| 241 | Heuristic rescheduling of crude oil operations to manage abnormal supply chain events. <i>AICHE Journal</i> , 2007 , 53, 397-422 | 3.6 | 43 |
| 240 | Decision support for integrated refinery supply chains. <i>Computers and Chemical Engineering</i> , 2008 , 32, 2787-2800 | 4 | 42 |
| 239 | Gas turbine performance prediction via machine learning. <i>Energy</i> , 2020 , 192, 116627 | 7.9 | 42 |
| 238 | Efficient algorithm for simultaneous synthesis of heat exchanger networks. <i>Chemical Engineering Science</i> , 2014 , 105, 53-68 | 4.4 | 41 |
| 237 | Smart Sampling Algorithm for Surrogate Model Development. <i>Computers and Chemical Engineering</i> , 2017 , 96, 103-114 | 4 | 41 |
| 236 | A CFD simulation study of boiling mechanism and BOG generation in a full-scale LNG storage tank. <i>Computers and Chemical Engineering</i> , 2018 , 115, 112-120 | 4 | 40 |
| 235 | New operating strategy for a combined cycle gas turbine power plant. <i>Energy Conversion and Management</i> , 2018 , 171, 1675-1684 | 10.6 | 39 |
| 234 | A linear diversity constraint Application to scheduling in microgrids. <i>Energy</i> , 2011 , 36, 4235-4243 | 7.9 | 38 |
| 233 | Resource-Constrained Scheduling of Parallel Production Lines Using Asynchronous Slots. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 6832-6842 | 3.9 | 38 |
| 232 | In silico modeling and evaluation of <i>Gordonia alkanivorans</i> for biodesulfurization. <i>Molecular BioSystems</i> , 2013 , 9, 2530-40 | | 36 |
| 231 | Roles of sulfite oxidoreductase and sulfite reductase in improving desulfurization by <i>Rhodococcus erythropolis</i> . <i>Molecular BioSystems</i> , 2012 , 8, 2724-32 | | 36 |
| 230 | Supply chain risk identification using a HAZOP-based approach. <i>AICHE Journal</i> , 2009 , 55, 1447-1463 | 3.6 | 36 |
| 229 | CO ₂ capture in cation-exchanged metal-organic frameworks: Holistic modeling from molecular simulation to process optimization. <i>Chemical Engineering Science</i> , 2015 , 124, 70-78 | 4.4 | 35 |
| 228 | Work-heat exchanger network synthesis (WHENS). <i>Energy</i> , 2016 , 113, 1006-1017 | 7.9 | 35 |
| 227 | Completion times in serial mixed-storage multiproduct processes with transfer and set-up times. <i>Computers and Chemical Engineering</i> , 1989 , 13, 175-186 | 4 | 34 |
| 226 | Cascade utilization of LNG cold energy by integrating cryogenic energy storage, organic Rankine cycle and direct cooling. <i>Applied Energy</i> , 2020 , 277, 115570 | 10.7 | 34 |
| 225 | Global multiproduct production Distribution planning with duty drawbacks. <i>AICHE Journal</i> , 2006 , 52, 595-610 | 3.6 | 33 |
| 224 | Completion time algorithms for serial multiproduct batch processes with shared storage. <i>Computers and Chemical Engineering</i> , 1990 , 14, 49-69 | 4 | 33 |

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| 223 | Intermediate storage in noncontinuous processes involving stages of parallel units. <i>AICHE Journal</i> , 1985 , 31, 44-52 | 3.6 | 33 |
| 222 | Dynamic modelling and optimization of an LNG storage tank in a regasification terminal with semi-analytical solutions for N2-free LNG. <i>Computers and Chemical Engineering</i> , 2017 , 99, 40-50 | 4 | 32 |
| 221 | Planning in Pharmaceutical Supply Chains with Outsourcing and New Product Introductions. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 8293-8306 | 3.9 | 32 |
| 220 | Assessing the potential of CO2 utilization with an integrated framework for producing power and chemicals. <i>Journal of CO2 Utilization</i> , 2017 , 19, 49-57 | 7.6 | 31 |
| 219 | Selection of Liquefied Natural Gas (LNG) Contracts for Minimizing Procurement Cost. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10298-10312 | 3.9 | 31 |
| 218 | Scheduling in serial multiproduct batch processes with due-date penalties. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 580-590 | 3.9 | 31 |
| 217 | An ontology framework towards decentralized information management for eco-industrial parks. <i>Computers and Chemical Engineering</i> , 2018 , 118, 49-63 | 4 | 30 |
| 216 | Propylene/Propane Separation Using SiCHA. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3877-3892 | 3.9 | 30 |
| 215 | Binary and Ternary Adsorption Kinetics of Gases in Carbon Molecular Sieves. <i>Langmuir</i> , 2003 , 19, 5722-5734 | 3.4 | 30 |
| 214 | Simulating combined cycle gas turbine power plants in Aspen HYSYS. <i>Energy Conversion and Management</i> , 2018 , 171, 1213-1225 | 10.6 | 30 |
| 213 | A novel inlet air cooling system based on liquefied natural gas cold energy utilization for improving power plant performance. <i>Energy Conversion and Management</i> , 2019 , 187, 41-52 | 10.6 | 29 |
| 212 | An MILP Approach to Automated Wet-Etch Station Scheduling. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 1391-1399 | 3.9 | 29 |
| 211 | Identification of Transport Mechanism in Adsorbent Micropores from Column Dynamics. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 1098-1106 | 3.9 | 29 |
| 210 | Process systems engineering perspective on the planning and development of oil fields. <i>AICHE Journal</i> , 2016 , 62, 2586-2604 | 3.6 | 28 |
| 209 | A genome-scale metabolic model of <i>Methanococcus maripaludis</i> S2 for CO2 capture and conversion to methane. <i>Molecular BioSystems</i> , 2014 , 10, 1043-54 | | 28 |
| 208 | An Analysis of Some Unit-Specific Event-Based Models for the Short-Term Scheduling of Noncontinuous Processes. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 633-647 | 3.9 | 28 |
| 207 | Scheduling a Two-Stage Multiproduct Process with Limited Product Shelf Life in Intermediate Storage. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 490-508 | 3.9 | 28 |
| 206 | Dual-effect single-mixed refrigeration cycle: An innovative alternative process for energy-efficient and cost-effective natural gas liquefaction. <i>Applied Energy</i> , 2020 , 268, 115022 | 10.7 | 28 |

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| 205 | Metabolic processes of Methanococcus maripaludis and potential applications. <i>Microbial Cell Factories</i> , 2016 , 15, 107 | 6.4 | 28 |
| 204 | Sequential coordinate random search for optimal operation of LNG (liquefied natural gas) plant. <i>Energy</i> , 2015 , 89, 757-767 | 7.9 | 27 |
| 203 | Simulation and optimization of a combined cycle gas turbine power plant for part-load operation. <i>Chemical Engineering Research and Design</i> , 2018 , 131, 29-40 | 5.5 | 27 |
| 202 | Reconstruction of a genome-scale metabolic network of Rhodococcus erythropolis for desulfurization studies. <i>Molecular BioSystems</i> , 2011 , 7, 3122-31 | | 27 |
| 201 | Heuristic algorithms for scheduling an automated wet-etch station. <i>Computers and Chemical Engineering</i> , 2004 , 28, 363-379 | 4 | 27 |
| 200 | Scheduling Parallel Production Lines with Resource Constraints. 2. Decomposition Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 790-800 | 3.9 | 27 |
| 199 | Supply chain redesign and new process introduction in multipurpose plants. <i>Chemical Engineering Science</i> , 2010 , 65, 2596-2607 | 4.4 | 26 |
| 198 | Efficient bulk maritime logistics for the supply and delivery of multiple chemicals. <i>Computers and Chemical Engineering</i> , 2010 , 34, 2118-2128 | 4 | 25 |
| 197 | LEAPS2: Learning based Evolutionary Assistive Paradigm for Surrogate Selection. <i>Computers and Chemical Engineering</i> , 2018 , 119, 352-370 | 4 | 25 |
| 196 | Towards an ontological infrastructure for chemical process simulation and optimization in the context of eco-industrial parks. <i>Applied Energy</i> , 2017 , 204, 1284-1298 | 10.7 | 24 |
| 195 | Framework for work-heat exchange network synthesis (WHENS). <i>AIChE Journal</i> , 2018 , 64, 2472-2485 | 3.6 | 24 |
| 194 | Economic Feasibility of Power Generation by Recovering Cold Energy during LNG (Liquefied Natural Gas) Regasification. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 10687-10695 | 8.3 | 24 |
| 193 | Integrated Oil-Field Management: From Well Placement and Planning to Production Scheduling. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 978-994 | 3.9 | 23 |
| 192 | Strain improvement and process development for biobutanol production. <i>Recent Patents on Biotechnology</i> , 2009 , 3, 202-10 | 2.2 | 23 |
| 191 | Combined data preprocessing and multivariate statistical analysis characterizes fed-batch culture of mouse hybridoma cells for rational medium design. <i>Journal of Biotechnology</i> , 2010 , 150, 94-100 | 3.7 | 23 |
| 190 | Supply chain redesign through optimal asset management and capital budgeting. <i>Computers and Chemical Engineering</i> , 2008 , 32, 3153-3169 | 4 | 23 |
| 189 | Planning production on a single processor with sequence-dependent setups part 1: determination of campaigns. <i>Computers and Chemical Engineering</i> , 2001 , 25, 1021-1030 | 4 | 23 |
| 188 | Elucidation of metabolism in hybridoma cells grown in fed-batch culture by genome-scale modeling. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1494-504 | 4.9 | 22 |

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| 187 | Optimal Contract Selection for the Global Supply and Distribution of Raw Materials. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 6522-6539 | 3.9 | 22 |
| 186 | Novel continuous-time formulations for scheduling multi-stage batch plants with identical parallel units. <i>Computers and Chemical Engineering</i> , 2007 , 31, 1671-1693 | 4 | 22 |
| 185 | Shared and practical approach to conserve utilities in eco-industrial parks. <i>Computers and Chemical Engineering</i> , 2016 , 93, 221-233 | 4 | 22 |
| 184 | Well Placement, Infrastructure Design, Facility Allocation, and Production Planning in Multireservoir Oil Fields with Surface Facility Networks. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11033-11049 | 3.9 | 21 |
| 183 | Preliminary Synthesis of Fuel Gas Networks to Conserve Energy and Preserve the Environment. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 7414-7427 | 3.9 | 21 |
| 182 | Optimal selection of intermediate storage tank capacity in a periodic batch/semicontinuous process. <i>AIChE Journal</i> , 1983 , 29, 588-596 | 3.6 | 21 |
| 181 | Minimizing Power Consumption Related to BOG Reliquefaction in an LNG Regasification Terminal. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7431-7445 | 3.9 | 21 |
| 180 | Impact of mixed refrigerant selection on energy and exergy performance of natural gas liquefaction processes. <i>Energy</i> , 2020 , 199, 117378 | 7.9 | 20 |
| 179 | Nonisothermal Pore Diffusion Model for a Kinetically Controlled Pressure Swing Adsorption Process. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10659-10670 | 3.9 | 20 |
| 178 | Minimize Flaring through Integration with Fuel Gas Networks. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 12630-12641 | 3.9 | 20 |
| 177 | Flux-based analysis of sulfur metabolism in desulfurizing strains of <i>Rhodococcus erythropolis</i> . <i>FEMS Microbiology Letters</i> , 2011 , 315, 115-21 | 2.9 | 20 |
| 176 | Comparing SiCHA and 4A Zeolite for Propylene/Propane Separation using a Surrogate-Based Simulation/Optimization Approach. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 16973-16983 | 3.9 | 19 |
| 175 | Improved Synthesis of Hydrogen Networks for Refineries. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 16948-16963 | 3.9 | 19 |
| 174 | NADPH-dependent <i>pgi</i> -gene knockout <i>Escherichia coli</i> metabolism producing shikimate on different carbon sources. <i>FEMS Microbiology Letters</i> , 2011 , 324, 10-6 | 2.9 | 19 |
| 173 | Efficient heuristics for inventory placement in acyclic networks. <i>Computers and Operations Research</i> , 2009 , 36, 2899-2904 | 4.6 | 19 |
| 172 | Web-based applications for building, managing and analysing kinetic models of biological systems. <i>Briefings in Bioinformatics</i> , 2009 , 10, 65-74 | 13.4 | 19 |
| 171 | An online decision support framework for managing abnormal supply chain events. <i>Computer Aided Chemical Engineering</i> , 2005 , 985-990 | 0.6 | 19 |
| 170 | Prediction of binary gas diffusion in carbon molecular sieves at high pressure. <i>AIChE Journal</i> , 2004 , 50, 351-367 | 3.6 | 19 |

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| 169 | Scheduling tank container movements for chemical logistics. <i>AIChE Journal</i> , 2005 , 51, 178-197 | 3.6 | 19 |
| 168 | A superstructure-based model for multistream heat exchanger design within flow sheet optimization. <i>AIChE Journal</i> , 2017 , 63, 3764-3777 | 3.6 | 18 |
| 167 | Scheduling algorithms for serial multiproduct batch processes with tardiness penalties. <i>Computers and Chemical Engineering</i> , 1991 , 15, 283-286 | 4 | 18 |
| 166 | Optimal Cycle Times in Multistage Serial Systems with Set-Up and Inventory Costs. <i>Management Science</i> , 1992 , 38, 1467-1481 | 3.9 | 18 |
| 165 | Heating Value Reduction of LNG (Liquefied Natural Gas) by Recovering Heavy Hydrocarbons: Technoeconomic Analyses Using Simulation-Based Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 5924-5932 | 3.9 | 17 |
| 164 | An improved formulation for scheduling an automated wet-etch station. <i>Computers and Chemical Engineering</i> , 2004 , 29, 217-224 | 4 | 17 |
| 163 | A Slot-Based Formulation for Single-Stage Multiproduct Batch Plants with Multiple Orders per Product. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 1914-1924 | 3.9 | 17 |
| 162 | Optimal design of batch plants with single production routes. <i>Industrial & Engineering Chemistry Research</i> , 1989 , 28, 1191-1202 | 3.9 | 17 |
| 161 | Parameterisation of a biodiesel plant process flow sheet model. <i>Computers and Chemical Engineering</i> , 2016 , 95, 108-122 | 4 | 17 |
| 160 | Parametric optimization with uncertainty on the left hand side of linear programs. <i>Computers and Chemical Engineering</i> , 2014 , 60, 31-40 | 4 | 16 |
| 159 | Scheduling Trans-shipment Operations in Maritime Chemical Transportation. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1955-1973 | 3.9 | 16 |
| 158 | Optimization of helium extraction processes integrated with nitrogen removal units: A comparative study. <i>Computers and Chemical Engineering</i> , 2019 , 121, 354-366 | 4 | 16 |
| 157 | Recipe determination and scheduling of gasoline blending operations. <i>AIChE Journal</i> , 2009 , 56, NA-NA | 3.6 | 15 |
| 156 | Investment portfolios under uncertainty for utilizing natural gas resources. <i>Computers and Chemical Engineering</i> , 2011 , 35, 1827-1837 | 4 | 15 |
| 155 | Modeling and simulation of main cryogenic heat exchanger in a base-load liquefied natural gas plant. <i>Computer Aided Chemical Engineering</i> , 2007 , 24, 219-224 | 0.6 | 15 |
| 154 | Modeling and Monte Carlo simulation of TCDD transport in a river. <i>Water Research</i> , 2001 , 35, 1263-79 | 12.5 | 15 |
| 153 | Deterministic variability analysis for intermediate storage in noncontinuous processes. Part I: Allowability conditions. <i>AIChE Journal</i> , 1985 , 31, 1516-1527 | 3.6 | 15 |
| 152 | Exergoeconomic analysis and optimization of a Gas Turbine-Modular Helium Reactor with new organic Rankine cycle for efficient design and operation. <i>Energy Conversion and Management</i> , 2020 , 204, 112311 | 10.6 | 15 |

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| 151 | Simulation-based approach for integrating work within heat exchange networks for sub-ambient processes. <i>Energy Conversion and Management</i> , 2020 , 203, 112276 | 10.6 | 15 |
| 150 | Improving design and operation at LNG regasification terminals through a corrected storage tank model. <i>Applied Thermal Engineering</i> , 2019 , 149, 344-353 | 5.8 | 15 |
| 149 | Retrofit Design of Hydrogen Network in Refineries: Mathematical Model and Global Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4996-5023 | 3.9 | 14 |
| 148 | Genome-scale metabolic network reconstruction and in silico flux analysis of the thermophilic bacterium <i>Thermus thermophilus</i> HB27. <i>Microbial Cell Factories</i> , 2014 , 13, 61 | 6.4 | 14 |
| 147 | Integrated campaign planning and resource allocation in batch plants. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2990-3001 | 4 | 14 |
| 146 | From PSE to PSE2 Decision support for resilient enterprises. <i>Computers and Chemical Engineering</i> , 2009 , 33, 1939-1949 | 4 | 14 |
| 145 | Optimization of Compressor Networks in LNG Operations. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1767-1772 | 0.6 | 14 |
| 144 | Modeling support resistance in zeolite membranes. <i>Journal of Membrane Science</i> , 2001 , 186, 109-121 | 9.6 | 14 |
| 143 | Unified Heat Exchanger Network Synthesis via a Stageless Superstructure. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5984-6001 | 3.9 | 13 |
| 142 | Optimal cryogenic processes for nitrogen rejection from natural gas. <i>Computers and Chemical Engineering</i> , 2018 , 112, 101-111 | 4 | 13 |
| 141 | Design of biomass and natural gas based IGFC using multi-objective optimization. <i>Energy</i> , 2014 , 73, 635-652 | 7.9 | 13 |
| 140 | Optimizing Compressor Operations in an LNG Plant 2009 , 179-184 | | 13 |
| 139 | Effect of sorbate-sorbate interaction on micropore diffusion in steady-state adsorption processes. <i>Chemical Engineering Science</i> , 2000 , 55, 3529-3541 | 4.4 | 13 |
| 138 | Techno-Economic Evaluation of Cyclopentane Hydrate-Based Desalination with Liquefied Natural Gas Cold Energy Utilization. <i>Energy Technology</i> , 2020 , 8, 1900212 | 3.5 | 13 |
| 137 | Simulation of a combined cycle gas turbine power plant in Aspen HYSYS. <i>Energy Procedia</i> , 2019 , 158, 3620-3625 | 2.3 | 12 |
| 136 | Towards energy-efficient LNG terminals: Modeling and simulation of reciprocating compressors. <i>Computers and Chemical Engineering</i> , 2019 , 128, 312-321 | 4 | 12 |
| 135 | Locating exchangers in an EIP-wide heat integration network. <i>Computers and Chemical Engineering</i> , 2018 , 108, 57-73 | 4 | 12 |
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