

# Iftekhar Karimi

## 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.

294  
papers

7,144  
citations

48  
h-index

68  
g-index

311  
ext. papers

8,315  
ext. citations

3.8  
avg, IF

6.65  
L-index

#	Paper	IF	Citations
294	Estimating NOx emissions of useful two-fuel blends from literature data. <i>Fuel</i> , <b>2022</b> , 316, 123213	7.1	0
293	Effect of Cyclopentane and Graphite on the Kinetics of CO <sub>2</sub> /C <sub>3</sub> H <sub>8</sub> Formation for Hydrate-Based Desalination. <i>Lecture Notes in Civil Engineering</i> , <b>2022</b> , 400-408	0.3	
292	Study on Boil-off Gas (BOG) Minimization and Recovery Strategies from Actual Baseload LNG Export Terminal: Towards Sustainable LNG Chains. <i>Energies</i> , <b>2021</b> , 14, 3478	3.1	5
291	Organic Rankine cycle integrated with hydrate-based desalination for a sustainable energy/water nexus system. <i>Applied Energy</i> , <b>2021</b> , 291, 116839	10.7	6
290	Prospective of Upfront Nitrogen (N <sub>2</sub> ) Removal in LNG Plants: Technical Communication. <i>Energies</i> , <b>2021</b> , 14, 3616	3.1	1
289	Sustainability Assessment of Thermocatalytic Conversion of CO <sub>2</sub> to Transportation Fuels, Methanol, and 1-Propanol. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 10591-10600	8.3	8
288	State transients in storage systems for energy fluids. <i>Computers and Chemical Engineering</i> , <b>2021</b> , 144, 107128	4	3
287	Optimal Procurement of Liquefied Natural Gas Cargos from Long-Term Contracts and Spot Market through Mathematical Programming. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 3658-3669	3.9	2
286	Revised learning based evolutionary assistive paradigm for surrogate selection (LEAPSv2). <i>Computers and Chemical Engineering</i> , <b>2021</b> , 152, 107385	4	4
285	Teaching-learning self-study approach for optimal retrofitting of dual mixed refrigerant LNG process: Energy and exergy perspective. <i>Applied Energy</i> , <b>2021</b> , 298, 117187	10.7	4
284	Reducing Power Use in the Cold Section of LNG Plants. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 13056-13067	8.3	0
283	Techno-enviro-economic analyses of hydrogen supply chains with an ASEAN case study. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 32914-32928	6.7	0
282	Effects of cooling and heating sources properties and working fluid selection on cryogenic organic Rankine cycle for LNG cold energy utilization. <i>Energy Conversion and Management</i> , <b>2021</b> , 247, 114706	10.6	5
281	A critical review on measures to suppress flow boiling instabilities in microchannels. <i>Heat and Mass Transfer</i> , <b>2021</b> , 57, 889-910	2.2	7
280	Simulation and health monitoring of a pressure regulating station. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 139, 106824	4	4
279	Shuffled Complex Evolution-Based Performance Enhancement and Analysis of Cascade Liquefaction Process for Large-Scale LNG Production. <i>Energies</i> , <b>2020</b> , 13, 2511	3.1	6
278	Impact of mixed refrigerant selection on energy and exergy performance of natural gas liquefaction processes. <i>Energy</i> , <b>2020</b> , 199, 117378	7.9	20

277	Single-Solution-Based Vortex Search Strategy for Optimal Design of Offshore and Onshore Natural Gas Liquefaction Processes. <i>Energies</i> , <b>2020</b> , 13, 1732	3.1	11
276	Dual-effect single-mixed refrigeration cycle: An innovative alternative process for energy-efficient and cost-effective natural gas liquefaction. <i>Applied Energy</i> , <b>2020</b> , 268, 115022	10.7	28
275	A Parallel World Framework for scenario analysis in knowledge graphs. <i>Data-Centric Engineering</i> , <b>2020</b> , 1,	2.6	11
274	Wall superheat at the incipient nucleate boiling condition for natural and forced convection: A CFD approach. <i>Computers and Chemical Engineering</i> , <b>2020</b> , 134, 106718	4	4
273	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> , <b>2020</b> , 204, 112311	10.6	15
272	Simulation-based approach for integrating work within heat exchange networks for sub-ambient processes. <i>Energy Conversion and Management</i> , <b>2020</b> , 203, 112276	10.6	15
271	Gas turbine performance prediction via machine learning. <i>Energy</i> , <b>2020</b> , 192, 116627	7.9	42
270	First Observation of an Acetate Switch in a Methanogenic Autotroph (S2). <i>Microbiology Insights</i> , <b>2020</b> , 13, 1178636120945300	2.5	0
269	CFD Analysis of Stratification and Rollover Phenomena in an Industrial-Scale LNG Storage Tank. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 14126-14144	3.9	8
268	Cascade utilization of LNG cold energy by integrating cryogenic energy storage, organic Rankine cycle and direct cooling. <i>Applied Energy</i> , <b>2020</b> , 277, 115570	10.7	34
267	Techno-Economic Evaluation of Cyclopentane Hydrate-Based Desalination with Liquefied Natural Gas Cold Energy Utilization. <i>Energy Technology</i> , <b>2020</b> , 8, 1900212	3.5	13
266	A Surrogate-Assisted Approach for the Optimal Synthesis of Refinery Hydrogen Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 16798-16812	3.9	7
265	Simulation of a combined cycle gas turbine power plant in Aspen HYSYS. <i>Energy Procedia</i> , <b>2019</b> , 158, 3620-3625	2.3	12
264	Operational Optimization of Processes with Multistream Heat Exchangers Using Data-Driven Predictive Modeling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 5838-5850	3.9	7
263	Practically Useful Models for Kinetics of Biodiesel Production. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4983-4992	8.3	3
262	A novel cost-effective silica membrane-based process for helium extraction from natural gas. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 121, 633-638	4	5
261	Unified Heat Exchanger Network Synthesis via a Stageless Superstructure. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 5984-6001	3.9	13
260	Towards energy-efficient LNG terminals: Modeling and simulation of reciprocating compressors. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 128, 312-321	4	12

259	Economic evaluation of energy efficient hydrate based desalination utilizing cold energy from liquefied natural gas (LNG). <i>Desalination</i> , <b>2019</b> , 463, 69-80	10.3	53
258	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> , <b>2019</b> , 187, 41-52	10.6	29
257	Evaluating the Benefits of LNG Procurement through Spot Market Purchase. <i>Computer Aided Chemical Engineering</i> , <b>2019</b> , 1723-1728	0.6	0
256	Technoenergetic and Economic Analysis of CO <sub>2</sub> Conversion <b>2019</b> , 413-430		2
255	Surrogate-based black-box optimisation via domain exploration and smart placement. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 130, 106567	4	6
254	Technoeconomic Perspective on Natural Gas Liquids and Methanol as Potential Feedstocks for Producing Olefins. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 963-972	3.9	10
253	Improving design and operation at LNG regasification terminals through a corrected storage tank model. <i>Applied Thermal Engineering</i> , <b>2019</b> , 149, 344-353	5.8	15
252	LNG cold energy utilization: Prospects and challenges. <i>Energy</i> , <b>2019</b> , 170, 557-568	7.9	127
251	Optimization of helium extraction processes integrated with nitrogen removal units: A comparative study. <i>Computers and Chemical Engineering</i> , <b>2019</b> , 121, 354-366	4	16
250	Heating Value Reduction of LNG (Liquefied Natural Gas) by Recovering Heavy Hydrocarbons: Technoeconomic Analyses Using Simulation-Based Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 5924-5932	3.9	17
249	Retrofit Design of Hydrogen Network in Refineries: Mathematical Model and Global Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 4996-5023	3.9	14
248	A CFD simulation study of boiling mechanism and BOG generation in a full-scale LNG storage tank. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 115, 112-120	4	40
247	A novel conceptual design of hydrate based desalination (HyDesal) process by utilizing LNG cold energy. <i>Applied Energy</i> , <b>2018</b> , 222, 13-24	10.7	85
246	Framework for work-heat exchange network synthesis (WHENS). <i>AIChE Journal</i> , <b>2018</b> , 64, 2472-2485	3.6	24
245	Optimal cryogenic processes for nitrogen rejection from natural gas. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 112, 101-111	4	13
244	Simulation and optimization of a combined cycle gas turbine power plant for part-load operation. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 131, 29-40	5.5	27
243	Review on the design and optimization of natural gas liquefaction processes for onshore and offshore applications. <i>Chemical Engineering Research and Design</i> , <b>2018</b> , 132, 89-114	5.5	80
242	Evaluating smart sampling for constructing multidimensional surrogate models. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 108, 276-288	4	10

241	Locating exchangers in an EIP-wide heat integration network. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 108, 57-73	4	12
240	Economic Feasibility of Power Generation by Recovering Cold Energy during LNG (Liquefied Natural Gas) Regasification. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10687-10695	8.3	24
239	Integrated production planning and inventory management in a multinational pharmaceutical supply chain. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 41, 551-567	0.6	4
238	New operating strategy for a combined cycle gas turbine power plant. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 1675-1684	10.6	39
237	Genome-Scale In Silico Analysis for Enhanced Production of Succinic Acid in <i>Zymomonas mobilis</i> . <i>Processes</i> , <b>2018</b> , 6, 30	2.9	6
236	An ontology framework towards decentralized information management for eco-industrial parks. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 118, 49-63	4	30
235	Optimal Design of Boil-Off Gas Liquefaction in LNG Regasification Terminals. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2407-2412	0.6	3
234	Modeling Multistream Heat Exchangers (MHEXs) Using Operational Data. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2395-2400	0.6	
233	An Ontology Based Cyber-infrastructure for the Development of Smart Eco Industrial Parks. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2047-2052	0.6	0
232	Optimal design of boil-off gas reliquefaction process in LNG regasification terminals. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 117, 171-190	4	12
231	Adjusting the Heating Value of LNG using a Superstructure for Hydrocarbon Recovery. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 1105-1110	0.6	2
230	Optimal Drilling Planning by Considering the Subsurface Dynamics Combining the Flexibilities of Modeling and a Reservoir Simulator. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 16367-16378	3.9	4
229	Exploiting meta-modeling approach to investigate the effect of oil characteristics on the optimal operating conditions and biodiesel properties. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 43, 157-162	0.6	
228	Dynamic Simulation of a LNG Regasification Terminal and Management of Boil-off Gas. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 685-690	0.6	5
227	CFD simulation of a full scale LNG storage tank. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 883-888	0.6	
226	Exploiting the Synergy between Work and Heat for Holistic Energy Integration. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 403-408	0.6	2
225	Simulation and optimization of a combined cycle gas turbine power plant under part-load operation. <i>Computer Aided Chemical Engineering</i> , <b>2018</b> , 44, 2401-2406	0.6	1
224	LEAPS2: Learning based Evolutionary Assistive Paradigm for Surrogate Selection. <i>Computers and Chemical Engineering</i> , <b>2018</b> , 119, 352-370	4	25

223	A Review of Clathrate Hydrate Based Desalination To Strengthen Energy-Water Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 8093-8107	8.3	163
222	Simulating combined cycle gas turbine power plants in Aspen HYSYS. <i>Energy Conversion and Management</i> , <b>2018</b> , 171, 1213-1225	10.6	30
221	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> , <b>2017</b> , 99, 40-50	4	32
220	Towards an ontological infrastructure for chemical process simulation and optimization in the context of eco-industrial parks. <i>Applied Energy</i> , <b>2017</b> , 204, 1284-1298	10.7	24
219	Design of computer experiments: A review. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 106, 71-95	4	132
218	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> , <b>2017</b> , 45, 165-188	4.6	71
217	A superstructure-based model for multistream heat exchanger design within flow sheet optimization. <i>AIChE Journal</i> , <b>2017</b> , 63, 3764-3777	3.6	18
216	Assessing the potential of CO2 utilization with an integrated framework for producing power and chemicals. <i>Journal of CO2 Utilization</i> , <b>2017</b> , 19, 49-57	7.6	31
215	Ethylene from natural gas via oxidative coupling of methane and cold energy of LNG. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 40, 1855-1860	0.6	2
214	Locating Heat Exchangers in an EIP-wide Heat Integration Network. <i>Computer Aided Chemical Engineering</i> , <b>2017</b> , 793-798	0.6	
213	Process Synthesis and Optimization of Propylene/Propane Separation Using Vapor Recompression and Self-Heat Recuperation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 14557-14564	3.9	43
212	Smart Sampling Algorithm for Surrogate Model Development. <i>Computers and Chemical Engineering</i> , <b>2017</b> , 96, 103-114	4	41
211	J-Park Simulator, an intelligent system for information management of eco-industrial parks. <i>Energy Procedia</i> , <b>2017</b> , 142, 2953-2958	2.3	7
210	Process and Heat Integrated Design of a Novel NGL Recovery Scheme. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 1845-1850	0.6	
209	Preface to the ICCDU-2015 Special Issue. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7839-7841	3.9	3
208	Process systems engineering perspective on the planning and development of oil fields. <i>AIChE Journal</i> , <b>2016</b> , 62, 2586-2604	3.6	28
207	Evolution and optimization of the dual mixed refrigerant process of natural gas liquefaction. <i>Applied Thermal Engineering</i> , <b>2016</b> , 96, 320-329	5.8	75
206	Integrated Oil-Field Management: From Well Placement and Planning to Production Scheduling. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 978-994	3.9	23

205	Smart Adaptive Sampling for Surrogate Modelling. <i>Computer Aided Chemical Engineering</i> , <b>2016</b> , 38, 631-636	3
204	Minimizing Power Consumption Related to BOG Reliquefaction in an LNG Regasification Terminal. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7431-7445	3.9 21
203	Metabolic processes of <i>Methanococcus maripaludis</i> and potential applications. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 107	6.4 28
202	Energy penalty estimates for CO <sub>2</sub> capture: Comparison between fuel types and capture-combustion modes. <i>Energy</i> , <b>2016</b> , 103, 709-714	7.9 50
201	Parameterisation of a biodiesel plant process flow sheet model. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 95, 108-122	4 17
200	Shared and practical approach to conserve utilities in eco-industrial parks. <i>Computers and Chemical Engineering</i> , <b>2016</b> , 93, 221-233	4 22
199	Work-heat exchanger network synthesis (WHENS). <i>Energy</i> , <b>2016</b> , 113, 1006-1017	7.9 35
198	Long-term optimal energy mix planning towards high energy security and low GHG emission. <i>Applied Energy</i> , <b>2015</b> , 154, 959-969	10.7 68
197	Modelling Multi Stream Heat Exchangers Using Operational Data. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 2369-2374	0.6
196	Energy and cost estimates for capturing CO <sub>2</sub> from a dry flue gas using pressure/vacuum swing adsorption. <i>Chemical Engineering Research and Design</i> , <b>2015</b> , 102, 354-367	5.5 50
195	Sequential coordinate random search for optimal operation of LNG (liquefied natural gas) plant. <i>Energy</i> , <b>2015</b> , 89, 757-767	7.9 27
194	A Drilling Scheduling Toolbox for Oil and Gas Reservoirs. <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 2453-2458	0.6 4
193	Modeling and Experimental Validation of Electrochemical Reduction of CO <sub>2</sub> to CO in a Microfluidic Cell. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, F23-F32	3.9 49
192	CO <sub>2</sub> capture in cation-exchanged metal-organic frameworks: Holistic modeling from molecular simulation to process optimization. <i>Chemical Engineering Science</i> , <b>2015</b> , 124, 70-78	4.4 35
191	Flux measurements and maintenance energy for carbon dioxide utilization by <i>Methanococcus maripaludis</i> . <i>Microbial Cell Factories</i> , <b>2015</b> , 14, 146	6.4 12
190	Experimental Validation Of in silico Flux Predictions from A Genome-Scale Model (iMM518) For Carbon Dioxide Utilization by <i>M. maripaludis</i> . <i>Computer Aided Chemical Engineering</i> , <b>2015</b> , 37, 2153-2158 <sup>0.6</sup>	0.6
189	CO <sub>2</sub> capture from dry flue gas by vacuum swing adsorption: A pilot plant study. <i>AIChE Journal</i> , <b>2014</b> , 60, 1830-1842	3.6 153
188	Parametric optimization with uncertainty on the left hand side of linear programs. <i>Computers and Chemical Engineering</i> , <b>2014</b> , 60, 31-40	4 16

187	Efficient algorithm for simultaneous synthesis of heat exchanger networks. <i>Chemical Engineering Science</i> , <b>2014</b> , 105, 53-68	4.4	41
186	Comparing SiCHA and 4A Zeolite for Propylene/Propane Separation using a Surrogate-Based Simulation/Optimization Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 16973-16983	3.9	19
185	Improved Synthesis of Hydrogen Networks for Refineries. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 16948-16963	3.9	19
184	Design of biomass and natural gas based IGFC using multi-objective optimization. <i>Energy</i> , <b>2014</b> , 73, 635-652	4.5	13
183	Well Placement, Infrastructure Design, Facility Allocation, and Production Planning in Multireservoir Oil Fields with Surface Facility Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 11033-11049	3.9	21
182	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> , <b>2014</b> , 75, 349-359	7.9	57
181	A genome-scale metabolic model of <i>Methanococcus maripaludis</i> S2 for CO <sub>2</sub> capture and conversion to methane. <i>Molecular BioSystems</i> , <b>2014</b> , 10, 1043-54		28
180	Genome-scale metabolic network reconstruction and in silico flux analysis of the thermophilic bacterium <i>Thermus thermophilus</i> HB27. <i>Microbial Cell Factories</i> , <b>2014</b> , 13, 61	6.4	14
179	Optimization of One- and Two-Staged Kinetically Controlled CO <sub>2</sub> Capture Processes from Postcombustion Flue Gas on a Carbon Molecular Sieve. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 9186-9198	3.9	11
178	Robust Supply-Chain Operations through Rescheduling <b>2014</b> , 89-120		
177	Chemical Supply Chain Redesign <b>2014</b> , 245-299		1
176	Modeling and Simulating Electrochemical Reduction of CO <sub>2</sub> in a Microfluidic Cell. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 639-644	0.6	2
175	Perspectives on the Design and Planning of Oil Field Infrastructure. <i>Computer Aided Chemical Engineering</i> , <b>2014</b> , 163-172	0.6	6
174	In silico modeling and evaluation of <i>Gordonia alkanivorans</i> for biodesulfurization. <i>Molecular BioSystems</i> , <b>2013</b> , 9, 2530-40		36
173	Simultaneous synthesis approaches for cost-effective heat exchanger networks. <i>Chemical Engineering Science</i> , <b>2013</b> , 98, 231-245	4.4	53
172	Propylene/Propane Separation Using SiCHA. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 3877-3892	3.9	30
171	Optimal producer well placement and production planning in an oil reservoir. <i>Computers and Chemical Engineering</i> , <b>2013</b> , 55, 109-125	4	43
170	Cycle synthesis and optimization of a VSA process for postcombustion CO <sub>2</sub> capture. <i>AIChE Journal</i> , <b>2013</b> , 59, 4735-4748	3.6	100

169	Multiobjective Optimization of a Four-Step Adsorption Process for Postcombustion CO <sub>2</sub> Capture Via Finite Volume Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 4249-4265	3.9	136
168	Genome-scale metabolic network reconstruction and in silico analysis of <i>Methanococcus maripaludis</i> S2. <i>Computer Aided Chemical Engineering</i> , <b>2013</b> , 181-186	0.6	1
167	Evaluation of utilization alternatives for stranded natural gas. <i>Energy</i> , <b>2012</b> , 40, 317-328	7.9	79
166	Optimization of multi-refinery hydrogen networks. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 1331-1335	10.5	5
165	Roles of sulfite oxidoreductase and sulfite reductase in improving desulfurization by <i>Rhodococcus erythropolis</i> . <i>Molecular BioSystems</i> , <b>2012</b> , 8, 2724-32		36
164	Synthesis Framework of Biorefinery Systems for Lignocellulosic Biorenewables. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 245-249	0.6	
163	Discrete Equilibrium Data from Dynamic Column Breakthrough Experiments. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 14834-14844	3.9	6
162	Microgrid Scheduling for Reliable, Cost-Effective, and Environmentally Friendly Energy Management. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 120614123154002	3.9	2
161	Nonisothermal Pore Diffusion Model for a Kinetically Controlled Pressure Swing Adsorption Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 10659-10670	3.9	20
160	Integrated supply chain planning for multinational pharmaceutical enterprises. <i>Computers and Chemical Engineering</i> , <b>2012</b> , 42, 168-177	4	78
159	A Comparison Study of Adjoint-Based Gradient Search Technique and Mathematical Programming for Optimal Well-Placement. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 665-669	0.6	
158	Simultaneous Optimal Placement of Injector and Producer Wells Using Mathematical Programming. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 1482-1486	0.6	1
157	Minimize Flaring through Integration with Fuel Gas Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 12630-12641	3.9	20
156	Contract selection under uncertainty. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 1487-1491	0.6	2
155	A Novel Multi-Grid Formulation for Scheduling Semi-Continuous Plants. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 1075-1079	0.6	3
154	In Silico Analysis to Explore the Effect of Various Carbon Sources on Ethanol Production in <i>Zymomonas mobilis</i> . <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 1382-1386	0.6	1
153	Heat Exchanger Network Synthesis Using a Hyperstructure of Stagewise Stream Superstructures. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 1552-1556	0.6	2
152	Optimizing the PSA process of propylene/propane using Neuro-Fuzzy modeling. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 31, 1336-1340	0.6	4

151	PlanPerfect: An integrated production planning and decision support tool for pharmaceutical plants. <i>Computer Aided Chemical Engineering</i> , <b>2012</b> , 30, 372-376	0.6	
150	Heat exchanger network synthesis using a stagewise superstructure with non-isothermal mixing. <i>Chemical Engineering Science</i> , <b>2012</b> , 73, 30-43	4.4	74
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