

Gade P. Rangaiah

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.

276
papers

4,448
citations

37
h-index

53
g-index

291
ext. papers

5,143
ext. citations

3.9
avg, IF

6.16
L-index

#	Paper	IF	Citations
276	Optimizing Algal Biodiesel Production from a Novel Reactive Distillation based Unit: Reducing CO ₂ Emission and Cost. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 108948	3.7	1
275	Dynamic controllability of temperature difference control for the operation of double liquid-only side-stream distillation. <i>Computers and Chemical Engineering</i> , 2022 , 107870	4	0
274	Plantwide control and process safety of formic acid process having a reactive dividing-wall column and three material recycles. <i>Computers and Chemical Engineering</i> , 2021 , 147, 107248	4	1
273	A novel vapor recompressed batch extractive distillation: Design and retrofitting. <i>Separation and Purification Technology</i> , 2021 , 260, 118225	8.3	4
272	Preference Ranking on the Basis of Ideal-Average Distance Method for Multi-Criteria Decision-Making. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11216-11230	3.9	1
271	Nano-catalytic heterogeneous reactive distillation for algal biodiesel production: Multi-objective optimization and heat integration. <i>Energy Conversion and Management</i> , 2021 , 241, 114298	10.6	3
270	Process Optimization of Heat-Integrated Extractive Dividing-Wall Columns for Energy-Saving Separation of CO ₂ and Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11000-11011	3.9	12
269	Evolutionary Algorithm Based Multiobjective Optimization of Vapor Recompressed Batch Extractive Distillation: Assessing Economic Potential and Environmental Impact. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5032-5046	3.9	9
268	Design and control of vapor recompression assisted extractive distillation for separating n-hexane and ethyl acetate. <i>Separation and Purification Technology</i> , 2020 , 240, 116655	8.3	29
267	Multi-Objective Optimization Applications in Chemical Process Engineering: Tutorial and Review. <i>Processes</i> , 2020 , 8, 508	2.9	28
266	Mixed-Integer dynamic optimization of conventional and vapor recompressed batch distillation for economic and environmental objectives. <i>Chemical Engineering Research and Design</i> , 2020 , 154, 70-85	5.5	10
265	Integrated Biorefinery of Empty Fruit Bunch from Palm Oil Industries to Produce Valuable Biochemicals. <i>Processes</i> , 2020 , 8, 868	2.9	6
264	Analysis of Weighting and Selection Methods for Pareto-Optimal Solutions of Multiobjective Optimization in Chemical Engineering Applications. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14850-14867	3.9	12
263	Process Development, Design and Analysis of Microalgal Biodiesel Production Aided by Microwave and Ultrasonication 2020 , 259-284		3
262	Intensified Purification Alternative for Methyl Ethyl Ketone Production 2020 , 311-339		
261	Multi-objective optimization of vapor recompressed distillation column in batch processing: Improving energy and cost savings. <i>Applied Thermal Engineering</i> , 2019 , 150, 1273-1296	5.8	12
260	Closed-loop identification and model predictive control of extractive dividing-wall column. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 142, 107552	3.7	9

259	Design and optimization of Kemira-Leonard process for formic acid production. <i>Chemical Engineering Science: X</i> , 2019 , 2, 100021	1.1	4
258	Vapor recompressed batch distillation: Optimizing reflux ratio at variable mode. <i>Computers and Chemical Engineering</i> , 2019 , 124, 184-196	4	10
257	Heat-pump assisted distillation versus double-effect distillation for bioethanol recovery followed by pressure swing adsorption for bioethanol dehydration. <i>Separation and Purification Technology</i> , 2019 , 210, 574-586	8.3	20
256	Process Development, Assessment, and Control of Reactive Dividing-Wall Column with Vapor Recompression for Producing n-Propyl Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 276-295	3.9	24
255	Optimizing reboiler duty and reflux ratio profiles of vapor recompressed batch distillation. <i>Separation and Purification Technology</i> , 2019 , 213, 553-570	8.3	18
254	Development and optimization of a novel process of double-effect distillation with vapor recompression for bioethanol recovery and vapor permeation for bioethanol dehydration. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1041-1056	3.5	9
253	Multi-objective optimisation of a double contact double absorption sulphuric acid plant for cleaner operation. <i>Journal of Cleaner Production</i> , 2018 , 181, 652-662	10.3	8
252	Surrogate modelling of net radiation flux from pool fires in a hydrocarbon storage facility. <i>Chemical Engineering Research and Design</i> , 2018 , 114, 296-309	5.5	14
251	Product design: Impact of government policy and consumer preference on company profit and corporate social responsibility. <i>Computers and Chemical Engineering</i> , 2018 , 118, 118-131	4	13
250	Design, Optimization, and Retrofit of the Formic Acid Process I: Base Case Design and Dividing-Wall Column Retrofit. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 9554-9570	3.9	13
249	Proportional-Integral Control and Model Predictive Control of Extractive Dividing-Wall Column Based on Temperature Differences. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10572-10590	3.9	33
248	Plantwide Control of the Formic Acid Production Process Using an Integrated Framework of Simulation and Heuristics. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13478-13489	3.9	6
247	Design, Optimization, and Retrofit of the Formic Acid Process II: Reactive Distillation and Reactive Dividing-Wall Column Retrofits. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14665-14679	3.9	10
246	Application and Analysis of Methods for Selecting an Optimal Solution from the Pareto-Optimal Front obtained by Multiobjective Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 560-574	3.9	96
245	Review of Technological Advances in Bioethanol Recovery and Dehydration. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 5147-5163	3.9	44
244	Surrogate modelling for enhancing consequence analysis based on computational fluid dynamics. <i>Journal of Loss Prevention in the Process Industries</i> , 2017 , 48, 173-185	3.5	9
243	Differential Evolution: Method, Developments and Chemical Engineering Applications. <i>Advances in Process Systems Engineering</i> , 2017 , 35-69		
242	Differential Evolution with Tabu List for Global Optimization: Evaluation of Two Versions on Benchmark and Phase Stability Problems. <i>Advances in Process Systems Engineering</i> , 2017 , 91-127		

241	Integrated Multi-Objective Differential Evolution and its Application to Amine Absorption Process for Natural Gas Sweetening. <i>Advances in Process Systems Engineering</i> , 2017 , 128-155		3
240	Heat Exchanger Network Retrofitting Using Multi-Objective Differential Evolution. <i>Advances in Process Systems Engineering</i> , 2017 , 159-184		
239	Phase Stability and Equilibrium Calculations in Reactive Systems using Differential Evolution and Tabu Search. <i>Advances in Process Systems Engineering</i> , 2017 , 185-299		
238	Design and optimization of isopropanol process based on two alternatives for reactive distillation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 118, 108-116	3-7	10
237	Multi-Objective Optimization Applications in Chemical Engineering. <i>Advances in Process Systems Engineering</i> , 2017 , 29-62		2
236	Multi-Objective Optimization of Multi-Stage Gas-Phase Refrigeration Systems. <i>Advances in Process Systems Engineering</i> , 2017 , 247-290		
235	Optimal Design of Chemical Processes for Multiple Economic and Environmental Objectives. <i>Advances in Process Systems Engineering</i> , 2017 , 315-353		
234	Optimization of a Multi-Product Microbial Cell Factory for Multiple Objectives [A Paradigm for Metabolic Pathway Recipe. <i>Advances in Process Systems Engineering</i> , 2017 , 417-445		
233	Optimization of Heat Exchanger Network Retrofitting: Comparison of Penalty Function and Feasibility Approach for Handling Constraints. <i>Advances in Process Systems Engineering</i> , 2017 , 501-532		0
232	Multi-Objective Optimization Programs and their Application to Amine Absorption Process Design for Natural Gas Sweetening. <i>Advances in Process Systems Engineering</i> , 2017 , 533-560		2
231	Evaluation of two termination criteria in evolutionary algorithms for multi-objective optimization of complex chemical processes. <i>Chemical Engineering Research and Design</i> , 2017 , 124, 58-65	5-5	8
230	Design and analysis of an ethyl benzene production process using conventional distillation columns and dividing-wall column for multiple objectives. <i>Chemical Engineering Research and Design</i> , 2017 , 118, 142-157	5-5	12
229	Retrofitting via Intensification: Application to Formic Acid Process. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 1093-1098	0.6	1
228	Multi-Objective Optimization. <i>Advances in Process Systems Engineering</i> , 2017 ,		4
227	Design of shell-and-tube heat exchangers for multiple objectives using elitist non-dominated sorting genetic algorithm with termination criteria. <i>Applied Thermal Engineering</i> , 2016 , 93, 888-899	5-8	55
226	Retrofitting an isopropanol process based on reactive distillation and propylene-propane separation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 108, 164-173	3-7	5
225	Review of Optimization Techniques for Retrofitting Batch Plants 2016 , 223-247		
224	Designing, Retrofitting, and Revamping Water Networks in Petroleum Refineries Using Multiobjective Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 226-236	3-9	12

223	Process Retrofitting via Intensification: A Heuristic Methodology and Its Application to Isopropyl Alcohol Process. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 3614-3629	3.9	16
222	Operator training simulator for biodiesel synthesis from waste cooking oil. <i>Chemical Engineering Research and Design</i> , 2016 , 99, 55-68	5.5	18
221	Chapter 19 Evaluation Of Simulated Annealing, Differential Evolution, And Particle Swarm Optimization For Solving Pooling Problems 2016 , 513-544		
220	Performance analysis of stopping criteria of population-based metaheuristics for global optimization in phase equilibrium calculations and modeling. <i>Fluid Phase Equilibria</i> , 2016 , 427, 104-125	2.5	9
219	Design, Retrofit and Revamp of Industrial Water Networks using Multi-objective Optimization Approach 2016 , 347-373		1
218	Project Engineering and Management for Process Retrofitting and Revamping 2016 , 19-56		1
217	Mathematical Modeling, Simulation and Optimization for Process Design 2016 , 97-127		3
216	Heat Exchanger Network Retrofitting: Alternative Solutions via Multi-objective Optimization for Industrial Implementation 2016 , 193-222		2
215	Techno-economic Evaluation of Membrane Separation for Retrofitting Olefin/Paraffin Fractionators in an Ethylene Plant 2016 , 285-316		1
214	Retrofit of Vacuum Systems in Process Industries 2016 , 317-346		
213	Optimization and Economic Evaluation of Bioethanol Recovery and Purification Processes involving Extractive Distillation and Pressure Swing Adsorption. <i>Computer Aided Chemical Engineering</i> , 2015 , 413-418	0.6	3
212	Effect of cool vs. warm dialysate on toxin removal: rationale and study design. <i>BMC Nephrology</i> , 2015 , 16, 25	2.7	5
211	Development and Multiobjective Optimization of Improved Cumene Production Processes. <i>Materials and Manufacturing Processes</i> , 2015 , 30, 444-457	4.1	17
210	Application of design of experiments in hemodialysis: Optimal sampling protocol for β_2 -microglobulin kinetic model. <i>Chemical Engineering Science</i> , 2015 , 131, 84-90	4.4	2
209	Multi-objective optimization for the design and operation of energy efficient chemical processes and power generation. <i>Current Opinion in Chemical Engineering</i> , 2015 , 10, 49-62	5.4	50
208	Retrofitting of heat exchanger networks involving streams with variable heat capacity: Application of single and multi-objective optimization. <i>Applied Thermal Engineering</i> , 2015 , 75, 677-684	5.8	23
207	A computational study of the effect of lamp arrangements on the performance of ultraviolet water disinfection reactors. <i>Chemical Engineering Science</i> , 2015 , 122, 299-306	4.4	30
206	Multi-loop Control System Design for Biodiesel Process using Waste Cooking Oil. <i>Journal of Physics: Conference Series</i> , 2015 , 622, 012011	0.3	

205	Application of Artificial Neural Network and Genetic Programming in Modeling and Optimization of Ultraviolet Water Disinfection Reactors. <i>Chemical Engineering Communications</i> , 2015 , 202, 1415-1424	2.2	12
204	Bioethanol recovery and purification using extractive dividing-wall column and pressure swing adsorption: An economic comparison after heat integration and optimization. <i>Separation and Purification Technology</i> , 2015 , 149, 413-427	8.3	48
203	Improved heat exchanger network retrofitting using exchanger reassignment strategies and multi-objective optimization. <i>Energy</i> , 2014 , 67, 584-594	7.9	28
202	Optimization of Heat Exchanger Networks for the Utilization of Low-Temperature Process Heat. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17989-18004	3.9	5
201	Energy optimization of crude oil distillation using different designs of pre-flash drums. <i>Applied Thermal Engineering</i> , 2014 , 73, 1204-1210	5.8	10
200	Plantwide Control of Biodiesel Production from Waste Cooking Oil Using Integrated Framework of Simulation and Heuristics. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14408-14418	3.9	18
199	Retrofitting amine absorption process for natural gas sweetening via hybridization with membrane separation. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 29, 221-230	4.2	15
198	Photocatalytic Degradation of Methylene Blue by Titanium Dioxide: Experimental and Modeling Study. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14641-14649	3.9	117
197	Multi-objective optimization of two alkali catalyzed processes for biodiesel from waste cooking oil. <i>Energy Conversion and Management</i> , 2014 , 85, 361-372	10.6	56
196	Improving energy efficiency of dividing-wall columns using heat pumps, Organic Rankine Cycle and Kalina Cycle. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014 , 76, 45-59	3.7	65
195	Review of Heat Exchanger Network Retrofitting Methodologies and Their Applications. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11205-11220	3.9	62
194	Multi-objective Optimization of Heat Integrated Water Networks in Petroleum Refineries. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1531-1536	0.6	9
193	Operator training simulators in the chemical industry: review, issues, and future directions. <i>Reviews in Chemical Engineering</i> , 2014 , 30,	5	36
192	Improving energy efficiency of distillation using heat pump assisted columns. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 905-928	1.3	16
191	Personalized mechanistic models for exercise, meal and insulin interventions in children and adolescents with type 1 diabetes. <i>Journal of Theoretical Biology</i> , 2014 , 357, 62-73	2.3	7
190	Jumping Gene Adaptations of NSGA-II with Altruism Approach: Performance Comparison and Application to WilliamsOtto Process 2014 , 395-421		2
189	Hybrid Approach for Multiobjective Optimization and Its Application to Process Engineering Problems 2014 , 423-444		
188	Knowledge based decision making method for the selection of mixed refrigerant systems for energy efficient LNG processes. <i>Applied Energy</i> , 2013 , 111, 1018-1031	10.7	96

187	Plant-Wide Control System Design of an Alkylation Process Using Integrated Framework of Simulation, Heuristics, and Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2887-2906	7	2.9
186	Optimization of Pooling Problems for Two Objectives Using the EConstraint Method 2013 , 17-34	1	
185	Performance Comparison of Jumping Gene Adaptations of the Elitist Non-dominated Sorting Genetic Algorithm 2013 , 103-127	1	
184	Improved Constraint Handling Technique for Multi-Objective Optimization with Application to Two Fermentation Processes 2013 , 129-156	1	
183	Robust Multi-Objective Genetic Algorithm (RMOGA) with Online Approximation under Interval Uncertainty 2013 , 157-181		
182	Modeling and Multi-Objective Optimization of a Chromatographic System 2013 , 369-398	1	
181	Estimation of Crystal Size Distribution: Image Thresholding Based on Multi-Objective Optimization 2013 , 399-422		
180	Multi-Objective Optimization of a Hybrid Steam Stripper-Membrane Process for Continuous Bioethanol Purification 2013 , 423-447	3	
179	Process Design for Economic, Environmental and Safety Objectives with an Application to the Cumene Process 2013 , 449-477	5	
178	Multi-Objective Optimization Applications in Chemical Engineering 2013 , 35-102	17	
177	An improved multi-objective differential evolution with a termination criterion for optimizing chemical processes. <i>Computers and Chemical Engineering</i> , 2013 , 56, 155-173	4	71
176	Multiobjective Optimization of Cold-End Separation Process in an Ethylene Plant. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 17229-17240	3.9	16
175	Personalized Hybrid Models for Exercise, Meal, and Insulin Interventions in Type 1 Diabetic Children and Adolescents. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 13020-13033	3.9	9
174	A novel graphical approach to target CO ₂ emissions for energy resource planning and utility system optimization. <i>Applied Energy</i> , 2013 , 104, 783-790	10.7	20
173	Assessment of capabilities and limitations of stochastic global optimization methods for modeling mean activity coefficients of ionic liquids. <i>Fluid Phase Equilibria</i> , 2013 , 340, 15-26	2.5	13
172	One-step approach for heat exchanger network retrofitting using integrated differential evolution. <i>Computers and Chemical Engineering</i> , 2013 , 50, 92-104	4	36
171	Chance Constrained Programming to Handle Uncertainty in Nonlinear Process Models 2013 , 183-215		
170	Performance analysis of ultraviolet water disinfection reactors using computational fluid dynamics simulation. <i>Chemical Engineering Journal</i> , 2013 , 221, 398-406	14.7	38

169	Modeling and Optimization of Reactive HiGee Stripper-Membrane Process for Methyl Lactate Hydrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7795-7802	3.9	7
168	New PI Controller Tuning Methods Using Multi-Objective Optimization 2013 , 479-501		0
167	Multiobjective Framework for Model-based Design of Experiments to Improve Parameter Precision and Minimize Parameter Correlation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 8289-8304	3.9	14
166	Multi-objective optimization of a bio-diesel production process. <i>Fuel</i> , 2013 , 103, 269-277	7.1	46
165	HiGee Stripper-Membrane System for Decentralized Bioethanol Recovery and Purification. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4572-4585	3.9	12
164	Holistic Approach for Retrofit Design of Cooling Water Networks. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 13059-13078	3.9	19
163	Modeling and Analysis of Hybrid Reactive Stripper-Membrane Process for Lactic Acid Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 2907-2916	3.9	12
162	Effect of Intra-Patient Variability on Personalized Parameters of Glucose-Insulin Dynamic Models for Exercise, Meal, and Insulin Interventions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 338-343		1
161	Phase Equilibrium Data Reconciliation Using Multi-Objective Differential Evolution with Tabu List 2013 , 267-292		1
160	CO2 Emissions Targeting for Petroleum Refinery Optimization 2013 , 293-333		
159	Ecodesign of Chemical Processes with Multi-Objective Genetic Algorithms 2013 , 335-367		0
158	Fuzzy Multi-Objective Optimization for Metabolic Reaction Networks by Mixed-Integer Hybrid Differential Evolution 2013 , 217-245		
157	Parameter Estimation in Phase Equilibria Calculations Using Multi-Objective Evolutionary Algorithms 2013 , 247-265		1
156	Evaluation of Covariance Matrix Adaptation Evolution Strategy, Shuffled Complex Evolution and Firefly Algorithms for phase stability, phase equilibrium and chemical equilibrium problems. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 2051-2071	5.5	46
155	Modeling and Optimization of a Fermentation Process Integrated with Cell Recycling and Pervaporation for Multiple Objectives. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5542-5551	3.9	23
154	Optimal Design of a Rotating Packed Bed for VOC Stripping from Contaminated Groundwater. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 835-847	3.9	35
153	Modeling and analysis of solid catalyzed reactive HiGee stripping. <i>Chemical Engineering Science</i> , 2012 , 80, 242-252	4.4	22
152	Personalized blood glucose models for exercise, meal and insulin interventions in type 1 diabetic children. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 1250-3	0.9	5

151	Modeling and Analysis of Intensified Processes for Economic Recovery of High-Grade Lactic Acid. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 647-651	0.6	1
150	Comparison of toxin removal outcomes in online hemodiafiltration and intra-dialytic exercise in high-flux hemodialysis: a prospective randomized open-label clinical study protocol. <i>BMC Nephrology</i> , 2012 , 13, 156	2.7	10
149	Multi-objective Optimization of a Membrane Distillation System for Desalination of Sea Water. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 117-121	0.6	2
148	Modeling and Analysis of Novel Reactive HiGee Distillation. <i>Computer Aided Chemical Engineering</i> , 2012 , 1201-1205	0.6	7
147	Multiobjective Optimization in Distillation with Reactor-Side for Hydrodesulfurization Process of Diesel. <i>Computer Aided Chemical Engineering</i> , 2012 , 682-686	0.6	3
146	Multi-objective optimization using MS Excel with an application to design of a falling-film evaporator system. <i>Food and Bioproducts Processing</i> , 2012 , 90, 123-134	4.9	59
145	An efficient constraint handling method with integrated differential evolution for numerical and engineering optimization. <i>Computers and Chemical Engineering</i> , 2012 , 37, 74-88	4	30
144	A novel optimal experiment design technique based on multi-objective optimization and its application for toxin kinetics model of hemodialysis patients. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 1362-1366	0.6	2
143	A Novel Multi-Objective Optimization based Experimental Design and its Application for Physiological Model of Type 1 Diabetes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 638-643		4
142	Partial Least Squares (PLS) Model for Prediction of Definitive and Intermediate Treatment Outcomes in Diabetes Ketoacidosis (DKA) Patients. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 810-815		3
141	Integrated Framework of Simulation and Heuristics for Plantwide Control System Design 2012 , 203-227		
140	Economic Plantwide Control 2012 , 229-251		8
139	Performance Assessment of Plantwide Control Systems 2012 , 253-272		
138	Design and Control of a Cooled Ammonia Reactor 2012 , 273-292		3
137	Design and Plantwide Control of a Biodiesel Plant 2012 , 293-317		5
136	Plantwide Control of a Reactive Distillation Process 2012 , 319-338		1
135	Control System Design of a Crystallizer Train for Para-Xylene Recovery 2012 , 339-360		
134	Modeling and Control of Industrial Off-gas Systems 2012 , 361-384		0

133	Plantwide Control via a Network of Autonomous Controllers 2012 , 385-416		
132	Coordinated, Distributed Plantwide Control 2012 , 417-440		
131	Industrial Perspective on Plantwide Control 2012 , 11-17		
130	Determination of Plantwide Control Loop Configuration and Eco-efficiency 2012 , 441-457		5
129	Control Degrees of Freedom Analysis for Plantwide Control of Industrial Processes 2012 , 19-42		
128	Selection of Controlled Variables using Self-optimizing Control Method 2012 , 43-71		2
127	Input-Output Pairing Selection for Design of Decentralized Controller 2012 , 73-96		2
126	Heuristics for Plantwide Control 2012 , 97-119		1
125	Throughput Manipulator Selection for Economic Plantwide Control 2012 , 121-145		
124	Influence of Process Variability Propagation in Plantwide Control 2012 , 147-177		
123	A Review of Plantwide Control Methodologies and Applications 2012 , 179-201		3
122	Multi-objective Optimization of a Fermentation Process Integrated with Cell Recycling and Inter-stage Extraction. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 860-864	0.6	3
121	Review and Analysis of Blood Glucose (BG) Models for Type 1 Diabetic Patients. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12041-12066	3.9	47
120	Integrated Framework Incorporating Optimization for Plant-Wide Control of Industrial Processes. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8122-8137	3.9	13
119	Evaluation of integrated differential evolution and unified bare-bones particle swarm optimization for phase equilibrium and stability problems. <i>Fluid Phase Equilibria</i> , 2011 , 310, 129-141	2.5	22
118	Investigating the trade-off between operating revenue and CO ₂ emissions from crude oil distillation using a blend of two crudes. <i>Fuel</i> , 2011 , 90, 3577-3585	7.1	16
117	A hybrid global optimization algorithm and its application to parameter estimation problems. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 379-390	1.3	9
116	Selected papers from PSE ASIA 2010. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 317-319	1.3	

115	A regional blood flow model for β_2 -microglobulin kinetics and for simulating intra-dialytic exercise effect. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2879-90	4.7	19
114	Novel bare-bones particle swarm optimization and its performance for modeling vapor-liquid equilibrium data. <i>Fluid Phase Equilibria</i> , 2011 , 301, 33-45	2.5	41
113	Constrained and unconstrained Gibbs free energy minimization in reactive systems using genetic algorithm and differential evolution with tabu list. <i>Fluid Phase Equilibria</i> , 2011 , 300, 120-134	2.5	27
112	Integrated Differential Evolution for Global Optimization and Its Performance for Modeling Vapor-Liquid Equilibrium Data. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 10047-10061	3.9	17
111	Development of Guidelines for Plantwide Control of Gas-Phase Industrial Processes, from Reactor-Separator-Recycle Results. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 939-952	3.9	5
110	Economic and Environmental Criteria and Trade-Offs for Recovery Processes. <i>Materials and Manufacturing Processes</i> , 2011 , 26, 431-445	4.1	13
109	Design Optimization of an LPG Thermal Cracker for Multiple Objectives. <i>International Journal of Chemical Reactor Engineering</i> , 2011 , 9,	1.2	5
108	Self-adaptive Differential Evolution with Taboo List for Constrained Optimization Problems and Its Application to Pooling Problems. <i>Computer Aided Chemical Engineering</i> , 2011 , 29, 572-576	0.6	3
107	Plantwide Control System Design and Performance Evaluation for Ammonia Synthesis Process. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 12538-12547	3.9	27
106	Criteria for Performance Assessment of Plantwide Control Systems. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9209-9221	3.9	22
105	Identification and predictive control of a multistage evaporator. <i>Control Engineering Practice</i> , 2010 , 18, 1418-1428	3.9	18
104	Modeling and optimization of a multi-product biosynthesis factory for multiple objectives. <i>Metabolic Engineering</i> , 2010 , 12, 251-67	9.7	17
103	Evaluation of stochastic global optimization methods for modeling vapor-liquid equilibrium data. <i>Fluid Phase Equilibria</i> , 2010 , 287, 111-125	2.5	31
102	DIFFERENTIAL EVOLUTION WITH TABU LIST FOR GLOBAL OPTIMIZATION: EVALUATION OF TWO VERSIONS ON BENCHMARK AND PHASE STABILITY PROBLEMS. <i>Advances in Process Systems Engineering</i> , 2010 , 465-504		0
101	Nonlinear model predictive control of a multistage evaporator system using recurrent neural networks 2009 ,		3
100	Plant-Wide Control: Methodologies and Applications. <i>Reviews in Chemical Engineering</i> , 2009 , 25,	5	7
99	Advanced Control Strategies for the Regulation of Hypnosis with Propofol. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 3880-3897	3.9	51
98	Retrofitting conventional column systems to dividing-Wall Columns. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 47-60	5.5	107

97	A comparative study of three advanced controllers for the regulation of hypnosis. <i>Journal of Process Control</i> , 2009 , 19, 1458-1469	3.9	7
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1	Appendix: Potential Problems with Rigorous Simulators and Possible Solutions	459-471	