

David G Glasser

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.

208
papers

3,070
citations

29
h-index

45
g-index

215
ext. papers

3,254
ext. citations

4.4
avg, IF

4.98
L-index

#	Paper	IF	Citations
208	Gasoline pre-blending processes for efficient ethanol recovery: effects of process parameters and process modifications for improved performance. <i>Biofuels</i> , 2021 , 12, 625-632	2	
207	Fischer-Tropsch synthesis: A long term comparative study of the product selectivity and paraffin to olefin ratios over an iron-based catalyst activated by syngas or H ₂ . <i>Applied Catalysis A: General</i> , 2020 , 602, 117700	5.1	3
206	Development trajectory of the attainable region optimization method: Trends and opportunities for applications in the waste-to-energy field. <i>South African Journal of Chemical Engineering</i> , 2020 , 32, 13-26	3.2	
205	Desulphurization of diesel fuels using intermediate Lewis acids loaded on activated charcoal and alumina. <i>Chemical Engineering Communications</i> , 2019 , 206, 572-580	2.2	9
204	Applying thermodynamics to digestion/gasification processes: the Attainable Region approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 25-36	4.1	5
203	Thermodynamic optimization of steady-flow industrial chemical processes. <i>International Journal of Industrial Chemistry</i> , 2018 , 9, 353-361	3.1	1
202	A long term study of the gas phase of low pressure Fischer-Tropsch products when reducing an iron catalyst with three different reducing gases. <i>Applied Catalysis A: General</i> , 2017 , 534, 1-11	5.1	16
201	Variation of the Short-Chain Paraffin and Olefin Formation Rates with Time for a Cobalt Fischer-Tropsch Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 469-478	3.9	10
200	Low-Pressure Fischer-Tropsch Synthesis: In Situ Oxidative Regeneration of Iron Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 4267-4274	3.9	9
199	Lu Plot and Yao Plot: Models To Analyze Product Distribution of Long-Term Gas-Phase Fischer-Tropsch Synthesis Experimental Data on an Iron Catalyst. <i>Energy & Fuels</i> , 2017 , 31, 5682-5690	4.1	4
198	Application of the attainable region method to determine optimal conditions for milling and leaching. <i>Powder Technology</i> , 2017 , 317, 400-407	5.2	6
197	Process flow sheet synthesis: Systems-level design applied to synthetic crude production. <i>AIChE Journal</i> , 2017 , 63, 5413-5424	3.6	4
196	A Study of the Fischer-Tropsch Synthesis in a Batch Reactor: Rate, Phase of Water, and Catalyst Oxidation. <i>Energy & Fuels</i> , 2017 , 31, 7405-7412	4.1	8
195	Thermodynamic considerations in renal separation processes. <i>Theoretical Biology and Medical Modelling</i> , 2017 , 14, 2	2.3	1
194	Process Flow-Sheet Synthesis: Systems-Level Design applied to Synthetic Crude Production. <i>Computer Aided Chemical Engineering</i> , 2017 , 40, 643-648	0.6	
193	Gasoline Preblending for Energy-Efficient Bioethanol Recovery. <i>Energy & Fuels</i> , 2016 , 30, 8286-8294	4.1	7
192	Final Remarks, Further Reading, and Future Directions 2016 , 301-308		

191	The Attainable Region 2016 , 49-61		1
190	Reaction 2016 , 63-107		
189	Two-Dimensional Constructions 2016 , 109-141		
188	Applications of AR Theory 2016 , 191-233		
187	AR Construction Algorithms 2016 , 235-280		
186	A study of Fischer-Tropsch synthesis: Product distribution of the light hydrocarbons. <i>Applied Catalysis A: General</i> , 2016 , 517, 217-226	5.1	23
185	Use of the attainable region approach to determine major trends and optimize particle breakage in a laboratory mill. <i>Powder Technology</i> , 2016 , 291, 414-419	5.2	12
184	Effect of feeding nitrogen to a fixed bed Fischer-Tropsch reactor while keeping the partial pressures of reactants the same. <i>Chemical Engineering Journal</i> , 2016 , 293, 151-160	14.7	9
183	Kinetics of the Decomposition of Hydrogen Peroxide in Acidic Copper Sulfate Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 5589-5597	3.9	5
182	Application of basic process modeling in investigating the breakage behavior of UG2 ore in wet milling. <i>Powder Technology</i> , 2015 , 279, 42-48	5.2	22
181	Geometry and reactor synthesis: maximizing conversion of the ethyl acetate process. <i>International Journal of Industrial Chemistry</i> , 2015 , 6, 77-83	3.1	
180	Distribution between C2 and C3 in low temperature Fischer-Tropsch synthesis over a TiO ₂ -supported cobalt catalyst. <i>Applied Catalysis A: General</i> , 2015 , 506, 67-76	5.1	7
179	Batch Partial Emptying and Filling To Improve the Production Rate of Algae. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 12492-12502	3.9	
178	Use of the attainable region method to simulate a full-scale ball mill with a realistic transport model. <i>Minerals Engineering</i> , 2015 , 73, 116-123	4.9	11
177	Reactive distillation in conventional Fischer-Tropsch reactors. <i>Fuel Processing Technology</i> , 2015 , 130, 54-61	7.2	14
176	A thermodynamic approach toward defining the limits of biogas production. <i>AIChE Journal</i> , 2015 , 61, 4270-4276	3.6	3
175	Making processes work. <i>Computers and Chemical Engineering</i> , 2015 , 81, 22-31	4	6
174	A laboratory scale application of the attainable region technique on a platinum ore. <i>Powder Technology</i> , 2015 , 274, 14-19	5.2	19

173	Experimental Simulation of Three-Dimensional Attainable Region for the Synthesis of Exothermic Reversible Reaction: Ethyl Acetate Synthesis Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 2619-2626	3.9	7
172	Turning wine (waste) into water: Toward technological advances in the use of constructed wetlands for winery effluent treatment. <i>AIChE Journal</i> , 2014 , 60, 420-431	3.6	13
171	Experimental Simulation of a Two-Dimensional Attainable Region and Its Application in the Optimization of Production Rate and Process Time of an Adiabatic Batch Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 13308-13319	3.9	4
170	Batch Distillation Targets for Minimum Energy Consumption. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2751-2757	3.9	5
169	Process flow sheet synthesis: Reaching targets for idealized coal gasification. <i>AIChE Journal</i> , 2014 , 60, 3258-3266	3.6	8
168	Steady-State Attainment Period for Fischer-Tropsch Products. <i>Topics in Catalysis</i> , 2014 , 57, 582-587	2.3	3
167	Estimating rate constants of contaminant removal in constructed wetlands treating winery effluent: A comparison of three different methods. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 903-916	5.5	13
166	Scale-up of batch grinding data for simulation of industrial milling of platinum group minerals ore. <i>Minerals Engineering</i> , 2014 , 63, 100-109	4.9	15
165	Designing a Waste to Energy Plant for Informal Settlements. <i>Computer Aided Chemical Engineering</i> , 2014 , 609-614	0.6	
164	Heat transfer study with and without Fischer-Tropsch reaction in a fixed bed reactor with TiO ₂ , SiO ₂ , and SiC supported cobalt catalysts. <i>Chemical Engineering Journal</i> , 2014 , 247, 75-84	14.7	38
163	Feed distribution in distillation: Assessing benefits and limits with column profile maps and rigorous process simulation. <i>AIChE Journal</i> , 2013 , 59, 1668-1683	3.6	1
162	Application of attainable region theory to batch reactors. <i>Chemical Engineering Science</i> , 2013 , 99, 203-214	4.4	15
161	Liquid Fuels from Alternative Carbon Sources Minimizing Carbon Dioxide Emissions. <i>AIChE Journal</i> , 2013 , 59, 2062-2078	3.6	9
160	Synthesis of Two-Membrane Permeation Processes Using Residue Curve Maps and Node Classification. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 14637-14646	3.9	
159	Vapor recompression for efficient distillation. 1. A new synthesis perspective on standard configurations. <i>AIChE Journal</i> , 2013 , 59, 2977-2992	3.6	28
158	Estimating Thermodynamic and Equilibrium Quantities of Exothermic Reversible Processes. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 7630-7639	3.9	
157	Determination of the milling parameters of a platinum group minerals ore to optimize product size distribution for flotation purposes. <i>Minerals Engineering</i> , 2013 , 43-44, 67-78	4.9	33
156	A graphical approach to process synthesis and its application to steam reforming. <i>AIChE Journal</i> , 2013 , 59, 3714-3729	3.6	13

155	Experimental Measurement of Membrane Residue Curve Maps. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11142-11150	3.9	
154	Variation of residence time with chain length for products in a slurry-phase Fischer-Tropsch reactor. <i>Journal of Catalysis</i> , 2012 , 287, 93-101	7.3	20
153	Effects of CO ₂ on South African fresh water microalgae growth. <i>Environmental Progress and Sustainable Energy</i> , 2012 , 31, 24-28	2.5	10
152	Application of Column Profile Maps to Alternative Separation Processes: Membrane Permeation 2012 , 296-327		
151	A Thermodynamic Approach to Olefin Product Distribution in Fischer-Tropsch Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 16544-16551	3.9	12
150	Attainable regions for a reactor: Application of $\frac{H}{L}$ plot. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 1590-1609	5.5	3
149	A Graphical Method of Improving the Production Rate from Batch Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13562-13573	3.9	3
148	Fischer-Tropsch synthesis using H ₂ /CO/CO ₂ syngas mixtures: A comparison of paraffin to olefin ratios for iron and cobalt based catalysts. <i>Applied Catalysis A: General</i> , 2012 , 433-434, 58-68	5.1	29
147	Conversion of Synthesis Gas to Dimethylether Over Gold-based Catalysts. <i>Topics in Catalysis</i> , 2012 , 55, 771-781	2.3	9
146	Recent advances in understanding the Fischer-Tropsch synthesis (FTS) reaction. <i>Current Opinion in Chemical Engineering</i> , 2012 , 1, 296-302	5.4	32
145	Efficient Combustion: A Process Synthesis Approach to Improve the Efficiency of Coal-Fired Power Stations. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 9061-9077	3.9	5
144	Using the attainable region analysis to determine the effect of process parameters on breakage in a ball mill. <i>AIChE Journal</i> , 2012 , 58, 2665-2673	3.6	10
143	Olefin pseudo-equilibrium in the Fischer-Tropsch reaction. <i>Chemical Engineering Journal</i> , 2012 , 181-182, 667-676	14.7	19
142	The effect of CO ₂ on a cobalt-based catalyst for low temperature Fischer-Tropsch synthesis. <i>Chemical Engineering Journal</i> , 2012 , 193-194, 318-327	14.7	28
141	A vapor-liquid equilibrium thermodynamic model for a Fischer-Tropsch reactor. <i>Fluid Phase Equilibria</i> , 2012 , 314, 38-45	2.5	20
140	Environmental impacts of electric vehicles in South Africa. <i>South African Journal of Science</i> , 2012 , 108,	1.3	1
139	Derivation and Properties of Column Profile Maps 2012 , 48-90		
138	Experimental Measurement of Column Profiles 2012 , 91-115		

137 Design of Fully Thermally Coupled Complex Columns Using Column Profile Maps **2012**, 206-260

136 **2012**, 6

135 Fischer-Tropsch Synthesis Using H₂/CO/CO₂ Syngas Mixtures over an Iron Catalyst. *Industrial & Engineering Chemistry Research*, **2011**, 50, 11002-11012 3.9 58

134 **2011**, 6

133 Permeation Modeling **2011**, 7-14

132 Column Profiles for Membrane Column Sections **2011**, 65-106

131 Properties of Membrane Residue Curve Maps **2011**, 29-39

130 Synthesis and Design of Hybrid Distillation-Membrane Processes **2011**, 151-167

129 Introduction to Graphical Techniques in Membrane Separations **2011**, 15-27

128 Novel Graphical Design Methods for Complex Membrane Configurations **2011**, 107-150

127 The role of vapour-liquid equilibrium in Fischer-Tropsch product distribution. *Chemical Engineering Science*, **2011**, 66, 6254-6263 4.4 30

126 Wastewater treatment of reactive dyestuffs by ozonation in a semi-batch reactor. *Chemical Engineering Journal*, **2011**, 166, 662-668 14.7 38

125 A New Way to Look at Fischer-Tropsch Synthesis Using Flushing Experiments. *Industrial & Engineering Chemistry Research*, **2011**, 50, 4359-4365 3.9 12

124 Work to Chemical Processes: The Relationship between Heat, Temperature, Pressure, and Process Complexity. *Industrial & Engineering Chemistry Research*, **2011**, 50, 8603-8619 3.9 9

123 On Column Profile Maps: An Analysis of Sharp Splits. *Industrial & Engineering Chemistry Research*, **2011**, 50, 6331-6342 3.9 3

122 A new method of locating all pinch points in nonideal distillation systems, and its application to pinch point loci and distillation boundaries. *Computers and Chemical Engineering*, **2011**, 35, 1072-1087 4 8

121 A comparison of Au/Co/Al₂O₃ and Au/Co/SiO₂ catalysts in the Fischer-Tropsch reaction. *Applied Catalysis A: General*, **2011**, 395, 1-9 5.1 31

120 Introducing novel graphical techniques to assess gasification. *Energy Conversion and Management*, **2011**, 52, 547-563 10.6 2

119	An attainable region analysis of the effect of ball size on milling. <i>Powder Technology</i> , 2011 , 210, 36-46	5.2	27
118	Making Sense of the Fischer-Tropsch Synthesis Reaction: Start-Up. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9753-9758	3.9	17
117	Study of Radial Heat Transfer in a Tubular Fischer-Tropsch Synthesis Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10682-10688	3.9	30
116	Classification of Chemical Processes: A Graphical Approach to Process Synthesis To Improve Reactive Process Work Efficiency. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8227-8237	3.9	21
115	Complex Column Design by Application of Column Profile Map Techniques: Sharp-Split Petlyuk Column Design. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 327-349	3.9	17
114	Adapting Process Unit Relations in Experimental Data Weighting Procedures: A Phase Equilibrium Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 1975-1981	3.9	
113	A Revised Method of Attainable Region Construction Utilizing Rotated Bounding Hyperplanes. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10549-10557	3.9	10
112	Fischer-Tropsch Synthesis Using H ₂ /CO/CO ₂ Syngas Mixtures over a Cobalt Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11061-11066	3.9	67
111	An overall thermodynamic view of processes: Comparison of fuel producing processes. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 844-860	5.5	2
110	The oxidative dehydrogenation of n-butane in a differential side-stream catalytic membrane reactor. <i>Catalysis Today</i> , 2010 , 156, 237-245	5.3	7
109	Column profile maps as a tool for synthesizing complex column configurations. <i>Computers and Chemical Engineering</i> , 2010 , 34, 1487-1496	4	8
108	The effect of poly-L-lysine/alginate bead membrane characteristics on the absorption of heparin. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2009 , 37, 13-22		2
107	Systems approach to reducing energy usage and carbon dioxide emissions. <i>AIChE Journal</i> , 2009 , 55, 2202-2207	3.8	2076
106	Use of the attainable region analysis to optimize particle breakage in a ball mill. <i>Chemical Engineering Science</i> , 2009 , 64, 3766-3777	4.4	32
105	Recursive constant control policy algorithm for attainable regions analysis. <i>Computers and Chemical Engineering</i> , 2009 , 33, 309-320	4	8
104	Candidate Attainable Regions for the Oxidative Dehydrogenation of n-Butane using the Recursive Constant Control (RCC) Policy Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 5211-5222	3.9	1
103	Chemistry. Producing transportation fuels with less work. <i>Science</i> , 2009 , 323, 1680-1	33.3	36
102	Process Synthesis Targets 2009 , 699-708		1

101	Computer-aided Graphical Tools for Synthesizing Complex Column Configurations 2009 , 1007-1015		
100	Improving comminution efficiency using classification: An attainable region approach. <i>Powder Technology</i> , 2008 , 187, 252-259	5.2	20
99	Reactive column profile map topology: Continuous distillation column with non-reversible kinetics. <i>Computers and Chemical Engineering</i> , 2008 , 32, 622-629	4	4
98	Application of Membrane Residue Curve Maps to Batch and Continuous Processes. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 2361-2376	3.9	9
97	Synthesis and Integration of Chemical Processes from a Mass, Energy, and Entropy Perspective. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8756-8766	3.9	15
96	Fe-Ru small particle bimetallic catalysts supported on carbon nanotubes for use in Fischer-Tropsch synthesis. <i>Applied Catalysis A: General</i> , 2007 , 328, 243-251	5.1	81
95	Effect of cobalt carboxylate precursor chain length on Fischer-Tropsch cobalt/alumina catalysts. <i>Applied Catalysis A: General</i> , 2007 , 326, 164-172	5.1	10
94	Fischer-Tropsch synthesis over Co/TiO ₂ : Effect of ethanol addition. <i>Fuel</i> , 2007 , 86, 73-80	7.1	15
93	An experimental validation of a specific energy-based approach for comminution. <i>Chemical Engineering Science</i> , 2007 , 62, 2765-2776	4.4	22
92	Experimental Measurement of the Saddle Node Region in a Distillation Column Profile Map by Using a Batch Apparatus. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 24-30	5.5	1
91	Low-pressure methanol/ dimethylether synthesis from syngas on gold-based catalysts 2007 , 40, 219-224		10
90	Effect of the addition of Au on Co/TiO ₂ catalyst for the Fischer-Tropsch reaction. <i>Topics in Catalysis</i> , 2007 , 44, 129-136	2.3	34
89	Study of Carbon Monoxide Hydrogenation Over Supported Au Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2007 , 163, 141-151	1.8	6
88	Synthesizing a Process from Experimental Results: A Fischer-Tropsch Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 156-167	3.9	9
87	Efficiency of polymer beads in the removal of heparin: toward the development of a novel reactor. <i>Artificial Cells, Blood Substitutes, and Biotechnology</i> , 2006 , 34, 419-32		4
86	A Process Synthesis Approach To Investigate the Effect of the Probability of Chain Growth on the Efficiency of Fischer-Tropsch Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5928-5935	3.9	13
85	The Oxidative Dehydrogenation of n-Butane in a Fixed-Bed Reactor and in an Inert Porous Membrane Reactor Maximizing the Production of Butenes and Butadiene. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 2661-2671	3.9	7
84	Derivation and Properties of Membrane Residue Curve Maps. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 9080-9087	3.9	8

83	The application of the attainable region analysis to comminution. <i>Chemical Engineering Science</i> , 2006 , 61, 5969-5980	4.4	38
82	Fischer-Tropsch Results and Their Analysis for Reactor Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 5987-5994	3.9	10
81	Thermodynamics Analysis of Processes. 1. Implications of Work Integration. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3529-3537	3.9	23
80	Can the Operating Leaves of a Distillation Column Really Be Expanded?. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7511-7519	3.9	7
79	Spontaneous combustion of carbonaceous stockpiles. Part I: the relative importance of various intrinsic coal properties and properties of the reaction system. <i>Fuel</i> , 2005 , 84, 1151-1160	7.1	45
78	Spontaneous combustion of carbonaceous stockpiles. Part II. Factors affecting the rate of the low-temperature oxidation reaction. <i>Fuel</i> , 2005 , 84, 1161-1170	7.1	48
77	Fischer-Tropsch synthesis over iron catalysts supported on carbon nanotubes. <i>Applied Catalysis A: General</i> , 2005 , 287, 60-67	5.1	174
76	Experimental simulation of distillation concentration profiles using batch apparatus: Column stripping section. <i>Chemical Engineering Science</i> , 2005 , 60, 6815-6823	4.4	2
75	Column Profile Maps. 2. Singular Points and Phase Diagram Behaviour in Ideal and Nonideal Systems. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 3590-3603	3.9	23
74	Automating reactor network synthesis: finding a candidate attainable region for the water-gas shift (WGS) reaction. <i>Computers and Chemical Engineering</i> , 2004 , 28, 149-160	4	8
73	Novel separation system design using moving triangles. <i>Computers and Chemical Engineering</i> , 2004 , 29, 181-189	4	14
72	Application of the Attainable Region Concept to the Oxidative Dehydrogenation of 1-Butene in Inert Porous Membrane Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1827-1831	3.9	5
71	Column Profile Maps. 1. Derivation and Interpretation. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 364-374	3.9	38
70	Make distillation boundaries work for you!. <i>Computer Aided Chemical Engineering</i> , 2004 , 18, 499-504	0.6	
69	Novel separation system design using moving triangles. <i>Computer Aided Chemical Engineering</i> , 2003 , 832-839	0.6	1
68	MaPS (managed process synthesis). A methodology, integrated with the experimental programme, to develop a flow sheet. A first step. <i>Computer Aided Chemical Engineering</i> , 2003 , 1328-1333	0.6	
67	Expanding the operating leaves in distillation column sections by distributed feed addition and sidestream withdrawal. <i>Computer Aided Chemical Engineering</i> , 2003 , 15, 1050-1057	0.6	3
66	DSR algorithm for construction of Attainable Region structure. <i>Computer Aided Chemical Engineering</i> , 2003 , 594-599	0.6	

65	An experimental simulation of distillation column concentration profiles using a batch apparatus. <i>Chemical Engineering Science</i> , 2003 , 58, 479-486	4.4	6
64	Application of process synthesis methodology to biomedical engineering for the development of artificial organs. <i>Computer Aided Chemical Engineering</i> , 2003 , 15, 1216-1221	0.6	
63	The cost of crossing reaction equilibrium in a system that is overall adiabatic. <i>Computers and Chemical Engineering</i> , 2002 , 26, 803-809	4	5
62	Linear programming formulations for attainable region analysis. <i>Chemical Engineering Science</i> , 2002 , 57, 2015-2028	4.4	38
61	Automating Reactor Network Synthesis: Finding a Candidate Attainable Region for Water-Gas Shift(WGS) Reaction. <i>Computer Aided Chemical Engineering</i> , 2002 , 10, 217-222	0.6	1
60	Modeling Coupled Distillation Column Sections Using Profile Maps. <i>Computer Aided Chemical Engineering</i> , 2002 , 211-216	0.6	
59	The attainable region and process synthesis: reaction systems with external cooling and heating. <i>Chemical Engineering Science</i> , 2001 , 56, 173-191	4.4	15
58	Costing distillation systems from residue curve based designs. <i>Computers and Chemical Engineering</i> , 2000 , 24, 1275-1280	4	3
57	Convex attainable region projections for reactor network synthesis. <i>Computers and Chemical Engineering</i> , 2000 , 24, 225-229	4	31
56	The effect of sulfur on supported cobalt Fischer-Tropsch catalysts. <i>Catalysis Today</i> , 1999 , 49, 33-40	5.3	38
55	The Attainable Region and Pontryagin's Maximum Principle. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 652-659	3.9	12
54	Choosing Optimal Control Policies Using the Attainable Region Approach. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 639-651	3.9	27
53	Fischer-Tropsch synthesis: DRIFTS and SIMS surface investigation of Co and Co/Ru on titania supports. <i>Studies in Surface Science and Catalysis</i> , 1997 , 107, 243-248	1.8	4
52	Process synthesis for reaction systems with cooling via finding the Attainable Region. <i>Computers and Chemical Engineering</i> , 1997 , 21, S35-S40	4	9
51	Reactor and process synthesis. <i>Computers and Chemical Engineering</i> , 1997 , 21, S775-S783	4	26
50	Process synthesis for reaction systems with cooling via finding the Attainable Region. <i>Computers and Chemical Engineering</i> , 1997 , 21, S35-S40	4	14
49	A catalytic trap for low-temperature complete NO reduction in oxygen-rich media. <i>Chemical Communications</i> , 1996 , 2081	5.8	3
48	A periodic flow reversal reactor: An infinitely fast switching model and a practical proposal for its implementation. <i>Canadian Journal of Chemical Engineering</i> , 1996 , 74, 760-765	2.3	4

47	An experimental and modeling study of fires in ventilated ducts. Part II: PMMA and stratification. <i>Combustion and Flame</i> , 1996 , 104, 138-156	5.3	5
46	Optimal reactor structures for exothermic reversible reactions with complex kinetics. <i>Chemical Engineering Science</i> , 1996 , 51, 2399-2407	4.4	21
45	Variables indicating the cost of vapour-liquid equilibrium separation processes. <i>Chemical Engineering Science</i> , 1996 , 51, 4749-4757	4.4	14
44	Attainable products for the vapour-liquid separation of homogeneous ternary mixtures. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1995 , 59, 51-70		4
43	An anatomic and physiological model of hepatic vascular system. <i>Journal of Applied Physiology</i> , 1995 , 79, 1008-26	3.7	4
42	DRIFT spectroscopy and optical reflectance of heat-treated coal from a quenched gasifier. <i>Fuel</i> , 1995 , 74, 1216-1219	7.1	14
41	An experimental and modeling study of fires in ventilated ducts. Part I: Liquid fuels. <i>Combustion and Flame</i> , 1994 , 96, 428-442	5.3	3
40	Predicting phase and chemical equilibrium using the convex hull of the Gibbs free energy. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994 , 54, 187-197		10
39	The attainable region for systems with mixing and multiple-rate processes: finding optimal reactor structures. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994 , 54, 175-186		5
38	The Attainable Region for Segregated, Maximum Mixed, and Other Reactor Models. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 1136-1144	3.9	19
37	Optimal mixing for exothermic reversible reactions. <i>Industrial & Engineering Chemistry Research</i> , 1992 , 31, 1541-1549	3.9	30
36	Analysis of an exothermic reversible reaction in a catalytic reactor with periodic flow reversal. <i>Chemical Engineering Science</i> , 1992 , 47, 1825-1837	4.4	16
35	SELF-IGNITION AND CONVECTION PATTERNS IN AN INFINITE COAL LAYER. <i>Chemical Engineering Communications</i> , 1991 , 105, 255-278	2.2	19
34	The attainable region and optimal reactor structures. <i>Chemical Engineering Science</i> , 1990 , 45, 2161-2168	4.4	103
33	Thermal convection and surface temperatures in porous media. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 1321-1330	4.9	7
32	Geometry of the attainable region generated by reaction and mixing: with and without constraints. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 49-58	3.9	101
31	A study of the low temperature oxidation of coal. <i>Fuel Processing Technology</i> , 1989 , 21, 81-97	7.2	106
30	Spontaneous combustion of coal stockpiles - an unusual chemical reaction engineering problem. <i>Chemical Engineering Science</i> , 1988 , 43, 2139-2145	4.4	23

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