Andrzej Gorak

List of Publications by Year
in descending order

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203 papers	5,036 citations	81900 39 h-index	138484 58 g-index
237 all docs	237 docs citations	237 times ranked	3037 citing authors

#	Article	IF	Citations
1	Modelling of reactive separation processes: reactive absorption and reactive distillation. Chemical Engineering and Processing: Process Intensification, 2003, 42, 157-178.	3.6	187
2	Process intensification and process systems engineering: A friendly symbiosis. Computers and Chemical Engineering, 2008, 32, 3-11.	3.8	168
3	On the modelling and simulation of sour gas absorption by aqueous amine solutions. Chemical Engineering Science, 2003, 58, 3571-3578.	3.8	124
4	Sustainable process synthesisâ€“intensification. Computers and Chemical Engineering, 2015, 81, 218-244.	3.8	110
5	Hybrid separation processesâ€”Combination of reactive distillation with membrane separation. Chemical Engineering and Processing: Process Intensification, 2007, 46, 790-799.	3.6	92
6	Reactive and membrane-assisted distillation: Recent developments and perspective. Chemical Engineering Research and Design, 2013, 91, 1978-1997.	5.6	89
7	Kinetics of the Gasâ^'Liquid Reaction between Carbon Dioxide and Hydroxide Ions. Industrial & Engineering Chemistry Research, 2002, 41, 5952-5957.	3.7	86
8	Review of the application of ionic liquids as solvents for chitin. Journal of Polymer Engineering, 2012, 32, .	1.4	84
9	Rate-based modelling and simulation of reactive separations in gas/vapourâ€“liquid systems. Chemical Engineering and Processing: Process Intensification, 2005, 44, 617-629.	3.6	79
10	Catalytic distillation in structured packings: Methyl acetate synthesis. AICHE Journal, 2001, 47, 1067-1076.	3.6	78
11	Determination of gasâ€“liquid reaction kinetics with a stirred cell reactor. Separation and Purification Technology, 2003, 31, 163-175.	7.9	78
12	Intensified Reaction and Separation Systems. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 431-451.	6.8	78
13	Recovery of n-butanol using ionic liquid-based pervaporation membranes. Separation and Purification Technology, 2012, 97, 108-114.	7.9	77
14	Liquid Flow on Structured Packing: CFD Simulation and Experimental Study. Chemical Engineering and Technology, 2003, 26, 580-584.	1.5	75
15	Investigation of ethyl acetate reactive distillation process. Chemical Engineering Science, 2001, 56, 6185-6193.	3.8	74
16	Transesterification of dimethyl carbonate with ethanol in a pilot-scale reactive distillation column. Chemical Engineering Journal, 2012, 180, 309-322.	12.7	70
17	A guide on the industrial application of rotating packed beds. Chemical Engineering Research and Design, 2018, 134, 443-462.	5.6	70
18	Transesterification of Dimethyl Carbonate with Ethanol To Form Ethyl Methyl Carbonate and Diethyl Carbonate: A Comprehensive Study on Chemical Equilibrium and Reaction Kinetics. Industrial & Engineering Chemistry Research, 2011, 50, 11073-11086.	3.7	66

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19	Reactive absorption: Optimal process design via optimal modelling. Chemical Engineering Science, 2001, 56, 343-350.	3.8	65
20	Investigation of different column configurations for the ethyl acetate synthesis via reactive distillation. Chemical Engineering and Processing: Process Intensification, 2004, 43, 791-801.	3.6	63
21	Scale-up of reactive distillation columns with catalytic packings. Chemical Engineering and Processing: Process Intensification, 2004, 43, 383-395.	3.6	62
22	Standardization of Mass Transfer Measurements. Chemical Engineering Research and Design, 2007, 85, 40-49.	5.6	61
23	Process Analysis of Hybrid Separation Processes. Chemical Engineering Research and Design, 2006, 84, 595-600.	5.6	54
24	Investigation of gas stripping and pervaporation for improved feasibility of two-stage butanol production process. Bioresource Technology, 2013, 136, 102-108.	9.6	52
25	Review and analysis of micromixing in rotating packed beds. Chemical Engineering Journal, 2018, 345, 492-506.	12.7	52
26	A film model based approach for simulation of multicomponent reactive separation. Chemical Engineering and Processing: Process Intensification, 1995, 34, 97-103.	3.6	51
27	Modelling, design and flexibility analysis of rotating packed beds for distillation. Chemical Engineering Research and Design, 2015, 94, 72-89.	5.6	51
28	Biodiesel production from waste cooking oils through esterification: Catalyst screening, chemical equilibrium and reaction kinetics. Chemical Engineering Research and Design, 2016, 107, 52-62.	5.6	51
29	Dynamic catalytic distillation: Advanced simulation and experimental validation. Computers and Chemical Engineering, 1998, 22, S371-S378.	3.8	50
30	Highly integrated reactorâ€“separator systems for the recycling of homogeneous catalysts. Chemical Engineering and Processing: Process Intensification, 2016, 99, 124-131.	3.6	48
31	Design and optimization of a hybrid distillation/melt crystallization process. AICHE Journal, 2008, 54, 2925-2942.	3.6	46
32	Rigorous dynamic modelling of complex reactive absorption processes. Chemical Engineering Science, 1999, 54, 5195-5203.	3.8	45
33	Modelling of the reactive absorption of CO2 using mono-ethanolamine. International Journal of Greenhouse Gas Control, 2013, 17, 294-308.	4.6	45
34	Synthesis of dimethyl carbonate and propylene glycol in a pilot-scale reactive distillation column: Experimental investigation, modeling and process analysis. Chemical Engineering Journal, 2013, 234, 448-463.	12.7	45
35	Optimisation of industrial-scale n-butyl acrylate production using reactive distillation. Chemical Engineering Science, 2013, 100, 360-372.	3.8	44
36	Synthesis of dimethyl carbonate and propylene glycol by transesterification of propylene carbonate with methanol: Catalyst screening, chemical equilibrium and reaction kinetics. Chemical Engineering Science, 2013, 104, 347-360.	3.8	43

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37	Rigorous Modeling of Reactive Absorption Processes. Chemical Engineering and Technology, 2003, 26, 631-646.	1.5	42
38	Dynamic Modelling of Reactive Absorption with the Maxwell-Stefan Approach. Chemical Engineering Research and Design, 1999, 77, 633-638.	5.6	41
39	Extraction of 1,3-propanediol from aqueous solutions using different ionic liquid-based aqueous two-phase systems. Separation and Purification Technology, 2012, 97, 130-136.	7.9	41
40	Design of hybrid distillation/melt crystallisation processes for separation of close boiling mixtures. Chemical Engineering and Processing: Process Intensification, 2013, 67, 16-24.	3.6	39
41	Modeling of homogeneous reactive separation processes in packed columns. Chemical Engineering Science, 1999, 54, 19-34.	3.8	38
42	Model-based design, control and optimisation of catalytic distillation processes. Chemical Engineering and Processing: Process Intensification, 2004, 43, 421-434.	3.6	38
43	Process analysis and optimisation of hybrid processes for the dehydration of ethanol. Chemical Engineering Research and Design, 2013, 91, 1171-1185.	5.6	38
44	Single stage aqueous two-phase extraction for monoclonal antibody purification from cell supernatant. Fluid Phase Equilibria, 2015, 385, 227-236.	2.5	38
45	Esterification of Acrylic Acid and n-Butanol in a Pilot-Scale Reactive Distillation Columnâ€"Experimental Investigation, Model Validation, and Process Analysis. Industrial & Engineering Chemistry Research, 2012, 51, 16444-16456.	3.7	37
46	On the development of new column internals for reactive separations via integration of CFD and process simulation. Catalysis Today, 2003, 79-80, 479-485.	4.4	36
47	Multi-stage laccase extraction and separation using aqueous two-phase systems: Experiment and model. Process Biochemistry, 2014, 49, 1020-1031.	3.7	36
48	Continuous multi-stage extraction of n-butanol from aqueous solutions with 1-hexyl-3-methylimidazolium tetracyanoborate. Separation and Purification Technology, 2013, 120, 415-422.	7.9	35
49	Optimisation-based design method for membrane-assisted separation processes. Chemical Engineering and Processing: Process Intensification, 2013, 67, 2-15.	3.6	34
50	Modeling of Reactive Absorption Using the Maxwellâ€'Stefan Equations. Industrial & Engineering Chemistry Research, 1997, 36, 4325-4334.	3.7	33
51	Modelling of organic-solvent flux through a polyimide membrane. Journal of Membrane Science, 2013, 428, 554-561.	8.2	33
52	An integrated tool for synthesis and design of reactive distillation. Chemical Engineering Science, 1999, 54, 1347-1352.	3.8	32
53	Reactive distillation: Non-ideal flow behaviour of the liquid phase in structured catalytic packings. Chemical Engineering Science, 2002, 57, 1545-1549.	3.8	32
54	Single drop mass transfer in ternary and quaternary liquidâ€"liquid extraction systems. Chemical Engineering and Processing: Process Intensification, 2003, 42, 825-840.	3.6	32

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55	Mass Transfer Studies in a Pilot Scale RPB with Different Packing Diameters. Industrial & Engineering Chemistry Research, 2018, 57, 2258-2266.	3.7	32
56	Pervaporation of binary and ternary mixtures of acetone, isopropyl alcohol and water using polymeric membranes: Experimental characterisation and modelling. Chemical Engineering Science, 2014, 115, 95-114.	3.8	31
57	Characterisation of Organic Solvent Nanofiltration membranes in multi-component mixtures: Process design workflow for utilising targeted solvent modifications. Chemical Engineering Science, 2014, 115, 115-126.	3.8	31
58	Experimental model validation for n-propyl propionate synthesis in a reactive distillation column coupled with a liquidâ€“liquid phase separator. Chemical Engineering Science, 2011, 66, 4889-4900.	3.8	30
59	Optimal operation of a semi-batch reactive distillation column. Computers and Chemical Engineering, 2000, 24, 1569-1575.	3.8	29
60	Pilot plant synthesis of n-propyl propionate via reactive distillation with decanter separator for reactant recovery. Experimental model validation and simulation studies. Chemical Engineering and Processing: Process Intensification, 2010, 49, 965-972.	3.6	29
61	Modification of chitin particles with chloride ionic liquids. Materials Letters, 2016, 164, 341-343.	2.6	29
62	Towards the Development of Advanced Packing Design for Distillation in Rotating Packed Beds. Chemie-Ingenieur-Technik, 2019, 91, 1663-1673.	0.8	29
63	Determination of catalytic packing characteristics for reactive distillation. Catalysis Today, 2001, 69, 75-85.	4.4	28
64	Dynamic simulation of industrial reactive absorption processes. Chemical Engineering and Processing: Process Intensification, 2003, 42, 955-964.	3.6	28
65	Synthesis of n-propyl propionate in a pilot-plant reactive distillation column: Experimental study and simulation. Computers and Chemical Engineering, 2012, 39, 118-128.	3.8	28
66	Modelling of homogeneously catalysed reactive distillation processes in packed columns: Experimental model validation. Computers and Chemical Engineering, 2013, 48, 74-88.	3.8	28
67	Dynamic modeling and simulation of reactive batch distillation. Computers and Chemical Engineering, 2001, 25, 169-176.	3.8	27
68	A systematic investigation of microwave-assisted reactive distillation: Influence of microwaves on separation and reaction. Chemical Engineering and Processing: Process Intensification, 2015, 93, 87-97.	3.6	27
69	Mass transfer measurements in absorption and desorption: Determination of mass transfer parameters. Chemical Engineering Research and Design, 2015, 104, 440-452.	5.6	27
70	Comparison of numerical and analytical solutions of a multicomponent reaction-mass-transfer problem in terms of the film model. Chemical Engineering Science, 2000, 55, 1483-1496.	3.8	26
71	Energy-efficient solvent regeneration in enzymatic reactive absorption for carbon dioxide capture. Applied Energy, 2017, 208, 263-276.	10.1	26
72	The inhibition of acrylic acid and acrylate ester polymerisation in a heterogeneously catalysed pilot-scale reactive distillation column. Chemical Engineering Science, 2013, 88, 95-107.	3.8	25

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73	Experimental investigations on the upper operating limit in rotating packed beds. Chemical Engineering and Processing: Process Intensification, 2017, 121, 240-247.	3.6	25
74	Modification of chitin structure with tailored ionic liquids. Carbohydrate Polymers, 2018, 202, 397-403.	10.2	25
75	Analysis of Flow Patterns in Highâ€Gravity Equipment Using Gammaâ€Ray Computed Tomography. Chemie-Ingenieur-Technik, 2019, 91, 1032-1040.	0.8	25
76	Dry Pressure Drop in Rotating Packed Bedsâ€"Systematic Experimental Studies. Industrial & Engineering Chemistry Research, 2017, 56, 12395-12405.	3.7	24
77	Distillation Lines for Multicomponent Separation in Packed Columns:â€‰ Theory and Comparison with Experiment. Industrial & Engineering Chemistry Research, 1997, 36, 5392-5398.	3.7	23
78	Application of supported ionic liquid membranes (SILMs) for biobutanol pervaporation. Separation and Purification Technology, 2015, 155, 83-88.	7.9	23
79	A novel approach for process retrofitting through process intensification: Ethylene oxide case study. Chemical Engineering Research and Design, 2017, 123, 295-316.	5.6	23
80	Enzymatic reactive absorption of CO2 in MDEA by means of an innovative biocatalyst delivery system. Chemical Engineering Journal, 2018, 334, 1195-1205.	12.7	23
81	Advanced rate-based simulation tool for reactive distillation. AICHE Journal, 2004, 50, 322-342.	3.6	22
82	n-Propyl Propionate Synthesis via Catalytic Distillation - Experimental Investigation in Pilot-Scale. Industrial & Engineering Chemistry Research, 2012, 51, 891-899.	3.7	22
83	Optimization-Based Approach to Process Synthesis for Process Intensification: Synthesis of Reaction-Separation Processes. Industrial & Engineering Chemistry Research, 2018, 57, 3639-3655.	3.7	22
84	On the reactant concentration and the reaction kinetics in the Villermaux-Dushman protocol. Chemical Engineering and Processing: Process Intensification, 2018, 130, 332-341.	3.6	22
85	Recent Advances in Experimental Techniques forÂFlow and Mass Transfer Analyses in Thermal Separation Systems. Chemie-Ingenieur-Technik, 2020, 92, 926-948.	0.8	22
86	Mikrodestillation von Mehrkomponentensystemen. Chemie-Ingenieur-Technik, 1996, 68, 272-276.	0.8	20
87	Simulation of a human serum albumin downstream process incorporating ion-exchange membrane adsorbers. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1128-1138.	3.6	20
88	Pilot scale testing and modeling of enzymatic reactive absorption in packed columns for CO2 capture. International Journal of Greenhouse Gas Control, 2017, 62, 100-112.	4.6	20
89	Computer aided design, analysis and experimental investigation of membrane assisted batch reactionâ€"separation systems. Computers and Chemical Engineering, 2009, 33, 551-574.	3.8	19
90	Methodology for design and analysis of reactive distillation involving multielement systems. Chemical Engineering Research and Design, 2011, 89, 1295-1307.	5.6	19

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91	Reactive Distillation for Multiple-Reaction Systems: Optimisation Study Using an Evolutionary Algorithm. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2013, 34, 17-38.	0.7	19
92	Multistage aqueous twoâ€phase extraction of a monoclonal antibody from cell supernatant. Biotechnology Progress, 2015, 31, 925-936.	2.6	19
93	Catalytic Distillation for TAME Synthesis with Structured Catalytic Packings. Chemical Engineering Research and Design, 2004, 82, 175-184.	5.6	18
94	Experimental study on multicomponent distillation in packed columns. Chemical Engineering and Processing: Process Intensification, 2001, 40, 235-243.	3.6	17
95	Prozessintensivierung: Reaktive und membranunterstÃ¼tzte Rektifikation. Chemie-Ingenieur-Technik, 2007, 79, 1581-1600.	0.8	17
96	Reactive distillation â€" experimental data for propyl propionate synthesis. Chemical Papers, 2008, 62, .	2.2	17
97	Demixing behavior of binary polymer mixtures. Journal of Molecular Liquids, 2015, 209, 42-49.	4.9	17
98	Evaluation of the Enzymatic Reactive Distillation for the Production of Chiral Compounds. Chemie-Ingenieur-Technik, 2016, 88, 147-157.	0.8	17
99	Partitioning of laccases derived from Cerrena unicolor and Pleurotus sapidus in polyethylene glycol â€“ phosphate aqueous twoâ€“phase systems. Process Biochemistry, 2018, 67, 165-174.	3.7	17
100	Dynamic Performance Optimization of a Pilot-Scale Reactive Distillation Process by Economics Optimizing Control. Industrial & Engineering Chemistry Research, 2018, 57, 12165-12181.	3.7	16
101	Dynamic rate-based model for multicomponent batch distillation. AICHE Journal, 1999, 45, 1953-1962.	3.6	15
102	Modelling of combined direct-contact condensation and reactive absorption in packed columns. Chemical Engineering Journal, 2009, 146, 362-369.	12.7	15
103	Investigation of a phosphate/1-butyl-3-methylimidazolium trifluoromethanesulfonate/water system for the extraction of 1,3-propanediol from fermentation broth. RSC Advances, 2013, 3, 148-156.	3.6	15
104	Comparison of downstream processing methods in purification of highly active laccase. Bioprocess and Biosystems Engineering, 2019, 42, 1635-1645.	3.4	15
105	Kinetics of chitin deacetylase activation by the ionic liquid [Bmim][Br]. Journal of Biotechnology, 2017, 251, 94-98.	3.8	14
106	On the reliability of lab-scale experiments for the determination of membrane specific flux measurements in organic solvent nanofiltration. Chemical Engineering Research and Design, 2019, 148, 271-279.	5.6	14
107	Liquid Distribution and Mixing in Rotating Packed Beds. Industrial & Engineering Chemistry Research, 2019, 58, 5919-5928.	3.7	14
108	Experimental Study of Ternary Distillation in a Packed Column. Separation Science and Technology, 1985, 20, 33-61.	2.5	13

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109	TAEE synthesis from isoamylenes and ethanol by catalytic distillation: Pilot plant experiments and model validation. Fuel Processing Technology, 2012, 102, 1-10.	7.2	13
110	Optimal design of catalytic distillation columns: A case study on synthesis of TAEE. Chemical Engineering Research and Design, 2014, 92, 391-404.	5.6	13
111	Modeling of liquidâ€“liquid equilibrium in the quinary system of water, acetone, n-butanol, ethanol, and ionic liquid. Fluid Phase Equilibria, 2014, 384, 114-121.	2.5	13
112	Laccase concentration by foam fractionation of Cerrena unicolor and Pleurotus sapidus culture supernatants. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2017, 38, 455-464.	0.7	13
113	Modification of Chitin Particles with Ionic Liquids Containing Ethyl Substituent in a Cation. Advances in Materials Science and Engineering, 2017, 2017, 1-9.	1.8	13
114	Enzyme-enhanced CO2 absorption process in rotating packed bed. Chemical Papers, 2019, 73, 861-869.	2.2	13
115	Evaluation of performance improvements through application of anisotropic foam packings in rotating packed beds. Chemical Engineering Science, 2021, 230, 116176.	3.8	13
116	Design of Hybrid Distillation/Melt Crystallization Processes for Separation of Closeâ€Boiling Mixtures. Chemie-Ingenieur-Technik, 2012, 84, 2035-2047.	0.8	12
117	New ionic liquids for modification of chitin particles. Research on Chemical Intermediates, 2018, 44, 4841-4854.	2.7	12
118	Optimal operation processes of discrete-continuous biochemical processes. Computers and Chemical Engineering, 2000, 24, 1167-1173.	3.8	11
119	Different recycling concepts in the homogeneously catalysed synthesis of terpenyl amines. Chemical Engineering and Processing: Process Intensification, 2015, 98, 22-31.	3.6	11
120	Fuzzy dynamic programming in the synthesis of distillation column systems. Computers and Chemical Engineering, 1989, 13, 611-618.	3.8	10
121	Design and optimization of a nitric acid recovery plant from nitrous waste gases. Computers and Chemical Engineering, 1996, 20, S1425-S1430.	3.8	10
122	Reactive Absorption. , 2005, , 265-311.		10
123	Process intensification and process system engineering: a friendly symbiosis. Computer Aided Chemical Engineering, 2006, , 29-37.	0.5	10
124	Sustainable Process Synthesis-Intensification. Computer Aided Chemical Engineering, 2014, , 255-260.	0.5	10
125	Enzyme Accelerated Carbon Capture in different Contacting Equipment - A Comparative Study. Energy Procedia, 2017, 114, 795-812.	1.8	10
126	Dynamic and steady state simulation of coke oven gas purification. Computers and Chemical Engineering, 1999, 23, S843-S846.	3.8	9

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127	Modeling of single- and multi-stage extraction in the system of water, acetone, butanol, ethanol and ionic liquid. Fluid Phase Equilibria, 2016, 425, 365-373.	2.5	9
128	Techno-economic evaluation of an ultrasound-assisted Enzymatic Reactive Distillation process. Computers and Chemical Engineering, 2017, 105, 123-131.	3.8	9
129	Reactive mixing in rotating packed beds: On the packingâ€™s role and mixing modeling. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107596.	3.6	9
130	Simulation und Optimierung der Mehrstoff-Rektifikation. Chemie-Ingenieur-Technik, 1987, 59, 95-106.	0.8	8
131	Dynamic modelling and simulation of reactive batch distillation. Computers and Chemical Engineering, 1999, 23, S423-S426.	3.8	8
132	The Need for Standardization of Mass Transfer Measurements in Absorption and Desorption. Chemie-Ingenieur-Technik, 2012, 84, 1931-1938.	0.8	8
133	Design of reactive distillation processes for the production of butyl acrylate: Impact of bio-based raw materials. Chinese Journal of Chemical Engineering, 2015, 23, 1840-1850.	3.5	8
134	Deterministic global optimization in conceptual process design of distillation and melt crystallization. Chemical Engineering and Processing: Process Intensification, 2016, 99, 132-142.	3.6	8
135	Energy efficiency as an example of cross-discipline collaboration in chemical engineering. Chemical Engineering Research and Design, 2017, 119, 183-187.	5.6	8
136	Aroma absorption in a rotating packed bed with a tailor-made archimedean spiral packing. Chemical Engineering Science, 2021, 231, 116334.	3.8	8
137	Simulation of a multicomponent extraction process by a nonequilibrium stage model incorporating a drop population model. Computers and Chemical Engineering, 1992, 16, S403-S410.	3.8	7
138	Model Optimization for the Dynamic Simulation of Reactive Absorption Processes. Chemical Engineering and Technology, 2001, 24, 979-989.	1.5	7
139	Residence time distribution study for the catalytic packing MULTIPAKÂ®. Chemical Papers, 2006, 60, .	2.2	7
140	Modeling of Reactive Distillation. , 0, , 323-363.		7
141	Process Intensification in Fluid Separation Processes. Chemie-Ingenieur-Technik, 2011, 83, 935-951.	0.8	7
142	Conceptual Design of Post-Combustion CO2 Capture Processes - Packed Columns and Membrane Technologies. Computer Aided Chemical Engineering, 2015, , 1223-1228.	0.5	7
143	Dynamische Modellierung und Simulation von Membranreaktoren zur Estersynthese. Chemie-Ingenieur-Technik, 2000, 72, 867-871.	0.8	6
144	Modeling of counter current monoclonal antibody extraction using aqueous two-phase systems. Computer Aided Chemical Engineering, 2007, , 935-940.	0.5	6

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145	Computer-aided process design of affinity membrane adsorbers: a case study on antibodies capturing. Chemical Papers, 2008, 62, 458.	2.2	6
146	Experimental model validation of an integrated process for the removal of carbon dioxide from aqueous ammonia solutions. Chemical Engineering Research and Design, 2011, 89, 1252-1260.	5.6	6
147	Process design of integrated reaction and membrane separation by organic solvent nanofiltration using evolutionary algorithms. Computer Aided Chemical Engineering, 2012, , 727-731.	0.5	6
148	Purification of biomolecules combining ATPS and membrane chromatography. Food and Bioproducts Processing, 2014, 92, 152-160.	3.6	6
149	Methode zur Simulation der periodischen Rektifikation mit vollstÃndigem RÃ¼cklauf. Chemie-Ingenieur-Technik, 1988, 60, 555-557.	0.8	5
150	Erfahrungen mit den dynamischen Simulatoren DIVA, gPROMSund ABACUSS. Chemie-Ingenieur-Technik, 1997, 69, 650-653.	0.8	5
151	Experimental and theoretical studies of the TAME synthesis by reactive distillation. Computer Aided Chemical Engineering, 2003, 14, 713-718.	0.5	5
152	Experimental and theoretical investigation of multistage extraction of 1,3â€propanediol using the extraction system phosphate/1â€butylâ€3â€methylimidazolium trifluoromethanesulfonate/water. Biotechnology Progress, 2013, 29, 933-942.	2.6	5
153	Reactive distillation for production of n-butyl acrylate from bio-based raw materials. Computer Aided Chemical Engineering, 2013, , 223-228.	0.5	5
154	Dynamische Simulation reaktiver Absorptionsprozesse am Beispiel einer SauergaswÃsche: Modellentwicklung, -analyse und -optimierung. Chemie-Ingenieur-Technik, 2000, 72, 1224-1229.	0.8	4
155	Towards Improvement of Reactive Separation Performance Using Computational Fluid Dynamics. Chemie-Ingenieur-Technik, 2001, 73, 773-773.	0.8	4
156	Hybride Trennverfahren: Verschaltung von Reaktivrektifikation und Dampfpermeation. Chemie-Ingenieur-Technik, 2008, 80, 145-156.	0.8	4
157	Modeling, Simulation and Experimental Investigation of a Reactive Hybrid Process for the Production of Dimethyl Carbonate. Computer Aided Chemical Engineering, 2012, , 1241-1245.	0.5	4
158	Partitioning of cerrena unicolor laccase activity in an aqueous two-phase system. Chemical and Process Engineering - Inzynieria Chemiczna I Procesowa, 2016, 37, 269-280.	0.7	4
159	Process Intensification in Practice: Ethylene Glycol Case Study. Lecture Notes on Multidisciplinary Industrial Engineering, 2018, , 17-34.	0.6	4
160	Continuous laccase concentration in an aqueous two-phase system. Chemical Papers, 2018, 72, 555-566.	2.2	4
161	Reactive Distillation. , 2018, , .		4
162	Grenzen einfacher Methoden zur Berechnung der Mehrstoff-Rektifikation in FÃ¼llkÃ¶rper-Kolonnen. Chemie-Ingenieur-Technik, 1986, 58, 916-917.	0.8	3

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163	The weibull distribution to represent turbulent transfer. AICHE Journal, 1987, 33, 1394-1396.	3.6	3
164	A new model fo equimolar multicomponent mass transfer in a boundary layer. Chemical Engineering Science, 1989, 44, 433-435.	3.8	3
165	Linearization of equilibrium relationships in multicomponent mass transfer models. Chemical Engineering and Processing: Process Intensification, 1990, 27, 27-31.	3.6	3
166	Enzymatic Reactive Distillation for the Transesterification of Ethyl Butyrate: Model Validation and Process Analysis. Computer Aided Chemical Engineering, 2015, 37, 2135-2140.	0.5	3
167	Economic evaluation of rotating packed bed use for aroma absorption from bioreactor off-gas. Chemical Engineering and Processing: Process Intensification, 2020, 154, 108011.	3.6	3
168	Anwendung der Fuzzy Logik in der Simulation thermischer Trennverfahren. Chemie-Ingenieur-Technik, 1994, 66, 94-96.	0.8	2
169	Modeling and experimental validation of both mass transfer and tray hydraulics in batch distillation. Computers and Chemical Engineering, 1996, 20, S575-S580.	3.8	2
170	Simulation and optimisation of the downstream process for purification of human serum albumin by using ion exchange membrane adsorbers. Desalination, 2006, 200, 468-469.	8.2	2
171	Optimierung der Herstellung von Biotensiden auf Basis nachwachsender Rohstoffe. Chemie-Ingenieur-Technik, 2010, 82, 1239-1243.	0.8	2
172	Simulation of Reactive Absorption: Model Validation for CO2-MEA system. Computer Aided Chemical Engineering, 2011, 29, 61-65.	0.5	2
173	Reactive Distillation for Multiple Reaction Systems. Chemie-Ingenieur-Technik, 2013, 85, 550-563.	0.8	2
174	Integrated processing for the separation of biobutanol. Part A: experimental investigation and process modelling. Green Processing and Synthesis, 2013, 2, .	3.4	2
175	Application of Economics Optimizing Control to a Two-step Transesterification Reaction in a Pilot-Scale Reactive Distillation Column. IFAC-PapersOnLine, 2018, 51, 67-72.	0.9	2
176	Performance Evaluation of Rotating Packed Beds for Distillation Using Improved Packing Design. Chemie-Ingenieur-Technik, 2018, 90, 1312-1312.	0.8	2
177	Grand Challenges and Chemical Engineering Curriculum â€“ Developments at TU Dortmund University. Universal Journal of Educational Research, 2016, 4, 200-204.	0.2	2
178	Reactive Distillation: Non-Ideal Flow Behaviour of the Liquid Phase in Structured Catalytic Packings. Chemie-Ingenieur-Technik, 2001, 73, 773-774.	0.8	1
179	Modelling and simulation of a combined membrane/distillation process. Computer Aided Chemical Engineering, 2003, 14, 743-748.	0.5	1
180	Reactive and hybrid separations of chemicals and bioactive substances: Modeling and optimization. Computer Aided Chemical Engineering, 2007, 24, 7-8.	0.5	1

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