

Ricardo A F Machado

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.

132
papers

1,506
citations

19
h-index

31
g-index

146
ext. papers

1,900
ext. citations

4.1
avg, IF

5.13
L-index

#	Paper	IF	Citations
132	Flexible and Porous Nonwoven SiCN Ceramic Material via Electrospinning of an Optimized Silazane Solution. <i>Advanced Engineering Materials</i> , 2022 , 24, 2270005	3.5	
131	Membrane distillation for the recovery textile wastewater: Influence of dye concentration. <i>Journal of Water Process Engineering</i> , 2022 , 46, 102611	6.7	1
130	Potential of macauba endocarp (<i>Acrocomia aculeate</i>) for bioenergy production: Multi-component kinetic study and estimation of thermodynamic parameters of activation. <i>Thermochimica Acta</i> , 2022 , 708, 179134	2.9	2
129	Prospection of catole coconut (<i>Syagrus cearensis</i>) as a new bioenergy feedstock: Insights from physicochemical characterization, pyrolysis kinetics, and thermodynamics parameters. <i>Renewable Energy</i> , 2022 , 181, 207-218	8.1	8
128	Evaluating the bioenergy potential of cupuassu shell through pyrolysis kinetics, thermodynamic parameters of activation, and evolved gas analysis with TG/FTIR technique. <i>Thermochimica Acta</i> , 2022 , 711, 179187	2.9	1
127	Investigation on prospective bioenergy from pyrolysis of butia seed waste using TGA-FTIR: Assessment of kinetic triplet, thermodynamic parameters and evolved volatiles. <i>Renewable Energy</i> , 2022 , 191, 238-250	8.1	1
126	Triethylene glycol recovery by an energetically intensified thermosyphon-assisted falling film distillation unit: Experimental assessment on a pilot-scale unit and in-silico comparison with a conventional column from natural gas processing. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022 , 176, 108970	3.7	
125	Influence of multi-component composition of dyeing bath in the membrane distillation performance. <i>Chemical Engineering Research and Design</i> , 2021 , 156, 184-195	5.5	1
124	Membrane Distillation: Experimental evaluation of Liquid Entry Pressure in commercial membranes with textile dye solutions. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102339	6.7	2
123	Membrane Surface Modification by Electrospinning, Coating, and Plasma for Membrane Distillation Applications: A State-of-the-Art Review. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001456	3.5	13
122	Development and scale-up of thermoplastic poly(ether-ester) glycol polyurethanes for flexography. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51273	2.9	1
121	The influence of pyrolysis temperature on the oxidation resistance of carbon-rich SiCN ceramics derived from reaction of silazanes with acrylonitrile. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 3285-3291	6	2
120	Understanding the effects of operational conditions on the membrane distillation process applied to the recovery of water from textile effluents. <i>Chemical Engineering Research and Design</i> , 2021 , 145, 285-292	5.5	12
119	Machine learning modeling and genetic algorithm-based optimization of a novel pilot-scale thermosyphon-assisted falling film distillation unit. <i>Separation and Purification Technology</i> , 2021 , 259, 118122	8.3	4
118	Modeling and experimental validation of direct contact membrane distillation applied to synthetic dye solutions. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 909-922	3.5	10
117	Integration of banana crop residues as biomass feedstock into conventional production of first-generation fuel ethanol from sugarcane: a simulation-based case study. <i>Biofuels, Bioproducts and Biorefining</i> , 2021 , 15, 671-689	5.3	2
116	Techno-economic and energetic assessment of an innovative pilot-scale thermosyphon-assisted falling film distillation unit for sanitizer-grade ethanol recovery. <i>Applied Energy</i> , 2021 , 297, 117185	10.7	3

115	Chitosan as a matrix of nanocomposites: A review on nanostructures, processes, properties, and applications. <i>Carbohydrate Polymers</i> , 2021 , 272, 118472	10.3	16
114	A comprehensive investigation of waste expanded polystyrene recycling by dissolution technique combined with nanoprecipitation. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021 , 16, 100470	3.3	1
113	Low temperature formation of cobalt in silicon nitride toward functional nitride nanocomposites. <i>Chemical Communications</i> , 2021 , 57, 2057-2060	5.8	2
112	Dispersion Polymerization of Methyl Methacrylate in Supercritical CO ₂ : A Preliminary Evaluation of In Situ Incorporation of Copaiba Oil. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 9398-9407	3.9	1
111	Optimization of Pressure-Swing Distillation for iC ₅ -Methanol Azeotropic Mixture Purification. <i>Process Integration and Optimization for Sustainability</i> , 2020 , 4, 255-263	2	3
110	Demonstrating the Suitability of Tamarind Residues to Bioenergy Exploitation Via Combustion Through Physicochemical Properties, Performance Indexes, and Emission Characteristics. <i>Bioenergy Research</i> , 2020 , 13, 1308-1320	3.1	14
109	Kinetic Study of the Thermal Decomposition of Cellulose Nanocrystals with Different Crystal Structures and Morphologies. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13428-13439	3.9	6
108	Distributed Control Strategy with Smith Predictor in a Pilot-Scale Diabatic Distillation Unit. <i>Chemical Engineering and Technology</i> , 2020 , 43, 1884-1896	2	7
107	New distributed-action control strategy with simultaneous heating and cooling in trays of a pilot-scale diabatic distillation column. <i>Chemical Engineering Research and Design</i> , 2020 , 159, 424-438	5.5	6
106	Highly active, robust and reusable micro-/mesoporous TiN/Si ₃ N ₄ nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si ₃ N ₄ matrix in the performance of the catalyst system. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118975	21.8	12
105	Nonequilibrium Stage Based Modeling of a Falling Film Distillation Unit. <i>Theoretical Foundations of Chemical Engineering</i> , 2020 , 54, 1156-1172	0.9	2
104	Application of a new pilot-scale distillation system for monoethylene glycol recovery using an energy saving falling film distillation column. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 263-275	5.5	3
103	Enhancing Chlorine-Free Purification Routes of Rice Husk Biomass Waste to Obtain Cellulose Nanocrystals. <i>Waste and Biomass Valorization</i> , 2020 , 11, 6595-6611	3.2	12
102	Additive-free low temperature sintering of amorphous Si B C powders derived from boron-modified polycarbosilanes: Toward the design of SiC with tunable mechanical, electrical and thermal properties. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2604-2612	6	5
101	A closed-loop process design for recycling expanded polystyrene waste by dissolution and polymerization. <i>Polymer</i> , 2020 , 209, 122940	3.9	9
100	Pyrolysis of cocoa shell and its bioenergy potential: evaluating the kinetic triplet, thermodynamic parameters, and evolved gas analysis using TGA-FTIR. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	19
99	Thermo-kinetic investigation of the multi-step pyrolysis of smoked cigarette butts towards its energy recovery potential. <i>Biomass Conversion and Biorefinery</i> , 2020 , 1	2.3	9
98	In-Situ Synthesis and Characterization of Nanocomposites in the Si-Ti-N and Si-Ti-C Systems. <i>Molecules</i> , 2020 , 25,	4.8	3

97	Dynamic modeling with experimental validation and control of a two-phase closed thermosyphon as heat supplier of a novel pilot-scale falling film distillation unit. <i>Computers and Chemical Engineering</i> , 2020 , 143, 107078	4	4
96	Dye synthetic solution treatment by direct contact membrane distillation using commercial membranes. <i>Environmental Technology (United Kingdom)</i> , 2020 , 41, 2253-2265	2.6	12
95	Steady state evaluation with different operating times in the direct contact membrane distillation process applied to water recovery from dyeing wastewater. <i>Separation and Purification Technology</i> , 2020 , 230, 115892	8.3	14
94	Direct contact membrane distillation applied to wastewaters from different stages of the textile process. <i>Chemical Engineering Communications</i> , 2020 , 207, 1062-1073	2.2	5
93	Ethanol enrichment from an aqueous stream using an innovative multi-tube falling film distillation column equipped with a biphasic thermosiphon. <i>Chemical Engineering Research and Design</i> , 2020 , 139, 69-75	5.5	9
92	Insights into the bioenergy potential of jackfruit wastes considering their physicochemical properties, bioenergy indicators, combustion behaviors, and emission characteristics. <i>Renewable Energy</i> , 2020 , 155, 1328-1338	8.1	26
91	Thermal investigation of plastic solid waste pyrolysis via the deconvolution technique using the asymmetric double sigmoidal function: Determination of the kinetic triplet, thermodynamic parameters, thermal lifetime and pyrolytic oil composition for clean energy recovery. <i>Energy Conversion and Management</i> , 2019 , 200, 112031	10.6	48
90	Ceramic membranes applied to membrane distillation: A comprehensive review. <i>International Journal of Applied Ceramic Technology</i> , 2019 , 16, 2161-2172	2	15
89	Dissolution of adhesive resins present in plastic waste to recover polyolefin by sink-float separation processes. <i>Journal of Environmental Management</i> , 2019 , 243, 453-462	7.9	11
88	Valorization of royal palm tree agroindustrial waste by isolating cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019 , 218, 188-198	10.3	31
87	Tape casting of preceramic polymers toward advanced ceramics: A review. <i>International Journal of Ceramic Engineering & Science</i> , 2019 , 1, 21-41	2	18
86	Influence of dye class on the comparison of direct contact and vacuum membrane distillation applied to remediation of dyeing wastewater. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2019 , 54, 1337-1347	2.3	7
85	OPTIMIZATION OF PRESSURE-SWING DISTILLATION FOR ANHYDROUS ETHANOL PURIFICATION BY THE SIMULATED ANNEALING ALGORITHM. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 453-469	1.7	13
84	Nonlinear multivariable tracking control: application to an ethanol process. <i>International Journal of Automation and Control</i> , 2019 , 13, 440	1.8	2
83	ENERGY AND EXERGETIC EVALUATION OF THE MULTICOMPONENT SEPARATION OF PETROCHEMICAL NAPHTHA IN FALLING FILM DISTILLATION COLUMNS. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 1357-1365	1.7	9
82	Falling film distillation column with heat transfer by means of a vapor chamber [part I: isothermal operation. <i>Chemical Engineering Communications</i> , 2019 , 206, 994-1005	2.2	11
81	Direct Contact Membrane Distillation Applied to Colored Reactive or Disperse Dye Solutions. <i>Chemical Engineering and Technology</i> , 2019 , 42, 1045-1052	2	11
80	Nonlinear multivariable tracking control: application to an ethanol process. <i>International Journal of Automation and Control</i> , 2019 , 13, 440	1.8	1

79	Intensification of water reclamation from textile dyeing wastewater using thermal membrane technologies [Performance comparison of vacuum membrane distillation and thermopervaporation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 146, 107695	3.7	7
78	Falling film distillation column with heat transfer by means of a vapor chamber. Part II: operation with a temperature profile. <i>Chemical Engineering Communications</i> , 2019 , 206, 1006-1014	2.2	10
77	Viscosity monitoring study of the kinetics of aqueous-medium N-vinylpyrrolidone free-radical polymerization. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47261	2.9	1
76	Synthesis and characterization of cellulose acetate from royal palm tree agroindustrial waste. <i>Polymer Engineering and Science</i> , 2019 , 59, 891-898	2.3	7
75	Polystyrene recycling processes by dissolution in ethyl acetate. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46208	2.9	12
74	Fitting semi-empirical drying models using a tool based on wavelet neural networks: Modeling a maize drying process. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12633	2.4	3
73	Polymer-Derived Ceramics with engineered mesoporosity: From design to application in catalysis. <i>Surface and Coatings Technology</i> , 2018 , 350, 569-586	4.4	34
72	Influence of different textile fibers on characterization of dyeing wastewater and final effluent. <i>Environmental Monitoring and Assessment</i> , 2018 , 190, 693	3.1	11
71	Experimental evaluation of the separation of aromatic compounds using falling film distillation on a pilot scale. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018 , 130, 296-308	3.7	12
70	Influence of porous structures on O ₂ flux of BSCF asymmetric membranes. <i>Separation and Purification Technology</i> , 2017 , 175, 164-169	8.3	19
69	A novel PAN/silazane hybrid polymer for processing of carbon-based fibres with extraordinary oxidation resistance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 720-729	13	22
68	Molecular-Level Processing of Si-(B)-C Materials with Tailored Nano/Microstructures. <i>Chemistry - A European Journal</i> , 2017 , 23, 17103-17117	4.8	15
67	Chemical resistance of core-shell particles (PS/PMMA) polymerized by seeded suspension. <i>Polimeros</i> , 2017 , 27, 225-229	1.6	2
66	Direct contact membrane distillation for textile wastewater treatment: a state of the art review. <i>Water Science and Technology</i> , 2017 , 76, 2565-2579	2.2	49
65	Synthesis of fluorine-modified polysilazanes via Si-H bond activation and their application as protective hydrophobic coatings. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25509-25521	13	19
64	Experimental and CFD Study of a Vertically Stirred Tubular Reactor Designed for Suspension Polymerization Reactions. <i>Macromolecular Reaction Engineering</i> , 2017 , 11, 1600040	1.5	3
63	Performance of reverse osmosis and nanofiltration membranes in the fractionation and retention of patchouli essential oil. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 639-648	4.2	11
62	Application of hybrid organic/inorganic polymers as coatings on metallic substrates. <i>Materials Research Express</i> , 2016 , 3, 095301	1.7	9

61	Influence of stabilizer additives on thermochromic coating for temperature monitoring 2016 , 13, 1139-1144	2
60	Dynamic Study of Distillation Column Operated with Tray Heat Source Combined with Reboiler. <i>Chemical Engineering Communications</i> , 2016 , 203, 364-371	2.2 3
59	Dispersion polymerization of methyl methacrylate in supercritical carbon dioxide using vinyl terminated poly(dimethylsiloxane). <i>Chemical Engineering and Processing: Process Intensification</i> , 2016 , 103, 46-52	3.7 9
58	Supercritical fluid extraction of <i>Drimys angustifolia</i> Miers: Experimental data and identification of the dynamic behavior of extraction curves using neural networks based on wavelets. <i>Journal of Supercritical Fluids</i> , 2016 , 112, 81-88	4.2 3
57	PREDICTIVE CONTROL OF A BATCH POLYMERIZATION SYSTEM USING A FEEDFORWARD NEURAL NETWORK WITH ONLINE ADAPTATION BY GENETIC ALGORITHM. <i>Brazilian Journal of Chemical Engineering</i> , 2016 , 33, 177-190	1.7 1
56	Influence of process parameters and scalability of the semi-batch production of functionalized silver nanoparticles. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1472-1485	2.3 8
55	Characterization of the mucilage extracted from jaracatiçá (<i>Carica quercifolia</i> (A. St. Hil.) Hieron). <i>Carbohydrate Polymers</i> , 2015 , 131, 370-6	10.3 16
54	Fast and accurate numerical method for predicting gas chromatography retention time. <i>Journal of Chromatography A</i> , 2015 , 1406, 258-65	4.5 8
53	A novel organic-inorganic PMMA/polysilazane hybrid polymer for corrosion protection. <i>Progress in Organic Coatings</i> , 2015 , 89, 220-230	4.8 41
52	Robust estimation of thermodynamic parameters (ΔH , ΔS and ΔG_p) for prediction of retention time in gas chromatography - Part I (Theoretical). <i>Journal of Chromatography A</i> , 2015 , 1425, 249-57	4.5 4
51	Biodegradable Duo-functional Active Film: Antioxidant and Antimicrobial Actions for the Conservation of Beef. <i>Food and Bioprocess Technology</i> , 2015 , 8, 75-87	5.1 32
50	Robust estimation of thermodynamic parameters (ΔH , ΔS and ΔG_p) for prediction of retention time in gas chromatography - Part II (Application). <i>Journal of Chromatography A</i> , 2015 , 1425, 258-64	4.5 2
49	Adsorption of anthocyanins using clay/polyethylene nanocomposite particles. <i>Applied Clay Science</i> , 2014 , 87, 298-302	5.2 9
48	Synthesis and Characterization of Silver Nanoparticles Produced with a Bifunctional Stabilizing Agent. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3426-3434	3.9 23
47	Current developments of mixed conducting membranes on porous substrates. <i>Materials Research</i> , 2014 , 17, 242-249	1.5 11
46	SB-S Core-Shell Particles in Semicontinuous Seeded Emulsion Polymerization and their use as Impact Modifier. <i>Macromolecular Symposia</i> , 2014 , 344, 28-32	0.8 1
45	Distributed Heat Supply for Distillation Control to Reduce Feed Composition Disturbance Effects. <i>Chemical Engineering and Technology</i> , 2013 , 36, 2071-2079	2 5
44	Preparation of PMMA/hBN composite coatings for metal surface protection. <i>Materials Research</i> , 2013 , 16, 1366-1372	1.5 29

43	Supercritical fluid extraction of hernandulcin from Lippia dulcis Trev.. <i>Journal of Supercritical Fluids</i> , 2012 , 63, 161-168	4.2	18
42	Influence of Semi-Batch Operations on Morphological Properties of Polystyrene Made in Suspension Polymerization. <i>Procedia Engineering</i> , 2012 , 42, 1045-1052		5
41	Computational fluid dynamics simulation of the feed distribution system of a falling film distillation device. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 845-849	0.6	10
40	Effects of Operational Parameters on Particle Size Distributions in Methyl Methacrylate Suspension Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9116-9122	3.9	12
39	Glycerol desorption from ion exchange and adsorbent resin using supercritical fluid technology: An optimization study. <i>Journal of Supercritical Fluids</i> , 2011 , 58, 226-232	4.2	8
38	Swelling of organoclays in styrene. Effect on flammability in polystyrene nanocomposites. <i>EXPRESS Polymer Letters</i> , 2010 , 4, 500-508	3.4	10
37	Fluid-Dynamics Study of Multiphase Flow in a Sieve Tray of a Distillation Column. <i>Computer Aided Chemical Engineering</i> , 2010 , 28, 73-78	0.6	3
36	Modeling techniques and processes control application based on Neural Networks with on-line adjustment using Genetic Algorithms. <i>Brazilian Journal of Chemical Engineering</i> , 2009 , 26, 113-126	1.7	4
35	Influence of experimental conditions on the incorporation of water droplets in polystyrene. <i>Polimeros</i> , 2009 , 19, 292-296	1.6	1
34	Control Strategy with Distributed Action for Minimization of Transients in Distillation Column. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1527-1532	0.6	2
33	Educational simulator for multicomponent distillation research and teaching in chemical engineering. <i>Computer Applications in Engineering Education</i> , 2009 , 18, n/a-n/a	1.6	5
32	Foaming of poly(methyl methacrylate) particles. <i>Materials Science and Engineering C</i> , 2009 , 29, 479-484	8.3	8
31	Comparison of extraction of patchouli (Pogostemon cablin) essential oil with supercritical CO2 and by steam distillation. <i>Journal of Supercritical Fluids</i> , 2009 , 48, 15-20	4.2	100
30	Experimental Startup of a Distillation Column Using New Proposal of Distributed Heating for Reducing Transients. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1533-1538	0.6	
29	Synthesis of PS/PMMA CoreShell Structured Particles by Seeded Suspension Polymerization. <i>Macromolecules</i> , 2008 , 41, 6960-6964	5.5	44
28	Effect of Cooling Fluid Flow Rate on the Estimation of Conversion by Calorimetry in a Lab-Scale Reactor. <i>Macromolecular Symposia</i> , 2008 , 271, 38-47	0.8	7
27	Comparison of techniques for the determination of conversion during suspension polymerization reactions. <i>Brazilian Journal of Chemical Engineering</i> , 2008 , 25, 399-407	1.7	18
26	Egg hatchability prediction by multiple linear regression and artificial neural networks. <i>Brazilian Journal of Poultry Science</i> , 2008 , 10, 97-102	1.3	10

25	Simulação numérica aplicada para avaliar o efeito da pré-polimerização no comportamento de reatores tubulares. <i>Polimeros</i> , 2007 , 17, 250-257	1.6	
24	Distillation Tower with Distributed Control Strategy: Feed Temperature Loads. <i>Chemical Engineering and Technology</i> , 2007 , 30, 1292-1297	2	7
23	Effect of pre-treatments on drying, density and shrinkage of apple slices. <i>Journal of Food Engineering</i> , 2007 , 78, 1103-1110	6	39
22	Production of a Clay-Polymer Composite Aiming the Removal of Residual Sodium from Biodiesel. <i>Macromolecular Symposia</i> , 2006 , 245-246, 191-198	0.8	1
21	Effect of Foster Swelling Degree in Polystyrene/Clay Nanocomposites Obtained by In Situ Incorporation. <i>Macromolecular Symposia</i> , 2006 , 245-246, 337-342	0.8	4
20	Styrene Suspension Polymerization Using a Stirred Vertical Tubular Reactor. <i>Macromolecular Symposia</i> , 2006 , 245-246, 398-402	0.8	2
19	Effect of Initiator on the Incorporation of Graphite into Polymer Matrix During Suspension Polymerization. <i>Macromolecular Symposia</i> , 2005 , 229, 72-80	0.8	3
18	Separation of d-limonene from supercritical CO ₂ by means of membranes. <i>Journal of Supercritical Fluids</i> , 2005 , 34, 143-147	4.2	27
17	Adsorption of natural dyes on clay fixed on polymers. <i>Brazilian Archives of Biology and Technology</i> , 2005 , 48, 275-280	1.8	9
16	Use of reverse osmosis membranes for the separation of lemongrass essential oil and supercritical CO ₂ . <i>Brazilian Journal of Chemical Engineering</i> , 2004 , 21, 285-291	1.7	2
15	Continuous polymerization in tubular reactors with prepolymerization: Analysis using two-dimensional phenomenological model and hybrid model with neural networks. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 871-882	2.9	9
14	Performance of reverse osmosis membranes in the separation of supercritical CO ₂ and essential oils. <i>Journal of Membrane Science</i> , 2004 , 237, 71-76	9.6	36
13	Mathematical modeling of the membrane separation of nutmeg essential oil and dense CO ₂ . <i>Journal of Membrane Science</i> , 2004 , 237, 87-95	9.6	3
12	Online Monitoring of Suspension Polymerization Reactions Using Raman Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 7282-7289	3.9	36
11	Preparation and characterization of polyethersulfone membranes for use in supercritical medium. <i>Journal of Membrane Science</i> , 2002 , 205, 273-278	9.6	5
10	Separation of nutmeg essential oil and dense CO ₂ with a cellulose acetate reverse osmosis membrane. <i>Journal of Membrane Science</i> , 2001 , 188, 173-179	9.6	54
9	Extraction of lemongrass essential oil with dense carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2001 , 21, 33-39	4.2	66
8	Mathematical modeling of polystyrene particle size distribution produced by suspension polymerization. <i>Brazilian Journal of Chemical Engineering</i> , 2000 , 17, 395-407	1.7	23

7	Control of batch suspension polymerization reactor. <i>Chemical Engineering Journal</i> , 1998 , 70, 1-8	14.7	14
6	Temperature Control of Reactors Using Neural Networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 471-476		
5	Nanocomposites production of polystyrene/silver obtained by embedding silver nanoparticles in situ with styrene polymerization. <i>Brazilian Journal of Chemical Engineering</i> ,1	1.7	1
4	OTIMIZAÇÃO VIA ALGORITMO SIMULATED ANNEALING DA SEPARAÇÃO DA MISTURA DE COOL ISOBUTÍLICO-ACETATO DE ISOBUTILA ATRAVÉS DA DESTILAÇÃO POR OSCILAÇÃO DE PRESSÃO		1
3	Energy efficiency comparison between a conventional tray column and a novel heat-intensified thermosyphon-assisted falling film distillation unit: an assessment for mixtures with different relative volatilities. <i>Chemical Engineering Communications</i> ,1-12	2.2	1
2	Flexible and Porous Nonwoven SiCN Ceramic Material via Electrospinning of an Optimized Silazane Solution. <i>Advanced Engineering Materials</i> ,2100321	3.5	1
1	A review on the manufacturing techniques of porous hydrophobic ceramic membranes applied to direct contact membrane distillation. <i>Advances in Applied Ceramics</i> ,1-22	2.3	0