

# Cintia Marangoni

## List of Publications by Year in descending order

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92  
papers

1,603  
citations

331538

21  
h-index

377752

34  
g-index

98  
all docs

98  
docs citations

98  
times ranked

1346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermochemical characterization of banana leaves as a potential energy source. <i>Energy Conversion and Management</i> , 2013, 75, 603-608.	4.4	155
2	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.	4.4	82
3	Oxidative fast pyrolysis of banana leaves in fluidized bed reactor. <i>Renewable Energy</i> , 2016, 96, 56-64.	4.3	72
4	Direct contact membrane distillation for textile wastewater treatment: a state of the art review. <i>Water Science and Technology</i> , 2017, 76, 2565-2579.	1.2	60
5	Production of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) by <i>Ralstonia eutropha</i> in whey and inverted sugar with propionic acid feeding. <i>Process Biochemistry</i> , 2002, 38, 137-141.	1.8	59
6	Pervaporation of ethanol produced from banana waste. <i>Waste Management</i> , 2014, 34, 1501-1509.	3.7	56
7	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.	1.6	55
8	Prospecting pecan nutshell pyrolysis as a source of bioenergy and bio-based chemicals using multicomponent kinetic modeling, thermodynamic parameters estimation, and Py-GC/MS analysis. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 153, 111753.	8.2	54
9	Valorization of royal palm tree agroindustrial waste by isolating cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019, 218, 188-198.	5.1	52
10	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.	4.3	45
11	Enhancing Chlorine-Free Purification Routes of Rice Husk Biomass Waste to Obtain Cellulose Nanocrystals. <i>Waste and Biomass Valorization</i> , 2020, 11, 6595-6611.	1.8	37
12	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> , 2022, 12, 723-739.	2.9	33
13	Ceramic membranes applied to membrane distillation: A comprehensive review. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2161-2172.	1.1	32
14	A background review on falling film distillation in wetted-wall columns: From fundamentals towards intensified technologies. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 150, 107873.	1.8	32
15	Polystyrene recycling processes by dissolution in ethyl acetate. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46208.	1.3	28
16	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 1635-1638.	1.1	27
17	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.	4.3	27
18	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.	2.2	26

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19	Characterization and production of banana crop and rice processing waste briquettes. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1266-1273.	1.3	24
20	Synthesis and characterization of cellulose acetate from royal palm tree agroindustrial waste. <i>Polymer Engineering and Science</i> , 2019, 59, 891-898.	1.5	24
21	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.	4.3	24
22	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.	3.9	23
23	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.	0.7	19
24	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.	2.7	18
25	Upgrading of banana leaf waste to produce solid biofuel by torrefaction: physicochemical properties, combustion behaviors, and potential emissions. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25733-25747.	2.7	18
26	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.	1.8	17
27	Direct Contact Membrane Distillation Applied to Colored Reactive or Disperse Dye Solutions. <i>Chemical Engineering and Technology</i> , 2019, 42, 1045-1052.	0.9	16
28	Dye synthetic solution treatment by direct contact membrane distillation using commercial membranes. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2253-2265.	1.2	16
29	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.	1.2	16
30	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.	1.5	15
31	Machine learning modeling and genetic algorithm-based optimization of a novel pilot-scale thermosiphon-assisted falling film distillation unit. <i>Separation and Purification Technology</i> , 2021, 259, 118122.	3.9	15
32	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.	1.5	15
33	Thermo-kinetic investigation of the multi-step pyrolysis of smoked cigarette butts towards its energy recovery potential. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 741-755.	2.9	14
34	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.	2.7	14
35	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.	0.7	14
36	Application of a new startup procedure using distributed heating along distillation column. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1487-1494.	1.8	13

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37	Influence of different textile fibers on characterization of dyeing wastewater and final effluent. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 693.	1.3	13
38	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.	2.7	13
39	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.	1.6	13
40	Ethanol from residual biomass of banana harvest and commercialization: A three-waste simultaneous fermentation approach and a logistic-economic assessment of the process scaling-up towards a sustainable biorefinery in Brazil. <i>Industrial Crops and Products</i> , 2021, 174, 114170.	2.5	13
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.	0.3	12
42	Distillation Tower with Distributed Control Strategy: Feed Temperature Loads. <i>Chemical Engineering and Technology</i> , 2007, 30, 1292-1297.	0.9	11
43	Effect of Operating Variables on the Pervaporation of Ethanol Produced by Lignocellulosic Residue. <i>Procedia Engineering</i> , 2012, 42, 512-520.	1.2	11
44	The Influence of Different Strategies for the Saccharification of the Banana Plant Pseudostem and the Detoxification of Concentrated Broth on Bioethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 943-965.	1.4	11
45	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.	1.8	11
46	The influence of substrate source on the growth of <i>Ralstonia eutropha</i> , aiming at the production of polyhydroxyalkanoate. <i>Brazilian Journal of Chemical Engineering</i> , 2001, 18, 175-180.	0.7	11
47	Membrane distillation for the recovery textile wastewater: Influence of dye concentration. <i>Journal of Water Process Engineering</i> , 2022, 46, 102611.	2.6	11
48	Educational simulator for multicomponent distillation research and teaching in chemical engineering. <i>Computer Applications in Engineering Education</i> , 2010, 18, 175-182.	2.2	10
49	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.	2.6	10
50	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.	1.2	10
51	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.	0.9	9
52	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.	2.7	9
53	Distributed Control Strategy with Smith's Predictor in a Pilot-Scale Diabatic Distillation Unit. <i>Chemical Engineering and Technology</i> , 2020, 43, 1884-1896.	0.9	9
54	Analysis of the Reflux Ratio on the Batch Distillation of Bioethanol Obtained from Lignocellulosic Residue. <i>Procedia Engineering</i> , 2012, 42, 131-139.	1.2	8

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55	Distributed Heat Supply for Distillation Control to Reduce Feed Composition Disturbance Effects. <i>Chemical Engineering and Technology</i> , 2013, 36, 2071-2079.	0.9	8
56	Direct contact membrane distillation applied to wastewaters from different stages of the textile process. <i>Chemical Engineering Communications</i> , 2020, 207, 1062-1073.	1.5	8
57	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.	2.0	8
58	Phosphate feeding strategy during production phase improves poly(3-hydroxybutyrate-co-3-hydroxyvalerate) storage by <i>Ralstonia eutropha</i> . <i>Applied Microbiology and Biotechnology</i> , 2003, 61, 257-260.	1.7	6
59	Dynamic Study of Distillation Column Operated with Tray Heat Source Combined with Reboiler. <i>Chemical Engineering Communications</i> , 2016, 203, 364-371.	1.5	6
60	Effect of the microfiltration phase on pervaporation of ethanol produced from banana residues. <i>Computer Aided Chemical Engineering</i> , 2012, , 820-824.	0.3	5
61	Study of Drying of Banana Pseudo-stem and Influence of Particle Sizes on Biomass Saccharification and Cellulosic Ethanol Production. <i>Bioenergy Research</i> , 2019, 12, 605-625.	2.2	5
62	Effects of by-products of fermentation of banana pseudostem on ethanol separation by pervaporation. <i>Biotechnology Progress</i> , 2019, 35, e2830.	1.3	5
63	Influence of Neutralizing Agents on the Recovery of Ethanol from Banana Pseudostem Broth by Pervaporation. <i>Waste and Biomass Valorization</i> , 2020, 11, 4269-4277.	1.8	5
64	Optimization of Pressure-Swing Distillation for iC5-Methanol Azeotropic Mixture Purification. <i>Process Integration and Optimization for Sustainability</i> , 2020, 4, 255-263.	1.4	5
65	A review on the manufacturing techniques of porous hydrophobic ceramic membranes applied to direct contact membrane distillation. <i>Advances in Applied Ceramics</i> , 2021, 120, 336-357.	0.6	5
66	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.	5.1	5
67	Effect of compacting conditions on the viscoelastic properties of banana leaf waste and briquette quality. <i>Environmental Science and Pollution Research</i> , 2022, 29, 25970-25979.	2.7	5
68	Control Strategy with Distributed Action for Minimization of Transients in Distillation Column. <i>Computer Aided Chemical Engineering</i> , 2009, 27, 1527-1532.	0.3	4
69	Reducción del Tiempo de Ciclo de Inyección de Termoplásticos con el uso de Moldes con Tratamiento Superficial por Nitruración. <i>Informacion Tecnologica (discontinued)</i> , 2012, 23, 51-58.	0.1	4
70	Influence of the Location of the Internal Temperature Control Loop on the Performance of the Dual Temperature Control for Feed Temperature Disturbance. <i>Chemical and Biochemical Engineering Quarterly</i> , 2017, 30, 411-418.	0.5	4
71	Influence of multi-component composition of dyeing bath in the membrane distillation performance. <i>Chemical Engineering Research and Design</i> , 2021, 156, 184-195.	2.7	4
72	Fluid-Dynamics Study of Multiphase Flow in a Sieve Tray of a Distillation Column. <i>Computer Aided Chemical Engineering</i> , 2010, 28, 73-78.	0.3	3

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73	Waste management system in the clothing industry in Santa Catarina State Brazil. Management of Environmental Quality, 2018, 29, 594-607.	2.2	3
74	Evaluation of Second-Generation Ethanol Production from Mixtures of Banana Pseudostem, Peel and Rejected Fruit Using Aspen Hysys Simulation. Industrial Biotechnology, 2019, 15, 268-278.	0.5	3
75	Energy conditions assessment of a two-phase annular thermosyphon used as heat supplier for a new pilot-scale falling film distillation unit. Thermal Science and Engineering Progress, 2020, 19, 100648.	1.3	3
76	Nonequilibrium Stage Based Modeling of a Falling Film Distillation Unit. Theoretical Foundations of Chemical Engineering, 2020, 54, 1156-1172.	0.2	3
77	Multivariable control with adjustment by decoupling using a distributed action approach in a distillation column. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 857-862.	0.4	2
78	Chemical resistance of core-shell particles (PS/PMMA) polymerized by seeded suspension. Polimeros, 2017, 27, 225-229.	0.2	2
79	Integration of banana crop residues as biomass feedstock into conventional production of first-generation fuel ethanol from sugarcane: a simulation-based case study. Biofuels, Bioproducts and Biorefining, 2021, 15, 671-689.	1.9	2
80	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. Chemical Engineering Communications, 0, , 1-12.	1.5	2
81	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. Chemical Engineering and Processing: Process Intensification, 2022, 176, 108970.	1.8	2
82	Improvement of membrane hydrophobicity by one-step electrospraying for water recovery from textile dye solutions by membrane distillation. Chemical Engineering Research and Design, 2022, 165, 357-373.	2.7	2
83	Reduction of dross in galvanized sheets through automatic control of snout positioning in continuous operation. International Journal of Advanced Manufacturing Technology, 2017, 89, 2345-2353.	1.5	1
84	Development and scale-up of thermoplastic poly(ether-ester) glycol polyurethanes for flexography. Journal of Applied Polymer Science, 2021, 138, 51273.	1.3	1
85	OBTENÇÃO DE DIFERENTES MOSTOS DE CASCAS DE BANANA E SUA INFLUÊNCIA SOBRE A PRODUÇÃO DE ETANOL. , 0, , .		1
86	Membrane distillation for recovery of textile wastewaters: Determination of operational conditions with PTFE membrane and high dye concentrations. AIP Conference Proceedings, 2020, , .	0.3	1
87	Experimental Startup of a Distillation Column Using New Proposal of Distributed Heating for Reducing Transients. Computer Aided Chemical Engineering, 2009, 27, 1533-1538.	0.3	0
88	Dynamics of a distillation column with distributed and conventional approach using multivariable control with adjustment based on multiple errors. , 2011, , .		0
89	Smart polymeric materials applied to industry 4.0: A review on electrochromic textiles. AIP Conference Proceedings, 2020, , .	0.3	0
90	CARACTERIZAÇÃO DA FASE LÍQUIDA DE FERMENTADO ALCOÓLICO DE REJEITO DE BANANA APÓS DIFERENTES TÉCNICAS DE SEPARAÇÃO SÓLIDO-LÍQUIDO. , 0, , .		0

#	ARTICLE	IF	CITATIONS
91	REDUÇÃO DO TEMPO DE TRANSIÇÃO DE UMA UNIDADE DE DESTILAÇÃO OPERANDO COM AÇÃO DE CONTROLE DISTRIBUÍDA ENTRE ESTÁGIOS DO ESGOTAMENTO E DA RETIFICAÇÃO. , 0, , .		0
92	Preparation and characterization of polysulfone-polyurethane membranes for recovery of simulated wastewater from industrial textile processes. Environmental Technology (United Kingdom), 2020, , 1-14.	1.2	0