

Cintia Marangoni

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

1,603
citations

331259

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377514

34
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98
docs citations

98
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	Potential of macauba endocarp (<i>Acrocomia aculeate</i>) for bioenergy production: Multi-component kinetic study and estimation of thermodynamic parameters of activation. <i>Thermochemica Acta</i> , 2022, 708, 179134.	1.2	10
7	Membrane distillation for the recovery textile wastewater: Influence of dye concentration. <i>Journal of Water Process Engineering</i> , 2022, 46, 102611.	2.6	11
8	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
9	Evaluating the bioenergy potential of cupuassu shell through pyrolysis kinetics, thermodynamic parameters of activation, and evolved gas analysis with TG/FTIR technique. <i>Thermochemica Acta</i> , 2022, 711, 179187.	1.2	16
10	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
11	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.	1.8	2
12	Improvement of membrane hydrophobicity by one-step electrospinning for water recovery from textile dye solutions by membrane distillation. <i>Chemical Engineering Research and Design</i> , 2022, 165, 357-373.	2.7	2
13	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
14	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.	3.9	15
15	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
16	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.	1.9	2
17	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
18	Development and scale-up of thermoplastic poly(ether-ester) glycol polyurethanes for flexography. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51273.	1.3	1

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	Energy conditions assessment of a two-phase annular thermosyphon used as heat supplier for a new pilot-scale falling film distillation unit. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100648.	1.3	3
31	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
32	Smart polymeric materials applied to industry 4.0: A review on electrochromic textiles. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	0
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	Nonequilibrium Stage Based Modeling of a Falling Film Distillation Unit. <i>Theoretical Foundations of Chemical Engineering</i> , 2020, 54, 1156-1172.	0.2	3
41	Preparation and characterization of polysulfone-polyurethane membranes for recovery of simulated wastewater from industrial textile processes. <i>Environmental Technology (United Kingdom)</i> , 2020, , 1-14.	1.2	0
42	Membrane distillation for recovery of textile wastewaters: Determination of operational conditions with PTFE membrane and high dye concentrations. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
43	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
44	Evaluation of Second-Generation Ethanol Production from Mixtures of Banana Pseudostem, Peel and Rejected Fruit Using Aspen Hysys Simulation. <i>Industrial Biotechnology</i> , 2019, 15, 268-278.	0.5	3
45	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
46	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
47	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
48	Ceramic membranes applied to membrane distillation: A comprehensive review. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2161-2172.	1.1	32
49	Effects of by-products of fermentation of banana pseudostem on ethanol separation by pervaporation. <i>Biotechnology Progress</i> , 2019, 35, e2830.	1.3	5
50	Valorization of royal palm tree agroindustrial waste by isolating cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019, 218, 188-198.	5.1	52
51	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
52	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
53	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
54	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

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55	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
56	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
57	Polystyrene recycling processes by dissolution in ethyl acetate. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46208.	1.3	28
58	Waste management system in the clothing industry in Santa Catarina State Brazil. <i>Management of Environmental Quality</i> , 2018, 29, 594-607.	2.2	3
59	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
60	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
61	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
62	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
63	Reduction of dross in galvanized sheets through automatic control of snout positioning in continuous operation. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 2345-2353.	1.5	1
64	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
65	Chemical resistance of core-shell particles (PS/PMMA) polymerized by seeded suspension. <i>Polimeros</i> , 2017, 27, 225-229.	0.2	2
66	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
67	Oxidative fast pyrolysis of banana leaves in fluidized bed reactor. <i>Renewable Energy</i> , 2016, 96, 56-64.	4.3	72
68	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
69	Pervaporation of ethanol produced from banana waste. <i>Waste Management</i> , 2014, 34, 1501-1509.	3.7	56
70	Thermochemical characterization of banana leaves as a potential energy source. <i>Energy Conversion and Management</i> , 2013, 75, 603-608.	4.4	155
71	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
72	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

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73	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
74	Effect of Operating Variables on the Pervaporation of Ethanol Produced by Lignocellulosic Residue. <i>Procedia Engineering</i> , 2012, 42, 512-520.	1.2	11
75	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
76	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
77	Dynamics of a distillation column with distributed and conventional approach using multivariable control with adjustment based on multiple errors. , 2011, , .		0
78	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
79	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
80	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
81	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
82	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.	0.3	0
83	Multivariable control with adjustment by decoupling using a distributed action approach in a distillation column. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 857-862.	0.4	2
84	Distillation Tower with Distributed Control Strategy: Feed Temperature Loads. <i>Chemical Engineering and Technology</i> , 2007, 30, 1292-1297.	0.9	11
85	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
86	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
87	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
88	Title is missing!. <i>Biotechnology Letters</i> , 2000, 22, 1635-1638.	1.1	27
89	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> , 0, , 1-12.	1.5	2
90	CARACTERIZAÇÃO DA FASE LÍQUIDA DE FERMENTADO ALCOÓLICO DE REJEITO DE BANANA APÓS DIFERENTES TÉCNICAS DE SEPARAÇÃO SÓLIDO-LÍQUIDO. , 0, , .		0

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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	OBTENÇÃO DE DIFERENTES MOSTOS DE CASCAS DE BANANA E SUA INFLUÊNCIA SOBRE A PRODUÇÃO DE ETANOL. , 0, , .		1