

Rodrigo Battisti

List of Publications by Year in descending order

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papers

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840585

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docs citations

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448
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and Purification of a Flame-Retardant Polyphenylphosphonate Containing 4,4'-Dihydroxybenzophenone. <i>Chemistry and Chemical Technology</i> , 2022, 16, 95-102.	0.2	0
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
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	Nonequilibrium Stage Based Modeling of a Falling Film Distillation Unit. <i>Theoretical Foundations of Chemical Engineering</i> , 2020, 54, 1156-1172.	0.2	3
16	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
17	Valorization of royal palm tree agroindustrial waste by isolating cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2019, 218, 188-198.	5.1	52
18	Influence of clarifying agent on the properties of polypropylene copolymer industrially injected cups for Brazilian cream cheese. <i>International Journal of Plastics Technology</i> , 2019, 23, 170-176.	2.9	3

#	ARTICLE	IF	CITATIONS
19	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
20	STUDENTS BUILDING DIDACTIC EXPERIMENTS AS A TOOL FOR TEACHING UNIT OPERATIONS AND PROCESS CONTROL FOR CHEMISTRY TECHNICIANS. <i>Quimica Nova</i> , 2019, , .	0.3	1
21	Gelatin-coated paper with antimicrobial and antioxidant effect for beef packaging. <i>Food Packaging and Shelf Life</i> , 2017, 11, 115-124.	3.3	72
22	Decolorization and degradation of Indigo Carmine dye from aqueous solution catalyzed by horseradish peroxidase. <i>Biocatalysis and Biotransformation</i> , 2014, 32, 64-73.	1.1	22
23	Kinetic of the degradation of C.I. Food Yellow 3 and C.I. Food Yellow 4 azo dyes by the oxidation with hydrogen peroxide. <i>Journal of Molecular Catalysis A</i> , 2009, 301, 93-97.	4.8	39
24	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