

Rodrigo Battisti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6110619/publications.pdf>

Version: 2024-02-01

24
papers

394
citations

840119

11
h-index

794141

19
g-index

24
all docs

24
docs citations

24
times ranked

448
citing authors

#	ARTICLE	IF	CITATIONS
1	Gelatin-coated paper with antimicrobial and antioxidant effect for beef packaging. Food Packaging and Shelf Life, 2017, 11, 115-124.	3.3	72
2	Valorization of royal palm tree agroindustrial waste by isolating cellulose nanocrystals. Carbohydrate Polymers, 2019, 218, 188-198.	5.1	52
3	Kinetic of the degradation of C.I. Food Yellow 3 and C.I. Food Yellow 4 azo dyes by the oxidation with hydrogen peroxide. Journal of Molecular Catalysis A, 2009, 301, 93-97.	4.8	39
4	Enhancing Chlorine-Free Purification Routes of Rice Husk Biomass Waste to Obtain Cellulose Nanocrystals. Waste and Biomass Valorization, 2020, 11, 6595-6611.	1.8	37
5	A background review on falling film distillation in wetted-wall columns: From fundamentals towards intensified technologies. Chemical Engineering and Processing: Process Intensification, 2020, 150, 107873.	1.8	32
6	Synthesis and characterization of cellulose acetate from royal palm tree agroindustrial waste. Polymer Engineering and Science, 2019, 59, 891-898.	1.5	24
7	Decolorization and degradation of Indigo Carmine dye from aqueous solution catalyzed by horseradish peroxidase. Biocatalysis and Biotransformation, 2014, 32, 64-73.	1.1	22
8	OPTIMIZATION OF PRESSURE-SWING DISTILLATION FOR ANHYDROUS ETHANOL PURIFICATION BY THE SIMULATED ANNEALING ALGORITHM. Brazilian Journal of Chemical Engineering, 2019, 36, 453-469.	0.7	19
9	Machine learning modeling and genetic algorithm-based optimization of a novel pilot-scale thermosyphon-assisted falling film distillation unit. Separation and Purification Technology, 2021, 259, 118122.	3.9	15
10	New distributed-action control strategy with simultaneous heating and cooling in trays of a pilot-scale diabatic distillation column. Chemical Engineering Research and Design, 2020, 159, 424-438.	2.7	13
11	Modeling and experimental validation of direct contact membrane distillation applied to synthetic dye solutions. Journal of Chemical Technology and Biotechnology, 2021, 96, 909-922.	1.6	13
12	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. Industrial Crops and Products, 2021, 174, 114170.	2.5	13
13	Distributed Control Strategy with Smith's Predictor in a Pilot-scale Diabatic Distillation Unit. Chemical Engineering and Technology, 2020, 43, 1884-1896.	0.9	9
14	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. Computers and Chemical Engineering, 2020, 143, 107078.	2.0	8
15	Optimization of Pressure-Swing Distillation for iC5-Methanol Azeotropic Mixture Purification. Process Integration and Optimization for Sustainability, 2020, 4, 255-263.	1.4	5
16	Techno-economic and energetic assessment of an innovative pilot-scale thermosyphon-assisted falling film distillation unit for sanitizer-grade ethanol recovery. Applied Energy, 2021, 297, 117185.	5.1	5
17	Influence of clarifying agent on the properties of polypropylene copolymer industrially injected cups for Brazilian cream cheese. International Journal of Plastics Technology, 2019, 23, 170-176.	2.9	3
18	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

#	ARTICLE	IF	CITATIONS
19	Nonequilibrium Stage Based Modeling of a Falling Film Distillation Unit. Theoretical Foundations of Chemical Engineering, 2020, 54, 1156-1172.	0.2	3
20	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
21	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
22	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
23	STUDENTS BUILDING DIDACTIC EXPERIMENTS AS A TOOL FOR TEACHING UNIT OPERATIONS AND PROCESS CONTROL FOR CHEMISTRY TECHNICIANS. Quimica Nova, 2019, , .	0.3	1
24	Preparation and Purification of a Flame-Retardant Polyphenylphosphonate Containing 4,4'-Dihydroxybenzophenone. Chemistry and Chemical Technology, 2022, 16, 95-102.	0.2	0