

Harrison Silva Santana

List of Publications by Year in descending order

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38
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38
docs citations

38
times ranked

396
citing authors

#	ARTICLE	IF	CITATIONS
1	Residence time distribution in reactive and non-reactive flow systems in micro and millidevices. Chemical Engineering Science, 2022, 248, 117163.	1.9	9
2	Methyl Oleate Synthesis by TiO ₂ Photocatalytic Esterification of Oleic Acid: Optimisation by Response Surface Quadratic Methodology, Reaction Kinetics and Thermodynamics. ChemPhotoChem, 2022, 6, .	1.5	9
3	Intensification of biodiesel production through computational fluid dynamics. , 2022, , 231-271.		1
4	Design, optimization and scale-up of a new micromixer design based on plate column for organic synthesis. Chemical Engineering Journal, 2022, 446, 137159.	6.6	11
5	The Water Pathway and Microfluidics: A Potential Solution to the Global Water Crisis. IOP Conference Series: Earth and Environmental Science, 2021, 690, 012045.	0.2	0
6	Continuous synthesis of 4-(2-fluoro-4-nitrophenyl)morpholine in microreactors: Optimization of process conditions and scale-up to millidevices. Chemical Engineering and Processing: Process Intensification, 2021, 161, 108316.	1.8	5
7	Development of a New Micromixer for Fluid Mixing and Organic Reactions in Millidevices. Industrial & Engineering Chemistry Research, 2021, 60, 9216-9230.	1.8	15
8	3D printed millireactors for process intensification. Chinese Journal of Chemical Engineering, 2020, 28, 180-190.	1.7	10
9	Microfluidic Devices and 3D Printing for Synthesis and Screening of Drugs and Tissue Engineering. Industrial & Engineering Chemistry Research, 2020, 59, 3794-3810.	1.8	21
10	Computational methodology for the development of microdevices and microreactors with ANSYS CFX. MethodsX, 2020, 7, 100765.	0.7	18
11	Modeling and simulation using OpenFOAM of biodiesel synthesis in structured microreactor. International Journal of Multiphase Flow, 2020, 132, 103435.	1.6	10
12	How chemical engineers can contribute to fight the COVID-19. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 67-80.	2.7	4
13	Review on microfluidic device applications for fluids separation and water treatment processes. SN Applied Sciences, 2020, 2, 1.	1.5	25
14	Design and Analysis of New Micromixers Based on Distillation Column Trays. Chemical Engineering and Technology, 2020, 43, 1249-1259.	0.9	8
15	Flow uniformity data on 3D printed flow distributors. Data in Brief, 2019, 23, 103799.	0.5	3
16	3D printed micro-chemical plant for biodiesel synthesis in millireactors. Energy Conversion and Management, 2019, 184, 475-487.	4.4	20
17	Optimization of micromixer with triangular baffles for chemical process in millidevices. Sensors and Actuators B: Chemical, 2019, 281, 191-203.	4.0	42
18	Development of microreactors applied on biodiesel synthesis: From experimental investigation to numerical approaches. Journal of Industrial and Engineering Chemistry, 2019, 69, 1-12.	2.9	25

#	ARTICLE	IF	CITATIONS
19	Experimental and Numerical Analyses of a Micro-Heat Exchanger for Ethanol Excess Recovery From Biodiesel. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2019, , 167-194.	0.2	1
20	Simulações numéricas da síntese de biodiesel em milireatores com obstruções circulares. <i>Revista Dos Trabalhos De Iniciação Científica Da UNICAMP</i> , 2019, , .	0.0	0
21	Simulações numéricas de novos micromisturadores para micro- e milirreatores. <i>Revista Dos Trabalhos De Iniciação Científica Da UNICAMP</i> , 2019, , .	0.0	0
22	Modeling and simulation of microreactor with static and perforated elements for biodiesel synthesis. <i>Revista Dos Trabalhos De Iniciação Científica Da UNICAMP</i> , 2019, , .	0.0	0
23	Transesterification of sunflower oil in microchannels with circular obstructions. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 852-863.	1.7	38
24	Application of Microfluidics in Process Intensification. <i>International Journal of Chemical Reactor Engineering</i> , 2018, 16, .	0.6	4
25	CFD analysis of flow distributor designs for numbering-up of biodiesel synthesis. <i>Chemical Engineering Research and Design</i> , 2018, 138, 458-471.	2.7	9
26	Biodiesel synthesis in micromixer with static elements. <i>Energy Conversion and Management</i> , 2017, 141, 28-39.	4.4	77
27	Evaporation of excess alcohol in biodiesel in a microchannel heat exchanger with Peltier module. <i>Chemical Engineering Research and Design</i> , 2017, 124, 20-28.	2.7	12
28	Transesterification reaction of sunflower oil and ethanol for biodiesel synthesis in microchannel reactor: Experimental and simulation studies. <i>Chemical Engineering Journal</i> , 2016, 302, 752-762.	6.6	75
29	Numerical simulation of mixing and reaction of <i>Jatropha curcas</i> oil and ethanol for synthesis of biodiesel in micromixers. <i>Chemical Engineering Science</i> , 2015, 132, 159-168.	1.9	37
30	Numerical simulations of biodiesel synthesis in microchannels with circular obstructions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 98, 137-146.	1.8	38
31	3D printed millireactor with yeast immobilized in calcium alginate film for application in fermentation processes. <i>AIChE Journal</i> , 0, , e17460.	1.8	1
32	Evaluation of flow distributor geometry in flow uniformity. , 0, , .		1
33	Aplicação de microreatores na síntese de biodiesel através da transesterificação do óleo de farelo de arroz. , 0, , .		0