

Harrison Silva Santana

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

536
citations

758635

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642321

23
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38
all docs

38
docs citations

38
times ranked

396
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel synthesis in micromixer with static elements. <i>Energy Conversion and Management</i> , 2017, 141, 28-39.	4.4	77
2	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
3	Optimization of micromixer with triangular baffles for chemical process in millidevices. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 191-203.	4.0	42
4	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
5	Transesterification of sunflower oil in microchannels with circular obstructions. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 852-863.	1.7	38
6	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
7	Development of microreactors applied on biodiesel synthesis: From experimental investigation to numerical approaches. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 1-12.	2.9	25
8	Review on microfluidic device applications for fluids separation and water treatment processes. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	25
9	Microfluidic Devices and 3D Printing for Synthesis and Screening of Drugs and Tissue Engineering. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3794-3810.	1.8	21
10	3D printed micro-chemical plant for biodiesel synthesis in millireactors. <i>Energy Conversion and Management</i> , 2019, 184, 475-487.	4.4	20
11	Computational methodology for the development of microdevices and microreactors with ANSYS CFX. <i>MethodsX</i> , 2020, 7, 100765.	0.7	18
12	Development of a New Micromixer for Fluid Mixing and Organic Reactions in Millidevices. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9216-9230.	1.8	15
13	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
14	Design, optimization and scale-up of a new micromixer design based on plate column for organic synthesis. <i>Chemical Engineering Journal</i> , 2022, 446, 137159.	6.6	11
15	3D printed millireactors for process intensification. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 180-190.	1.7	10
16	Modeling and simulation using OpenFOAM of biodiesel synthesis in structured microreactor. <i>International Journal of Multiphase Flow</i> , 2020, 132, 103435.	1.6	10
17	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
18	Residence time distribution in reactive and non-reactive flow systems in micro and millidevices. <i>Chemical Engineering Science</i> , 2022, 248, 117163.	1.9	9

#	ARTICLE	IF	CITATIONS
19	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
20	Design and Analysis of New Micromixers Based on Distillation Column Trays. Chemical Engineering and Technology, 2020, 43, 1249-1259.	0.9	8
21	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
22	Application of Microfluidics in Process Intensification. International Journal of Chemical Reactor Engineering, 2018, 16, .	0.6	4
23	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
24	Flow uniformity data on 3D printed flow distributors. Data in Brief, 2019, 23, 103799.	0.5	3
25	3D printed millireactor with yeast immobilized in calcium alginate film for application in fermentation processes. AIChE Journal, 0, , e17460.	1.8	1
26	Evaluation of flow distributor geometry in flow uniformity. , 0, , .		1
27	Experimental and Numerical Analyses of a Micro-Heat Exchanger for Ethanol Excess Recovery From Biodiesel. Advances in Chemical and Materials Engineering Book Series, 2019, , 167-194.	0.2	1
28	Intensification of biodiesel production through computational fluid dynamics. , 2022, , 231-271.		1
29	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
30	Aplicação de microreatores na síntese de biodiesel através da transesterificação do óleo de farelo de arroz. , 0, , .		0
31	Simulações numéricas da síntese de biodiesel em milireatores com obstruções circulares. Revista Dos Trabalhos De Iniciação Científica Da UNICAMP, 2019, , .	0.0	0
32	Simulações numéricas de novos micromisturadores para micro- e milireatores. Revista Dos Trabalhos De Iniciação Científica Da UNICAMP, 2019, , .	0.0	0
33	Modeling and simulation of microreactor with static and perforated elements for biodiesel synthesis. Revista Dos Trabalhos De Iniciação Científica Da UNICAMP, 2019, , .	0.0	0