

Osvaldir P Taranto

List of Publications by Year in descending order

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25
papers

626
citations

567281

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all docs

25
docs citations

25
times ranked

521
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel synthesis in micromixer with static elements. <i>Energy Conversion and Management</i> , 2017, 141, 28-39.	9.2	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.	12.7	75
3	Monitoring and control of coating and granulation processes in fluidized beds – A review. <i>Advanced Powder Technology</i> , 2014, 25, 195-210.	4.1	64
4	Optimization of micromixer with triangular baffles for chemical process in millidevices. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 191-203.	7.8	42
5	Reduction of the process time in the achieve of rice bran protein through ultrasound-assisted extraction and microwave-assisted extraction. <i>Separation Science and Technology</i> , 2020, 55, 300-312.	2.5	40
6	Numerical simulations of biodiesel synthesis in microchannels with circular obstructions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 98, 137-146.	3.6	38
7	Transesterification of sunflower oil in microchannels with circular obstructions. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 852-863.	3.5	38
8	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.	3.8	37
9	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.	5.8	25
10	Microfluidic Devices and 3D Printing for Synthesis and Screening of Drugs and Tissue Engineering. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3794-3810.	3.7	21
11	Drying of a Porous Material in a Pulsed Fluid Bed Dryer: The Influences of Temperature, Frequency of Pulsation, and Air Flow Rate. <i>Drying Technology</i> , 2009, 27, 212-219.	3.1	20
12	Identification of defluidization in fluidized bed coating using the Gaussian spectral pressure distribution. <i>Powder Technology</i> , 2011, 206, 149-153.	4.2	20
13	Control of fluidized bed coating particles using Gaussian spectral pressure distribution. <i>Powder Technology</i> , 2011, 212, 445-458.	4.2	18
14	Computational methodology for the development of microdevices and microreactors with ANSYS CFX. <i>MethodsX</i> , 2020, 7, 100765.	1.6	18
15	Development of a New Micromixer – Elis – for Fluid Mixing and Organic Reactions in Millidevices. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 9216-9230.	3.7	15
16	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.	5.6	12
17	Agglomeration process of rice protein concentrate using glucomannan as binder: In-line monitoring of particle size. <i>Chemical Engineering Research and Design</i> , 2018, 135, 37-51.	5.6	11
18	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.	12.7	11

#	ARTICLE	IF	CITATIONS
19	3D printed millireactors for process intensification. Chinese Journal of Chemical Engineering, 2020, 28, 180-190.	3.5	10
20	Modeling and simulation using OpenFOAM of biodiesel synthesis in structured microreactor. International Journal of Multiphase Flow, 2020, 132, 103435.	3.4	10
21	Acacia gum fluidized bed agglomeration: Use of inulin as a binder and process parameters analysis. Journal of Food Process Engineering, 2020, 43, e13409.	2.9	8
22	Scale-up and Spouting of Two-Dimensional Beds. Canadian Journal of Chemical Engineering, 2003, 81, 264-267.	1.7	7
23	Application of Microfluidics in Process Intensification. International Journal of Chemical Reactor Engineering, 2018, 16, .	1.1	4
24	How chemical engineers can contribute to fight the COVID-19. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 67-80.	5.3	4
25	3D printed millireactor with yeast immobilized in calcium alginate film for application in fermentation processes. AIChE Journal, 0, , e17460.	3.6	1