Sanjay Nagarajan

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8463506/publications.pdf

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20	770	516561 16	752573 20
papers	citations	h-index	g-index

21	21	21	861
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An updated comprehensive techno-economic analysis of algae biodiesel. Bioresource Technology, 2013, 145, 150-156.	4.8	179
2	Comparative assessment of visible light and UV active photocatalysts by hydroxyl radical quantification. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 334, 13-19.	2.0	76
3	Cellulose II as bioethanol feedstock and its advantages over native cellulose. Renewable and Sustainable Energy Reviews, 2017, 77, 182-192.	8.2	72
4	Sugarcane bagasse based biorefineries in India: potential and challenges. Sustainable Energy and Fuels, 2021, 5, 52-78.	2.5	62
5	Treatment of Solvent-Contaminated Water Using Vortex-Based Cavitation: Influence of Operating Pressure Drop, Temperature, Aeration, and Reactor Scale. Industrial & Engineering Chemistry Research, 2018, 57, 9292-9304.	1.8	44
6	ANN based modelling of hydrodynamic cavitation processes: Biomass pre-treatment and wastewater treatment. Ultrasonics Sonochemistry, 2021, 72, 105428.	3.8	40
7	Anthropogenic impact on diazotrophic diversity in the mangrove rhizosphere revealed by nifH pyrosequencing. Frontiers in Microbiology, 2015, 6, 1172.	1.5	39
8	Scale-up of vortex based hydrodynamic cavitation devices: A case of degradation of di-chloro aniline in water. Ultrasonics Sonochemistry, 2021, 70, 105295.	3.8	36
9	Pretreatment of Lignocellulosic Biomass Using Vortex-Based Devices for Cavitation: Influence on Biomethane Potential. Industrial & Engineering Chemistry Research, 2019, 58, 15975-15988.	1.8	34
10	Quantification of hydroxyl radicals in photocatalysis and acoustic cavitation: Utility of coumarin as a chemical probe. Chemical Engineering Journal, 2021, 420, 127560.	6.6	32
11	Pre-treatment of distillery spent wash (vinasse) with vortex based cavitation and its influence on biogas generation. Bioresource Technology Reports, 2020, 11, 100480.	1.5	26
12	Process optimization for recycling of bread waste into bioethanol and biomethane: A circular economy approach. Energy Conversion and Management, 2022, 266, 115784.	4.4	26
13	Using cellulose polymorphs for enhanced hydrogen production from photocatalytic reforming. Sustainable Energy and Fuels, 2019, 3, 1971-1975.	2.5	20
14	Spatial Variations of the Methanogenic Communities in the Sediments of Tropical Mangroves. PLoS ONE, 2016, 11, e0161065.	1.1	19
15	Valorizing Waste Biomass via Hydrodynamic Cavitation and Anaerobic Digestion. Industrial & Engineering Chemistry Research, 2021, 60, 16577-16598.	1.8	18
16	High-Level fermentative production of Lactic acid from bread waste under Non-sterile conditions with a circular biorefining approach and zero waste discharge. Fuel, 2022, 313, 122976.	3.4	17
17	Intensification of Acidogenic Fermentation for the Production of Biohydrogen and Volatile Fatty Acidsâ€"A Perspective. Fermentation, 2022, 8, 325.	1.4	17
18	Mixing regime simulation and cellulose particle tracing in a stacked frame photocatalytic reactor. Chemical Engineering Journal, 2017, 313, 301-308.	6.6	8

#	Article	IF	Citations
19	A simplified model for simulating anaerobic digesters: Application to valorisation of bagasse and distillery spent wash. Bioresource Technology, 2021, 337, 125395.	4.8	4
20	Cellulose Photocatalysis for Renewable Energy Production. Environmental Chemistry for A Sustainable World, 2021, , 1-34.	0.3	1