

Jack Legrand

List of Publications by Year in descending order

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15
papers

492
citations

840585

11
h-index

996849

15
g-index

15
all docs

15
docs citations

15
times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic modeling of light limitation and sulfur deprivation effects in the induction of hydrogen production with <i>Chlamydomonas reinhardtii</i> : Part I. Model development and parameter identification. <i>Biotechnology and Bioengineering</i> , 2009, 102, 232-245.	1.7	71
2	Influence of light absorption rate by <i>Nannochloropsis oculata</i> on triglyceride production during nitrogen starvation. <i>Bioresource Technology</i> , 2014, 163, 308-319.	4.8	62
3	A model-based method for investigating bioenergetic processes in autotrophically growing eukaryotic microalgae: Application to the green algae <i>Chlamydomonas reinhardtii</i> . <i>Biotechnology Progress</i> , 2011, 27, 631-640.	1.3	52
4	Multivariable feedback linearizing control of <i>Chlamydomonas reinhardtii</i> photoautotrophic growth process in a torus photobioreactor. <i>Chemical Engineering Journal</i> , 2013, 218, 191-203.	6.6	46
5	Theoretical investigation of biomass productivities achievable in solar rectangular photobioreactors for the cyanobacterium <i>Arthrospira platensis</i> . <i>Biotechnology Progress</i> , 2012, 28, 699-714.	1.3	43
6	A review on photobioreactor design and modelling for microalgae production. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1134-1151.	1.9	42
7	Comparison of experimentally and theoretically determined radiation characteristics of photosynthetic microorganisms. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 175, 30-45.	1.1	38
8	Investigation and modeling of the effects of light spectrum and incident angle on the growth of <i>Chlorella vulgaris</i> in photobioreactors. <i>Biotechnology Progress</i> , 2016, 32, 247-261.	1.3	35
9	Transmittance of transparent windows with non-absorbing cap-shaped droplets condensed on their backside. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 194, 98-107.	1.1	26
10	Photobioreactor design for isotopic non-stationary ¹³ C-metabolic flux analysis (INST) Tj ETQq0 0 0 rgBT /Overlock 10 T 109, 3030-3040.	1.7	22
11	Stability analysis of inclined stratified two-phase gas-liquid flow. <i>Nuclear Engineering and Design</i> , 2010, 240, 1083-1096.	0.8	19
12	A Discussion on the Relation Between the Intermittent Flow Sub-Regimes and the Frictional Pressure Drop. <i>International Journal of Heat and Mass Transfer</i> , 2021, 181, 121895.	2.5	15
13	Experimental investigation of sudden expansion's influence on the hydrodynamic behavior of different sub-regimes of intermittent flow. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108834.	2.1	9
14	Onset of intermittent flow: Visualization of flow structures. <i>Oil and Gas Science and Technology</i> , 2021, 76, 27.	1.4	7
15	Impact of Dropwise Condensation on the Biomass Production Rate in Covered Raceway Ponds. <i>Energies</i> , 2021, 14, 268.	1.6	5