

# Jeremy Pruvost

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2156105/publications.pdf>

Version: 2024-02-01

52  
papers

2,171  
citations

159358

30  
h-index

223531

46  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1861  
citing authors

#	ARTICLE	IF	CITATIONS
1	A fully predictive model for one-dimensional light attenuation by <i>Chlamydomonas reinhardtii</i> in a torus photobioreactor. <i>Biotechnology and Bioengineering</i> , 2005, 91, 569-582.	1.7	197
2	Autotrophic and Mixotrophic Hydrogen Photoproduction in Sulfur-Deprived <i>Chlamydomonas</i> Cells. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6199-6205.	1.4	170
3	Hydrodynamics influence on light conversion in photobioreactors: An energetically consistent analysis. <i>Chemical Engineering Science</i> , 2008, 63, 3679-3694.	1.9	106
4	Experimental and theoretical assessment of maximum productivities for the microalgae <i>Chlamydomonas reinhardtii</i> in two different geometries of photobioreactors. <i>Biotechnology Progress</i> , 2010, 26, 431-440.	1.3	105
5	Kinetic modeling of the photosynthetic growth of <i>Chlamydomonas reinhardtii</i> in a photobioreactor. <i>Biotechnology Progress</i> , 2012, 28, 681-692.	1.3	84
6	A novel recovery process for lipids from microalgae for biodiesel production using a hydrated phosphonium ionic liquid. <i>Green Chemistry</i> , 2015, 17, 2813-2824.	4.6	81
7	Effect of organic carbon sources and Fe <sup>2+</sup> ions on growth and β-carotene accumulation by <i>Dunaliella salina</i> . <i>Biochemical Engineering Journal</i> , 2008, 39, 177-184.	1.8	78
8	A new photobioreactor for continuous microalgal production in hatcheries based on external airlift and swirling flow. <i>Biotechnology and Bioengineering</i> , 2009, 102, 132-147.	1.7	76
9	Design tool and guidelines for outdoor photobioreactors. <i>Chemical Engineering Science</i> , 2014, 106, 18-29.	1.9	76
10	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
11	Investigation of light/dark cycles effects on the photosynthetic growth of <i>Chlamydomonas reinhardtii</i> in conditions representative of photobioreactor cultivation. <i>Algal Research</i> , 2015, 8, 192-204.	2.4	63
12	Influence of hydrodynamics in tangential and dynamic ultrafiltration systems for microalgae separation. <i>Desalination</i> , 2011, 265, 279-283.	4.0	62
13	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
14	Wet lipid extraction from the microalga <i>Nannochloropsis</i> sp.: Disruption, physiological effects and solvent screening. <i>Algal Research</i> , 2017, 21, 27-34.	2.4	60
15	Investigation of H <sub>2</sub> production using the green microalga <i>Chlamydomonas reinhardtii</i> in a fully controlled photobioreactor fitted with on-line gas analysis. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 3302-3310.	3.8	59
16	Investigation of the combined effects of acetate and photobioreactor illuminated fraction in the induction of anoxia for hydrogen production by <i>Chlamydomonas reinhardtii</i> . <i>International Journal of Hydrogen Energy</i> , 2010, 35, 10741-10749.	3.8	53
17	High pressure disruption: a two-step treatment for selective extraction of intracellular components from the microalga <i>Porphyridium cruentum</i> . <i>Journal of Applied Phycology</i> , 2013, 25, 983-989.	1.5	47
18	Benefits and limitations of modeling for optimization of <i>Porphyridium cruentum</i> cultures in an annular photobioreactor. <i>Journal of Biotechnology</i> , 2003, 103, 153-163.	1.9	44

#	ARTICLE	IF	CITATIONS
19	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
20	Rheological properties of suspensions of the green microalga <i>Chlorella vulgaris</i> at various volume fractions. <i>Rheologica Acta</i> , 2013, 52, 589-605.	1.1	43
21	A review on photobioreactor design and modelling for microalgae production. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 1134-1151.	1.9	42
22	Bead milling disruption kinetics of microalgae: Process modeling, optimization and application to biomolecules recovery from <i>Chlorella sorokiniana</i> . <i>Bioresource Technology</i> , 2018, 267, 458-465.	4.8	40
23	Industrial Photobioreactors and Scale-Up Concepts. <i>Advances in Chemical Engineering</i> , 2016, , 257-310.	0.5	38
24	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
25	Investigations in an external-loop airlift photobioreactor with annular light chambers and swirling flow. <i>Chemical Engineering Research and Design</i> , 2011, 89, 164-171.	2.7	37
26	Swirling flow implementation in a photobioreactor for batch and continuous cultures of <i>porphyridium cruentum</i> . <i>Biotechnology and Bioengineering</i> , 2003, 84, 544-551.	1.7	35
27	Characterization of hydrogen production by <i>Platymonas Subcordiformis</i> in torus photobioreactor. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7200-7205.	3.8	35
28	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
29	Investigation and modeling of biomass decay rate in the dark and its potential influence on net productivity of solar photobioreactors for microalga <i>Chlamydomonas reinhardtii</i> and cyanobacterium <i>Arthrospira platensis</i> . <i>Bioresource Technology</i> , 2013, 138, 271-276.	4.8	34
30	Simple method for measuring the spectral absorption cross-section of microalgae. <i>Chemical Engineering Science</i> , 2016, 146, 357-368.	1.9	33
31	The challenge of measuring biofuel sustainability: A stakeholder-driven approach applied to the French case. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 69, 933-947.	8.2	28
32	Global characterization of hydrodynamics and gas-liquid mass transfer in a thin-gap bubble column intended for microalgae cultivation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 76-89.	1.8	25
33	Large-Scale Production of Algal Biomass: Photobioreactors. <i>Green Energy and Technology</i> , 2016, , 41-66.	0.4	23
34	Photobioreactor design for isotopic non-stationary $^{13}\text{C}$ metabolic flux analysis (INST) Tj ETQq0 0 0 rgBT /Overlock 10 T 109, 3030-3040.	1.7	22
35	Eco-design of spirulina solar cultivation: Key aspects to reduce environmental impacts using Life Cycle Assessment. <i>Journal of Cleaner Production</i> , 2021, 299, 126741.	4.6	17
36	Solar cultivation of microalgae in a desert environment for the development of techno-functional feed ingredients for aquaculture in Qatar. <i>Science of the Total Environment</i> , 2022, 835, 155538.	3.9	16

#	ARTICLE	IF	CITATIONS
37	Cultivating Microalgae in Desert Conditions: Evaluation of the Effect of Light-Temperature Summer Conditions on the Growth and Metabolism of <i>Nannochloropsis</i> QU130. <i>Applied Sciences</i> (Switzerland), 2021, 11, 3799.	1.3	13
38	Reflection&#x2013;refraction effects on light distribution inside tubular photobioreactors. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1646-1651.	0.9	11
39	Light transfer in agar immobilized microalgae cell cultures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 198, 81-92.	1.1	11
40	Effect of colony formation on light absorption by <i>Botryococcus braunii</i> . <i>Algal Research</i> , 2020, 50, 101985.	2.4	11
41	Producing Energy-Rich Microalgae Biomass for Liquid Biofuels: Influence of Strain Selection and Culture Conditions. <i>Energies</i> , 2021, 14, 1246.	1.6	9
42	Microscopic flows of suspensions of the green non-motile <i>Chlorella</i> micro-alga at various volume fractions: Applications to intensified photobioreactors. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 231, 91-101.	1.0	7
43	Coupling biological and radiative models to describe microalgal growth in a photobioreactor. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 168-173.	0.4	6
44	Simultaneous control of pH and dissolved oxygen in closed photobioreactor. , 2018, , .		6
45	Impact of Dropwise Condensation on the Biomass Production Rate in Covered Raceway Ponds. <i>Energies</i> , 2021, 14, 268.	1.6	5
46	Passive thermal regulation approach for Algofilm Â© photobioreactor through phase change. <i>Chemical Engineering Research and Design</i> , 2021, 168, 411-425.	2.7	4
47	A novel external reflecting raceway pond design for improved biomass productivity. <i>Algal Research</i> , 2022, 65, 102742.	2.4	4
48	Effects of temperature, irradiance, and pH on the growth and biochemical composition of <i>Haslea ostrearia</i> batch-cultured in an airlift plan-photobioreactor. <i>Applied Microbiology and Biotechnology</i> , 2022, 106, 5233-5247.	1.7	3
49	Cultivation of Algae in Photobioreactors for Biodiesel Production. , 2019, , 629-659.		2
50	Microalgal biofuels: Pathways towards a positive energy balance. <i>Energy Conversion and Management</i> , 2022, 267, 115929.	4.4	1
51	Dynamic optimization of closed photobioreactors in solar conditions. A simulation study. , 2020, , .		0
52	Optimization of continuous TAG production by <i>Nannochloropsis gaditana</i> in solar&#x2013;nitrogen&#x2013;limited culture. <i>Biotechnology and Bioengineering</i> , 2022, , .	1.7	0