Marcel Janssen

List of Publications by Year in descending order

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71532 53660 6,031 86 45 76 citations h-index g-index papers 88 88 88 4950 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Photobiological hydrogen production: photochemical efficiency and bioreactor design. International Journal of Hydrogen Energy, 2002, 27, 1195-1208.	3.8	429
2	Enclosed outdoor photobioreactors: Light regime, photosynthetic efficiency, scale-up, and future prospects. Biotechnology and Bioengineering, 2003, 81, 193-210.	1.7	370
3	Nitrogen and phosphorus removal from municipal wastewater effluent using microalgal biofilms. Water Research, 2011, 45, 5925-5933.	5.3	271
4	Carotenoid and fatty acid metabolism in lightâ€stressed <i>Dunaliella salina </i> . Biotechnology and Bioengineering, 2010, 106, 638-648.	1.7	221
5	Cultivation of microalgae on artificial light comes at a cost. Algal Research, 2013, 2, 333-340.	2.4	193
6	Exploring and exploiting carotenoid accumulation in Dunaliella salina for cell-factory applications. Trends in Biotechnology, 2008, 26, 631-638.	4.9	166
7	Carotenoid and fatty acid metabolism in nitrogen-starved Dunaliella salina, a unicellular green microalga. Journal of Biotechnology, 2012, 162, 21-27.	1.9	163
8	Comparison of four outdoor pilot-scale photobioreactors. Biotechnology for Biofuels, 2015, 8, 215.	6.2	152
9	Microalgae cultivation in air-lift reactors: Modeling biomass yield and growth rate as a function of mixing frequency. Biotechnology and Bioengineering, 2003, 82, 170-179.	1.7	145
10	Metabolic modeling of Chlamydomonas reinhardtii: energy requirements for photoautotrophic growth and maintenance. Journal of Applied Phycology, 2012, 24, 253-266.	1.5	141
11	Productivity of <i>Chlorella sorokiniana</i> in a short lightâ€path (SLP) panel photobioreactor under high irradiance. Biotechnology and Bioengineering, 2009, 104, 352-359.	1.7	138
12	Horizontal or vertical photobioreactors? How to improve microalgae photosynthetic efficiency. Bioresource Technology, 2011, 102, 5129-5137.	4.8	137
13	Vitamin E (α-tocopherol) production by the marine microalgae Dunaliella tertiolecta and Tetraselmis suecica in batch cultivation. New Biotechnology, 2003, 20, 139-147.	2.7	135
14	Impact of light color on photobioreactor productivity. Algal Research, 2016, 15, 32-42.	2.4	128
15	Photosynthetic efficiency of <i>Chlorella sorokiniana</i> in a turbulently mixed short lightâ€path photobioreactor. Biotechnology Progress, 2010, 26, 687-696.	1.3	125
16	Biofilm growth of <i>Chlorella sorokiniana</i> in a rotating biological contactor based photobioreactor. Biotechnology and Bioengineering, 2014, 111, 2436-2445.	1.7	125
17	Balancing the organic load and light supply in symbiotic microalgal–bacterial biofilm reactors treating synthetic municipal wastewater. Ecological Engineering, 2014, 64, 213-221.	1.6	124
18	Efficiency of light utilization of Chlamydomonas reinhardtii under medium-duration light/dark cycles. Journal of Biotechnology, 2000, 78, 123-137.	1.9	116

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19	Photosynthetic efficiency of <i>Chlamydomonas reinhardtii</i> in flashing light. Biotechnology and Bioengineering, 2011, 108, 2905-2913.	1.7	112
20	Design Process of an Area-Efficient Photobioreactor. Marine Biotechnology, 2008, 10, 404-415.	1.1	108
21	Maximum Photosynthetic Yield of Green Microalgae in Photobioreactors. Marine Biotechnology, 2010, 12, 708-718.	1.1	106
22	Nutrient removal and microalgal biomass production on urine in a short light-path photobioreactor. Water Research, 2014, 55, 162-174.	5.3	103
23	Growth of oil accumulating microalga Neochloris oleoabundans under alkaline–saline conditions. Bioresource Technology, 2012, 104, 593-599.	4.8	102
24	Antenna size reduction as a strategy to increase biomass productivity: a great potential not yet realized. Journal of Applied Phycology, 2015, 27, 1063-1077.	1.5	88
25	Photosynthetic efficiency of Dunaliella tertiolecta under short light/dark cycles. Enzyme and Microbial Technology, 2001, 29, 298-305.	1.6	87
26	Scale-up aspects of photobioreactors: effects of mixing-induced light/dark cycles. Journal of Applied Phycology, 2000, 12, 225-237.	1.5	82
27	Selecting microalgae with high lipid productivity and photosynthetic activity under nitrogen starvation. Journal of Applied Phycology, 2015, 27, 1425-1431.	1.5	81
28	Scenario Analysis of Nutrient Removal from Municipal Wastewater by Microalgal Biofilms. Water (Switzerland), 2012, 4, 460-473.	1.2	79
29	Impact of hydraulic retention time on community assembly and function of photogranules for wastewater treatment. Water Research, 2020, 173, 115506.	5.3	79
30	Specific growth rate of Chlamydomonas reinhardtii and Chlorella sorokiniana under medium duration light/dark cycles: 13–87 s. Journal of Biotechnology, 1999, 70, 323-333.	1.9	73
31	A pneumatically agitated flat-panel photobioreactor with gas re-circulation: anaerobic photoheterotrophic cultivation of a purple non-sulfur bacterium. International Journal of Hydrogen Energy, 2002, 27, 1331-1338.	3.8	72
32	Predicting microalgae growth. Algal Research, 2016, 14, 28-38.	2.4	69
33	Carotenoid fluorescence in Dunaliella salina. Journal of Applied Phycology, 2010, 22, 645-649.	1.5	62
34	Photosynthetic efficiency and oxygen evolution of Chlamydomonas reinhardtii under continuous and flashing light. Applied Microbiology and Biotechnology, 2013, 97, 1523-1532.	1.7	61
35	Effect of O ₂ :CO ₂ ratio on the primary metabolism of <i>Chlamydomonas reinhardtii</i> . Biotechnology and Bioengineering, 2011, 108, 2390-2402.	1.7	57
36	The effect of harvesting on biomass production and nutrient removal in phototrophic biofilm reactors for effluent polishing. Journal of Applied Phycology, 2014, 26, 1439-1452.	1.5	57

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37	Continuous production of carotenoids from Dunaliella salina. Enzyme and Microbial Technology, 2011, 48, 253-259.	1.6	56
38	Photosynthetic efficiency of <i>Chlamydomonas reinhardtii</i> in attenuated, flashing light. Biotechnology and Bioengineering, 2012, 109, 2567-2574.	1.7	55
39	Light respiration in Chlorella sorokiniana. Journal of Applied Phycology, 2011, 23, 935-947.	1.5	52
40	Growth of the microalgae Neochloris oleoabundans at high partial oxygen pressures and sub-saturating light intensity. Bioresource Technology, 2012, 104, 565-570.	4.8	51
41	Design and construction of the microalgal pilot facility AlgaePARC. Algal Research, 2014, 6, 160-169.	2.4	51
42	Microalgae based production of single-cell protein. Current Opinion in Biotechnology, 2022, 75, 102705.	3.3	51
43	Nutrient Removal and Biomass Production in an Outdoor Pilot-Scale Phototrophic Biofilm Reactor for Effluent Polishing. Applied Biochemistry and Biotechnology, 2014, 172, 405-422.	1.4	50
44	Luminostat operation: A tool to maximize microalgae photosynthetic efficiency in photobioreactors during the daily light cycle?. Bioresource Technology, 2011, 102, 7871-7878.	4.8	49
45	Two-phase systems: Potential for in situ extraction of microalgal products. Biotechnology Advances, 2011, 29, 502-507.	6.0	46
46	Microalgae growth on concentrated human urine. Journal of Applied Phycology, 2014, 26, 287-297.	1.5	46
47	Doubling of Microalgae Productivity by Oxygen Balanced Mixotrophy. ACS Sustainable Chemistry and Engineering, 2020, 8, 6065-6074.	3.2	46
48	Performance of Chlorella sorokiniana under simulated extreme winter conditions. Journal of Applied Phycology, 2012, 24, 693-699.	1.5	43
49	The Selectivity of Milking of Dunaliella salina. Marine Biotechnology, 2010, 12, 14-23.	1.1	42
50	Capturing sunlight into a photobioreactor: Ray tracing simulations of the propagation of light from capture to distribution into the reactor. Chemical Engineering Journal, 2008, 145, 316-327.	6.6	39
51	The effect of irradiance on long-term skeletal growth and net photosynthesis in Galaxea fascicularis under four light conditions. Journal of Experimental Marine Biology and Ecology, 2008, 367, 75-80.	0.7	37
52	Controlling light-use byRhodobacter capsulatus continuous cultures in a flat-panel photobioreactor. Biotechnology and Bioengineering, 2006, 95, 613-626.	1.7	33
53	Biomass and lipid productivity of Neochloris oleoabundans under alkaline–saline conditions. Algal Research, 2013, 2, 204-211.	2.4	32
54	A liquid foam-bed photobioreactor for microalgae production. Chemical Engineering Journal, 2017, 313, 1206-1214.	6.6	31

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55	Phase toxicity of dodecane on the microalga Dunaliella salina. Journal of Applied Phycology, 2011, 23, 949-958.	1.5	29
56	A study of the growth for the microalgaChlorella vulgaris by photo-bio-calorimetry and other on-line and off-line techniques. Biotechnology and Bioengineering, 2007, 96, 757-767.	1.7	27
57	Opportunities to improve the areal oil productivity of microalgae. Bioresource Technology, 2015, 186, 294-302.	4.8	27
58	Turbidostat operation of outdoor pilot-scale photobioreactors. Algal Research, 2016, 18, 198-208.	2.4	27
59	The role of an electron pool in algal photosynthesis during sub-second light–dark cycling. Algal Research, 2015, 12, 43-51.	2.4	26
60	Optimizing carbon dioxide utilization for microalgae biofilm cultivation. Biotechnology and Bioengineering, 2017, 114, 769-776.	1.7	25
61	Mixotrophic cultivation of Galdieria sulphuraria for C-phycocyanin and protein production. Algal Research, 2022, 61, 102603.	2.4	25
62	Effect of photoacclimation on microalgae mass culture productivity. Algal Research, 2017, 22, 56-67.	2.4	23
63	Optimization of algae production on urine. Algal Research, 2019, 44, 101667.	2.4	21
64	Microalgal Photosynthesis and Growth in Mass Culture. Advances in Chemical Engineering, 2016, , 185-256.	0.5	20
65	Application of bench-scale biocalorimetry to photoautotrophic cultures. Thermochimica Acta, 2005, 435, 18-27.	1.2	18
66	Improved liquid foam-bed photobioreactor design for microalgae cultivation. Algal Research, 2018, 33, 55-70.	2.4	18
67	Autotrophic and mixotrophic biomass production of the acidophilic Galdieria sulphuraria ACUF 64. Algal Research, 2021, 60, 102513.	2.4	17
68	Microalgal biofilm growth under day-night cycles. Algal Research, 2017, 21, 16-26.	2.4	15
69	Calorimetry and thermodynamic aspects of heterotrophic, mixotrophic, and phototrophic growth. Journal of Thermal Analysis and Calorimetry, 2011, 104, 45-52.	2.0	14
70	Potential of a liquid foam-bed photobioreactor for microalgae cultivation. Algal Research, 2018, 36, 193-208.	2.4	14
71	Acid Tolerant and Acidophilic Microalgae: An Underexplored World of Biotechnological Opportunities. Frontiers in Microbiology, 2022, 13, 820907.	1.5	13
72	Biocalorimetric monitoring of photoautotrophic batch cultures. Thermochimica Acta, 2007, 458, 54-64.	1.2	12

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73	Second primary tumours in oropharyngeal squamous cell carcinoma. Clinical Oral Investigations, 2004, 8, 56-62.	1.4	11
74	Surfactant selection for a liquid foamâ€bed photobioreactor. Biotechnology Progress, 2018, 34, 711-720.	1.3	11
75	Specific growth rate of Chlamydomonas reinhardtii and Chlorella sorokiniana under medium duration light/dark cycles: 13–87 s. Progress in Industrial Microbiology, 1999, 35, 323-333.	0.0	10
76	Biohydrogen 2002. International Journal of Hydrogen Energy, 2002, 27, 1123-1124.	3.8	10
77	Oxygen Balanced Mixotrophy under Day–Night Cycles. ACS Sustainable Chemistry and Engineering, 2020, 8, 11682-11691.	3.2	10
78	Cyanobacterial growth and cyanophycin production with urea and ammonium as nitrogen source. Journal of Applied Phycology, 2021, 33, 3565-3577.	1.5	9
79	Modeling the competition between antenna size mutant and wild type microalgae in outdoor mass culture. Journal of Biotechnology, 2016, 240, 1-13.	1.9	8
80	Growth parameter estimation and model simulation for three industrially relevant microalgae: <i>Picochlorum, Nannochloropsis</i> , and <i>Neochloris</i> . Biotechnology and Bioengineering, 2022, 119, 1416-1425.	1.7	7
81	Decelerationâ€stats save much time during phototrophic culture optimization. Biotechnology and Bioengineering, 2014, 111, 792-802.	1.7	6
82	A novel V-shaped photobioreactor design for microalgae cultivation at low latitudes: Modelling biomass productivities of Chlorella sorokiniana on Bonaire. Chemical Engineering Journal, 2022, 449, 137793.	6.6	3
83	Enhanced Phototrophic Biomass Productivity through Supply of Hydrogen Gas. Environmental Science and Technology Letters, 2020, 7, 861-865.	3.9	1
84	Model-Based Prediction of Perceived Light Flashing in Recirculated Inclined Wavy-Bottomed Photobioreactors. Processes, 2021, 9, 1158.	1.3	1
85	Exploration of the hydrogen producing potential of <i>Rhodobacter capsulatus</i> chemostat cultures: The application of decelerationâ€stat and gradientâ€stat methodology. Biotechnology Progress, 2009, 25, 1343-1352.	1.3	O
86	Cultivation of Dunaliella for High Value Compounds. , 2009, , 91-110.		0