# Marcel Janssen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5150323/publications.pdf

Version: 2024-02-01

| 86 | 6,031 | 53660 45 | 71532 76 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 88 | 88 | 88 | 4950 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mixotrophic cultivation of Galdieria sulphuraria for C-phycocyanin and protein production. Algal Research, 2022, 61, 102603. | 2.4 | 25 |
| 2 | Acid Tolerant and Acidophilic Microalgae: An Underexplored World of Biotechnological Opportunities. Frontiers in Microbiology, 2022, 13, 820907. | 1.5 | 13 |
| 3 | Growth parameter estimation and model simulation for three industrially relevant microalgae: Picochlorum, Nannochloropsis, and Neochloris. Biotechnology and Bioengineering, 2022, 119, 1416-1425. | 1.7 | 7 |
| 4 | Microalgae based production of single-cell protein. Current Opinion in Biotechnology, 2022, 75, 102705. | 3.3 | 51 |
| 5 | 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 |
| 6 | Model-Based Prediction of Perceived Light Flashing in Recirculated Inclined Wavy-Bottomed Photobioreactors. Processes, 2021, 9, 1158. | 1.3 | 1 |
| 7 | Cyanobacterial growth and cyanophycin production with urea and ammonium as nitrogen source. Journal of Applied Phycology, 2021, 33, 3565-3577. | 1.5 | 9 |
| 8 | Autotrophic and mixotrophic biomass production of the acidophilic Galdieria sulphuraria ACUF 64. Algal Research, 2021, 60, 102513. | 2.4 | 17 |
| 9 | Enhanced Phototrophic Biomass Productivity through Supply of Hydrogen Gas. Environmental Science and Technology Letters, 2020, 7, 861-865. | 3.9 | 1 |
| 10 | Oxygen Balanced Mixotrophy under Dayâ€“Night Cycles. ACS Sustainable Chemistry and Engineering, 2020, 8, 11682-11691. | 3.2 | 10 |
| 11 | Doubling of Microalgae Productivity by Oxygen Balanced Mixotrophy. ACS Sustainable Chemistry and Engineering, 2020, 8, 6065-6074. | 3.2 | 46 |
| 12 | Impact of hydraulic retention time on community assembly and function of photogranules for wastewater treatment. Water Research, 2020, 173, 115506. | 5.3 | 79 |
| 13 | Optimization of algae production on urine. Algal Research, 2019, 44, 101667. | 2.4 | 21 |
| 14 | Surfactant selection for a liquid foamâ€bed photobioreactor. Biotechnology Progress, 2018, 34, 711-720. | 1.3 | 11 |
| 15 | Potential of a liquid foam-bed photobioreactor for microalgae cultivation. Algal Research, 2018, 36, 193-208. | 2.4 | 14 |
| 16 | Improved liquid foam-bed photobioreactor design for microalgae cultivation. Algal Research, 2018, 33, 55-70. | 2.4 | 18 |
| 17 | Effect of photoacclimation on microalgae mass culture productivity. Algal Research, 2017, 22, 56-67. | 2.4 | 23 |
| 18 | A liquid foam-bed photobioreactor for microalgae production. Chemical Engineering Journal, 2017, 313, 1206-1214. | 6.6 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Microalgal biofilm growth under day-night cycles. Algal Research, 2017, 21, 16-26. | 2.4 | 15 |
| 20 | Optimizing carbon dioxide utilization for microalgae biofilm cultivation. Biotechnology and Bioengineering, 2017, 114, 769-776. | 1.7 | 25 |
| 21 | Microalgal Photosynthesis and Growth in Mass Culture. Advances in Chemical Engineering, 2016, , 185-256. | 0.5 | 20 |
| 22 | 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 |
| 23 | Turbidostat operation of outdoor pilot-scale photobioreactors. Algal Research, 2016, 18, 198-208. | 2.4 | 27 |
| 24 | Impact of light color on photobioreactor productivity. Algal Research, 2016, 15, 32-42. | 2.4 | 128 |
| 25 | Predicting microalgae growth. Algal Research, 2016, 14, 28-38. | 2.4 | 69 |
| 26 | Comparison of four outdoor pilot-scale photobioreactors. Biotechnology for Biofuels, 2015, 8, 215. | 6.2 | 152 |
| 27 | 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 |
| 28 | Opportunities to improve the areal oil productivity of microalgae. Bioresource Technology, 2015, 186, 294-302. | 4.8 | 27 |
| 29 | The role of an electron pool in algal photosynthesis during sub-second lightâ€“dark cycling. Algal Research, 2015, 12, 43-51. | 2.4 | 26 |
| 30 | Selecting microalgae with high lipid productivity and photosynthetic activity under nitrogen starvation. Journal of Applied Phycology, 2015, 27, 1425-1431. | 1.5 | 81 |
| 31 | Decelerationâ€stats save much time during phototrophic culture optimization. Biotechnology and Bioengineering, 2014, 111, 792-802. | 1.7 | 6 |
| 32 | 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 |
| 33 | Microalgae growth on concentrated human urine. Journal of Applied Phycology, 2014, 26, 287-297. | 1.5 | 46 |
| 34 | 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 |
| 35 | Balancing the organic load and light supply in symbiotic microalgalâ€“bacterial biofilm reactors treating synthetic municipal wastewater. Ecological Engineering, 2014, 64, 213-221. | 1.6 | 124 |
| 36 | Nutrient removal and microalgal biomass production on urine in a short light-path photobioreactor. Water Research, 2014, 55, 162-174. | 5.3 | 103 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Design and construction of the microalgal pilot facility AlgaePARC. Algal Research, 2014, 6, 160-169. | 2.4 | 51 |
| 38 | Biofilm growth of Chlorella sorokiniana in a rotating biological contactor based photobioreactor. Biotechnology and Bioengineering, 2014, 111, 2436-2445. | 1.7 | 125 |
| 39 | Photosynthetic efficiency and oxygen evolution of Chlamydomonas reinhardtii under continuous and flashing light. Applied Microbiology and Biotechnology, 2013, 97, 1523-1532. | 1.7 | 61 |
| 40 | Biomass and lipid productivity of Neochloris oleoabundans under alkalineâ€“saline conditions. Algal Research, 2013, 2, 204-211. | 2.4 | 32 |
| 41 | Cultivation of microalgae on artificial light comes at a cost. Algal Research, 2013, 2, 333-340. | 2.4 | 193 |
| 42 | Scenario Analysis of Nutrient Removal from Municipal Wastewater by Microalgal Biofilms. Water (Switzerland), 2012, 4, 460-473. | 1.2 | 79 |
| 43 | Carotenoid and fatty acid metabolism in nitrogen-starved Dunaliella salina, a unicellular green microalga. Journal of Biotechnology, 2012, 162, 21-27. | 1.9 | 163 |
| 44 | Photosynthetic efficiency of Chlamydomonas reinhardtii in attenuated, flashing light. Biotechnology and Bioengineering, 2012, 109, 2567-2574. | 1.7 | 55 |
| 45 | Performance of Chlorella sorokiniana under simulated extreme winter conditions. Journal of Applied Phycology, 2012, 24, 693-699. | 1.5 | 43 |
| 46 | 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 |
| 47 | Growth of oil accumulating microalga Neochloris oleoabundans under alkalineâ€“saline conditions. Bioresource Technology, 2012, 104, 593-599. | 4.8 | 102 |
| 48 | Metabolic modeling of Chlamydomonas reinhardtii: energy requirements for photoautotrophic growth and maintenance. Journal of Applied Phycology, 2012, 24, 253-266. | 1.5 | 141 |
| 49 | Nitrogen and phosphorus removal from municipal wastewater effluent using microalgal biofilms. Water Research, 2011, 45, 5925-5933. | 5.3 | 271 |
| 50 | 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 |
| 51 | Two-phase systems: Potential for in situ extraction of microalgal products. Biotechnology Advances, 2011, 29, 502-507. | 6.0 | 46 |
| 52 | Light respiration in Chlorella sorokiniana. Journal of Applied Phycology, 2011, 23, 935-947. | 1.5 | 52 |
| 53 | Phase toxicity of dodecane on the microalga Dunaliella salina. Journal of Applied Phycology, 2011, 23, 949-958. | 1.5 | 29 |
| 54 | Calorimetry and thermodynamic aspects of heterotrophic, mixotrophic, and phototrophic growth. Journal of Thermal Analysis and Calorimetry, 2011, 104, 45-52. | 2.0 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Horizontal or vertical photobioreactors? How to improve microalgae photosynthetic efficiency. Bioresource Technology, 2011, 102, 5129-5137. | 4.8 | 137 |
| 56 | Effect of O<sub>2</sub>:CO<sub>2</sub> ratio on the primary metabolism of Chlamydomonas reinhardtii. Biotechnology and Bioengineering, 2011, 108, 2390-2402. | 1.7 | 57 |
| 57 | Photosynthetic efficiency of Chlamydomonas reinhardtii in flashing light. Biotechnology and Bioengineering, 2011, 108, 2905-2913. | 1.7 | 112 |
| 58 | Continuous production of carotenoids from Dunaliella salina. Enzyme and Microbial Technology, 2011, 48, 253-259. | 1.6 | 56 |
| 59 | The Selectivity of Milking of Dunaliella salina. Marine Biotechnology, 2010, 12, 14-23. | 1.1 | 42 |
| 60 | Maximum Photosynthetic Yield of Green Microalgae in Photobioreactors. Marine Biotechnology, 2010, 12, 708-718. | 1.1 | 106 |
| 61 | Carotenoid fluorescence in Dunaliella salina. Journal of Applied Phycology, 2010, 22, 645-649. | 1.5 | 62 |
| 62 | Photosynthetic efficiency of Chlorella sorokiniana in a turbulently mixed short lightâ€path photobioreactor. Biotechnology Progress, 2010, 26, 687-696. | 1.3 | 125 |
| 63 | Carotenoid and fatty acid metabolism in lightâ€stressed Dunaliella salina. Biotechnology and Bioengineering, 2010, 106, 638-648. | 1.7 | 221 |
| 64 | Productivity of Chlorella sorokiniana in a short lightâ€path (SLP) panel photobioreactor under high irradiance. Biotechnology and Bioengineering, 2009, 104, 352-359. | 1.7 | 138 |
| 65 | Exploration of the hydrogen producing potential of Rhodobacter capsulatus chemostat cultures: The application of decelerationâ€stat and gradientâ€stat methodology. Biotechnology Progress, 2009, 25, 1343-1352. | 1.3 | 0 |
| 66 | Cultivation of Dunaliella for High Value Compounds. , 2009, , 91-110. | | 0 |
| 67 | Design Process of an Area-Efficient Photobioreactor. Marine Biotechnology, 2008, 10, 404-415. | 1.1 | 108 |
| 68 | 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 |
| 69 | 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 |
| 70 | Exploring and exploiting carotenoid accumulation in Dunaliella salina for cell-factory applications. Trends in Biotechnology, 2008, 26, 631-638. | 4.9 | 166 |
| 71 | 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 |
| 72 | Biocalorimetric monitoring of photoautotrophic batch cultures. Thermochimica Acta, 2007, 458, 54-64. | 1.2 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Controlling light-use byRhodobacter capsulatus continuous cultures in a flat-panel photobioreactor. Biotechnology and Bioengineering, 2006, 95, 613-626. | 1.7 | 33 |
| 74 | Application of bench-scale biocalorimetry to photoautotrophic cultures. Thermochimica Acta, 2005, 435, 18-27. | 1.2 | 18 |
| 75 | Second primary tumours in oropharyngeal squamous cell carcinoma. Clinical Oral Investigations, 2004, 8, 56-62. | 1.4 | 11 |
| 76 | Enclosed outdoor photobioreactors: Light regime, photosynthetic efficiency, scale-up, and future prospects. Biotechnology and Bioengineering, 2003, 81, 193-210. | 1.7 | 370 |
| 77 | 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 |
| 78 | Vitamin E (Î±-tocopherol) production by the marine microalgae Dunaliella tertiolecta and Tetraselmis suecica in batch cultivation. New Biotechnology, 2003, 20, 139-147. | 2.7 | 135 |
| 79 | Photobiological hydrogen production: photochemical efficiency and bioreactor design. International Journal of Hydrogen Energy, 2002, 27, 1195-1208. | 3.8 | 429 |
| 80 | 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 |
| 81 | Biohydrogen 2002. International Journal of Hydrogen Energy, 2002, 27, 1123-1124. | 3.8 | 10 |
| 82 | Photosynthetic efficiency of Dunaliella tertiolecta under short light/dark cycles. Enzyme and Microbial Technology, 2001, 29, 298-305. | 1.6 | 87 |
| 83 | Scale-up aspects of photobioreactors: effects of mixing-induced light/dark cycles. Journal of Applied Phycology, 2000, 12, 225-237. | 1.5 | 82 |
| 84 | Efficiency of light utilization of Chlamydomonas reinhardtii under medium-duration light/dark cycles. Journal of Biotechnology, 2000, 78, 123-137. | 1.9 | 116 |
| 85 | Specific growth rate of Chlamydomonas reinhardtii and Chlorella sorokiniana under medium duration light/dark cycles: 13â€“87 s. Progress in Industrial Microbiology, 1999, 35, 323-333. | 0.0 | 10 |
| 86 | Specific growth rate of Chlamydomonas reinhardtii and Chlorella sorokiniana under medium duration light/dark cycles: 13â€“87 s. Journal of Biotechnology, 1999, 70, 323-333. | 1.9 | 73 |