# Jan H Mussgnug

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 32 papers | 5,495 citations | 201385 27 h-index | 454577 30 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 5553 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | RNA extraction from soil bacterium Pseudomonas putida and green alga Raphidocelis subcapitata after exposure to nanoscale zero valent iron. , 2020, , . | | 0 |
| 2 | Phosphorus and nitrogen starvation reveal lifeâ€cycle specific responses in the metabolome of Emiliania huxleyi (Haptophyta). Limnology and Oceanography, 2018, 63, 203-226. | 1.6 | 23 |
| 3 | Nuclear transformation and functional gene expression in the oleaginous microalga Monoraphidium neglectum. Journal of Biotechnology, 2017, 249, 10-15. | 1.9 | 28 |
| 4 | Nuclear Transformation and Toolbox Development. Microbiology Monographs, 2017, , 27-58. | 0.3 | 0 |
| 5 | Time-resolved transcriptome analysis and lipid pathway reconstruction of the oleaginous green microalga Monoraphidium neglectum reveal a model for triacylglycerol and lipid hyperaccumulation. Biotechnology for Biofuels, 2017, 10, 197. | 6.2 | 35 |
| 6 | Efficient phototrophic production of a high-value sesquiterpenoid from the eukaryotic microalga Chlamydomonas reinhardtii. Metabolic Engineering, 2016, 38, 331-343. | 3.6 | 120 |
| 7 | Efficiency and biotechnological aspects of biogas production from microalgal substrates. Journal of Biotechnology, 2016, 234, 7-26. | 1.9 | 69 |
| 8 | Label-free in vivo analysis of intracellular lipid droplets in the oleaginous microalga Monoraphidium neglectum by coherent Raman scattering microscopy. Scientific Reports, 2016, 6, 35340. | 1.6 | 35 |
| 9 | Genetic tools and techniques for Chlamydomonas reinhardtii. Applied Microbiology and Biotechnology, 2015, 99, 5407-5418. | 1.7 | 70 |
| 10 | A novel one-stage cultivation/fermentation strategy for improved biogas production with microalgal biomass. Journal of Biotechnology, 2015, 215, 44-51. | 1.9 | 52 |
| 11 | Targeted expression of nuclear transgenes in Chlamydomonas reinhardtii with a versatile, modular vector toolkit. Applied Microbiology and Biotechnology, 2015, 99, 3491-3503. | 1.7 | 123 |
| 12 | 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 |
| 13 | Investigating the dynamics of recombinant protein secretion from a microalgal host. Journal of Biotechnology, 2015, 215, 62-71. | 1.9 | 38 |
| 14 | Light-Harvesting Complex Protein LHCBM9 Is Critical for Photosystem II Activity and Hydrogen Production in Chlamydomonas reinhardtii Â Â. Plant Cell, 2014, 26, 1598-1611. | 3.1 | 64 |
| 15 | Ice recrystallization inhibition mediated by a nuclear-expressed and -secreted recombinant ice-binding protein in the microalga Chlamydomonas reinhardtii. Applied Microbiology and Biotechnology, 2013, 97, 9763-9772. | 1.7 | 35 |
| 16 | Reconstruction of the lipid metabolism for the microalga Monoraphidium neglectum from its genome sequence reveals characteristics suitable for biofuel production. BMC Genomics, 2013, 14, 926. | 1.2 | 84 |
| 17 | Identification of Monoraphidium contortum as a promising species for liquid biofuel production. Bioresource Technology, 2013, 133, 622-626. | 4.8 | 81 |
| 18 | Efficient recombinant protein production and secretion from nuclear transgenes in Chlamydomonas reinhardtii. Journal of Biotechnology, 2013, 167, 101-110. | 1.9 | 87 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | An economic and technical evaluation of microalgal biofuels. Nature Biotechnology, 2010, 28, 126-128. | 9.4 | 412 |
| 20 | The Interplay of Proton, Electron, and Metabolite Supply for Photosynthetic H2 Production in Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2010, 285, 30247-30260. | 1.6 | 68 |
| 21 | Future prospects of microalgal biofuel production systems. Trends in Plant Science, 2010, 15, 554-564. | 4.3 | 288 |
| 22 | Cysteine modification of a specific repressor protein controls the translational status of nucleus-encoded LHCII mRNAs in Chlamydomonas. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13290-13295. | 3.3 | 56 |
| 23 | Second Generation Biofuels: High-Efficiency Microalgae for Biodiesel Production. Bioenergy Research, 2008, 1, 20-43. | 2.2 | 1,932 |
| 24 | The metagenome of a biogas-producing microbial community of a production-scale biogas plant fermenter analysed by the 454-pyrosequencing technology. Journal of Biotechnology, 2008, 136, 77-90. | 1.9 | 329 |
| 25 | Transcriptome for Photobiological Hydrogen Production Induced by Sulfur Deprivation in the Green Alga Chlamydomonas reinhardtii. Eukaryotic Cell, 2008, 7, 1965-1979. | 3.4 | 136 |
| 26 | Functional integration of the HUP1 hexose symporter gene into the genome of C. reinhardtii: Impacts on biological H2 production. Journal of Biotechnology, 2007, 131, 27-33. | 1.9 | 130 |
| 27 | Engineering photosynthetic light capture: impacts on improved solar energy to biomass conversion. Plant Biotechnology Journal, 2007, 5, 802-814. | 4.1 | 313 |
| 28 | Photosynthetic biomass and H2production by green algae: from bioengineering to bioreactor scale-up. Physiologia Plantarum, 2007, 131, 10-21. | 2.6 | 189 |
| 29 | Perspectives and advances of biological H2 production in microorganisms. Applied Microbiology and Biotechnology, 2006, 72, 442-449. | 1.7 | 175 |
| 30 | NAB1 Is an RNA Binding Protein Involved in the Light-Regulated Differential Expression of the Light-Harvesting Antenna of Chlamydomonas reinhardtii. Plant Cell, 2005, 17, 3409-3421. | 3.1 | 136 |
| 31 | Photosynthesis: a blueprint for solar energy capture and biohydrogen production technologies. Photochemical and Photobiological Sciences, 2005, 4, 957. | 1.6 | 284 |
| 32 | Ligation-mediated suppression-PCR as a powerful tool to analyse nuclear gene sequences in the green alga Chlamydomonas reinhardtii. Photosynthesis Research, 2001, 70, 311-320. | 1.6 | 15 |