

# Jan H Mussgnug

## List of Publications by Year in descending order

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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	Second Generation Biofuels: High-Efficiency Microalgae for Biodiesel Production. <i>Bioenergy Research</i> , 2008, 1, 20-43.	2.2	1,932
2	An economic and technical evaluation of microalgal biofuels. <i>Nature Biotechnology</i> , 2010, 28, 126-128.	9.4	412
3	The metagenome of a biogas-producing microbial community of a production-scale biogas plant fermenter analysed by the 454-pyrosequencing technology. <i>Journal of Biotechnology</i> , 2008, 136, 77-90.	1.9	329
4	Engineering photosynthetic light capture: impacts on improved solar energy to biomass conversion. <i>Plant Biotechnology Journal</i> , 2007, 5, 802-814.	4.1	313
5	Future prospects of microalgal biofuel production systems. <i>Trends in Plant Science</i> , 2010, 15, 554-564.	4.3	288
6	Photosynthesis: a blueprint for solar energy capture and biohydrogen production technologies. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 957.	1.6	284
7	Photosynthetic biomass and H <sub>2</sub> production by green algae: from bioengineering to bioreactor scale-up. <i>Physiologia Plantarum</i> , 2007, 131, 10-21.	2.6	189
8	Perspectives and advances of biological H <sub>2</sub> production in microorganisms. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 442-449.	1.7	175
9	NAB1 Is an RNA Binding Protein Involved in the Light-Regulated Differential Expression of the Light-Harvesting Antenna of <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2005, 17, 3409-3421.	3.1	136
10	Transcriptome for Photobiological Hydrogen Production Induced by Sulfur Deprivation in the Green Alga <i>Chlamydomonas reinhardtii</i> . <i>Eukaryotic Cell</i> , 2008, 7, 1965-1979.	3.4	136
11	Functional integration of the HUP1 hexose symporter gene into the genome of <i>C. reinhardtii</i> : Impacts on biological H <sub>2</sub> production. <i>Journal of Biotechnology</i> , 2007, 131, 27-33.	1.9	130
12	Targeted expression of nuclear transgenes in <i>Chlamydomonas reinhardtii</i> with a versatile, modular vector toolkit. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 3491-3503.	1.7	123
13	Efficient phototrophic production of a high-value sesquiterpenoid from the eukaryotic microalga <i>Chlamydomonas reinhardtii</i> . <i>Metabolic Engineering</i> , 2016, 38, 331-343.	3.6	120
14	Antenna size reduction as a strategy to increase biomass productivity: a great potential not yet realized. <i>Journal of Applied Phycology</i> , 2015, 27, 1063-1077.	1.5	88
15	Efficient recombinant protein production and secretion from nuclear transgenes in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biotechnology</i> , 2013, 167, 101-110.	1.9	87
16	Reconstruction of the lipid metabolism for the microalga <i>Monoraphidium neglectum</i> from its genome sequence reveals characteristics suitable for biofuel production. <i>BMC Genomics</i> , 2013, 14, 926.	1.2	84
17	Identification of <i>Monoraphidium contortum</i> as a promising species for liquid biofuel production. <i>Bioresource Technology</i> , 2013, 133, 622-626.	4.8	81
18	Genetic tools and techniques for <i>Chlamydomonas reinhardtii</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 5407-5418.	1.7	70

#	ARTICLE	IF	CITATIONS
19	Efficiency and biotechnological aspects of biogas production from microalgal substrates. <i>Journal of Biotechnology</i> , 2016, 234, 7-26.	1.9	69
20	The Interplay of Proton, Electron, and Metabolite Supply for Photosynthetic H <sub>2</sub> Production in <i>Chlamydomonas reinhardtii</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 30247-30260.	1.6	68
21	Light-Harvesting Complex Protein LHCBM9 Is Critical for Photosystem II Activity and Hydrogen Production in <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 1598-1611.	3.1	64
22	Cysteine modification of a specific repressor protein controls the translational status of nucleus-encoded LHCB mRNAs in <i>Chlamydomonas</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 13290-13295.	3.3	56
23	A novel one-stage cultivation/fermentation strategy for improved biogas production with microalgal biomass. <i>Journal of Biotechnology</i> , 2015, 215, 44-51.	1.9	52
24	Investigating the dynamics of recombinant protein secretion from a microalgal host. <i>Journal of Biotechnology</i> , 2015, 215, 62-71.	1.9	38
25	Ice recrystallization inhibition mediated by a nuclear-expressed and -secreted recombinant ice-binding protein in the microalga <i>Chlamydomonas reinhardtii</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9763-9772.	1.7	35
26	Label-free in vivo analysis of intracellular lipid droplets in the oleaginous microalga <i>Monoraphidium neglectum</i> by coherent Raman scattering microscopy. <i>Scientific Reports</i> , 2016, 6, 35340.	1.6	35
27	Time-resolved transcriptome analysis and lipid pathway reconstruction of the oleaginous green microalga <i>Monoraphidium neglectum</i> reveal a model for triacylglycerol and lipid hyperaccumulation. <i>Biotechnology for Biofuels</i> , 2017, 10, 197.	6.2	35
28	Nuclear transformation and functional gene expression in the oleaginous microalga <i>Monoraphidium neglectum</i> . <i>Journal of Biotechnology</i> , 2017, 249, 10-15.	1.9	28
29	Phosphorus and nitrogen starvation reveal life cycle specific responses in the metabolome of <i>Emiliania huxleyi</i> (Haptophyta). <i>Limnology and Oceanography</i> , 2018, 63, 203-226.	1.6	23
30	Ligation-mediated suppression-PCR as a powerful tool to analyse nuclear gene sequences in the green alga <i>Chlamydomonas reinhardtii</i> . <i>Photosynthesis Research</i> , 2001, 70, 311-320.	1.6	15
31	Nuclear Transformation and Toolbox Development. <i>Microbiology Monographs</i> , 2017, , 27-58.	0.3	0
32	RNA extraction from soil bacterium <i>Pseudomonas putida</i> and green alga <i>Raphidocelis subcapitata</i> after exposure to nanoscale zero valent iron. , 2020, , .		0