TEMPLATE A1: LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS, STARTING WITH THE MOST IMPORTANT ONES										
NO.	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication	Relevant pages	Permanent identifiers[1] (if available)	Is/Will open access[2] provided to this publication?
1	*Efficient phototrophic production of a high-value sesquiterpenoid from the eukaryotic microalga Chlamydomonas reinhardtii*	*Lauersen, Thomas Baier, Julian Wichmann, Robin Wördenweber, Jan H. Mussgnug, Wolfgang Hübner, Thomas Huser, Olaf Kruse*	*Metabolic Engineering*	*38*	*Academic Press*	*United States*	*2016*	*pp. 331-343*	http://doi.org/10.1016/j.ymben.2016.07.013	yes
2	*Isobutanol production in Synechocystis PCC 6803 using heterologous and endogenous alcohol dehydrogenases*	*Rui Miao, Xufeng Liu, Elias Englund, Pia Lindberg, Peter Lindblad*	*Metabolic Engineering Communications*	*5*	*Elsevier BV*	*Netherlands*	*2017*	*pp. 45 - 53*	http://doi.org/10.1016/j.meteno.2017.07.003	yes
3	*Tailored carbon partitioning for phototrophic production of (E)-α-bisabolene from the green microalga Chlamydomonas reinhardtii*	*Julian Wichmann, Thomas Baier, Eduard Wentnagel, Kyle J. Lauersen, Olaf Kruse*	*Metabolic Engineering*	*45*	*Academic Press*	*United States*	*2018*	*pp. 211-222*	http://doi.org/10.1016/j.ymben.2017.12.010	yes
4	*Protein engineering of α-ketoisovalerate decarboxylase for improved isobutanol production in Synechocystis PCC 6803*	*Rui Miao, Hao Xie, Felix Ho, Peter Lindblad*	*Metabolic Engineering*	*47*	*Academic Press*	*United States*	*2018*	*pp. 42 - 48*	http://doi.org/10.1016/j.ymben.2018.02.014	yes
5	*Intron-containing algal transgenes mediate efficient recombinant gene*	*Thomas Baier, Julian Wichmann, Olaf Kruse, Kyle J Lauersen*	*Nucleic Acids Research*	*13*	*Oxford University Press*	*United Kingdom*	*2018*	*pp. 6909–6919*	http://doi.org/10.1093/nar/gky532	yes

[1] A permanent identifier should be a persistent link to the published version full text if open access or abstract if article is pay per view) or to the final manuscript accepted for publication (link to article in repository).

[2] Open Access is defined as free of charge access for anyone via Internet. Please answer "yes" if the open access to the publication is already established and also if the embargo period for open access is not yet over but you intend to establish open access afterwards.

	expression in the green microalga Chlamydomonas reinhardtii									
6	*Photocatalytic Production of Bisabolene from Green Microalgae Mutant: Process Analysis and Kinetic Modeling*	*Irina Harun, Ehecatl Antonio Del Rio-Chanona, Jonathan L. Wagner, Kyle J. Lauersen, Dongda Zhang, Klaus Hellgardt*	*Industrial & Engineering Chemistry Research*	*57*	*American Chemical Society*	*United States*	*2018*	*pp. 10336-10344*	http://doi.org/10.1021/acs.iecr.8b02509	yes
7	*Photosynthesis-dependent biosynthesis of medium chain-length fatty acids and alcohols*	*Ian Sofian Yunus, Patrik R. Jones*	*Metabolic Engineering*	*49*	*Academic Press*	*United States*	*2018*	*pp. 59-68*	http://doi.org/10.1016/j.ymben.2018.07.015	yes
8	*Synthetic metabolic pathways for photobiological conversion of CO2 into hydrocarbon fuel*	*Ian Sofian Yunus, Julian Wichmann, Robin Wördenweber, Kyle J. Lauersen, Olaf Kruse, Patrik R. Jones*	*Metabolic Engineering*	*49*	*Academic Press*	*United States*	*2018*	*pp. 201-211-*	http://doi.org/10.1016/j.ymben.2018.08.008	yes
9	*Enhancement of photosynthetic isobutanol production in engineered cells of Synechocystis PCC 6803*	*Rui Miao, Hao Xie, Peter Lindblad*	*Biotechnology for Biofuels*	*11/1*	*Springer - BioMed Central*	*United Kingdom*	*2018*	*pp. 331-*	http://doi.org/10.1186/s13068-018-1268-8	yes
10	*Modular engineering for efficient photosynthetic biosynthesis of 1-butanol from CO2 in cyanobacteria*	*Xufeng Liu, Rui Miao, Pia Lindberg, Peter Lindblad*	*Energy & Environmental Science*	*12*	*Royal Society of Chemistry*	*United Kingdom*	*2019*	*pp. 2765-2777*	http://doi.org/10.1039/c9ee01214a	yes
11	*Recovery of excreted n-butanol from genetically engineered cyanobacteria cultures: Process*	*Jonathan L. Wagner, Daniel Lee-Lane, Mark Monaghan, Mahdi Sharifzadeh, Klaus Hellgardt*	*Algal Research*	*37*	*Elsevier BV*	*Netherlands*	*2019*	*pp. 92-102*	http://doi.org/10.1016/j.algal.2018.11.008	yes

	modelling to quantify energy and economic costs of different separation technologies									
12	*Deep learning-Based surrogate modeling and optimization for microalgal biofuel production and photobioreactor design*	*Ehecatl Antonio Rio-Chanona, Jonathan L. Wagner, Haider Ali, Fabio Fiorelli, Dongda Zhang, Klaus Hellgardt*	*Metabolic Engineering*	*65*	*American Institute of Chemical Engineers*	*United States*	*2019*	*pp. 915-923*	http://doi.org/10.1002/aic.16473	yes
13	*Methanol-free biosynthesis of fatty acid methyl ester (FAME) in Synechocystis sp. PCC 6803*	*Ian Sofian Yunus, Arianna Palma, Devin L. Trudeau, Dan S. Tawfik, Patrik R. Jones*	*Metabolic Engineering*	*57*	*Academic Press*	*United States*	*2020*	*pp. 217-227*	http://doi.org/10.1016/j.ymben.2019.12.001	yes
14	*Bioderivatization as a concept for renewable production of chemicals that are toxic or poorly soluble in the liquid phase*	*Pachara Sattayawat, Ian Sofian Yunus, Patrik R. Jones*	*Proceedings of the National Academy of Sciences*	*117 (3)*	*National Academy of Sciences*	*United States*	*2020*	*pp. 1404-1413*	http://doi.org/10.1073/pnas.1914069117	yes
15	*Current processes and future challenges of photoautotrophic production of acetyl-CoA-derived solar fuels and chemicals in cyanobacteria*	*Rui Miao, Hao Xie, Xufeng Liu, Pia Lindberg, Peter Lindblad*	*Current Opinion in Chemical Biology*	*59*	*Elsevier*	*Netherlands*	*2020*	*pp 69-76*	http://doi.org/10.1016/j.cbpa.2020.04.013	yes
16	*Low carbon strategies for sustainable bio-alkane gas production and renewable energy*	*Mohamed Amer, Emilia Z. Wojcik, Chenhao Sun, Robin Hoeven, John M. X. Hughes, Matthew Faulkner, Ian Sofian Yunus, Shirley Tait, Linus O. Johannissen, Samantha J. O.*	*Energy & Environmental Science*		*Royal Society of Chemistry*	*United Kingdom*	*2020*		http://doi.org/10.1039/d0ee00095g	yes

		Hardman, Derren J. Heyes, Guo-Qiang Chen, Michael H. Smith, Patrik R. Jones, Helen S. Toogood, Nigel S. Scrutton								
17	*Combustion characteristics of oxygenated fuels Ethanol -and Butanol-gasoline fuel blends, and their impact on performance, emissions and Soot Index*	*P. Anselmi, M. Matrat, L. Starck, F. Duffour*	*JSAE/SAE 2019 Powertrains, Fuels and Lubricants International meeting*		*SAE*	*Japan*	*2019*		http://doi.org/10.4271/2019-01-2307	no
18	*Acceptability of genetically engineered algae biofuels in Europe: opinions of experts and stakeholders*	*Jessica Varela Villarreal, Cecilia Burgués, Christine Rösch*	*Biotechnology for Biofuels*	*13/1*	*BMC*	*London*	*2020*		http://doi.org/10.1186/s13068-020-01730-y	yes
19	*Economic feasibility and long-term sustainability criteria on the path to enable a transition from fossil fuels to biofuels*	*Giorgio Perin, Patrik R Jones*	*Current Opinion in Biotechnology*	*57*	*Elsevier*	*Netherlands*	*2019*		http://doi.org/10.1016/j.copbio.2019.04.004	no