

# Thomas Baier

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

1,273  
citations

566801

15  
h-index

676716

22  
g-index

27  
all docs

27  
docs citations

27  
times ranked

921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Birth of a Photosynthetic Chassis: A MoClo Toolkit Enabling Synthetic Biology in the Microalga <i>Chlamydomonas reinhardtii</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2074-2086.	1.9	225
2	Intron-containing algal transgenes mediate efficient recombinant gene expression in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Nucleic Acids Research</i> , 2018, 46, 6909-6919.	6.5	136
3	Tailored carbon partitioning for phototrophic production of (E)- $\beta$ -bisabolene from the green microalga <i>Chlamydomonas reinhardtii</i> . <i>Metabolic Engineering</i> , 2018, 45, 211-222.	3.6	125
4	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
5	Turning a green alga red: engineering astaxanthin biosynthesis by intragenic pseudogene revival in <i>Chlamydomonas reinhardtii</i> . <i>Plant Biotechnology Journal</i> , 2020, 18, 2053-2067.	4.1	103
6	Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from <i>Chlamydomonas reinhardtii</i> . <i>Metabolic Engineering</i> , 2018, 49, 116-127.	3.6	91
7	Introns mediate post-transcriptional enhancement of nuclear gene expression in the green microalga <i>Chlamydomonas reinhardtii</i> . <i>PLoS Genetics</i> , 2020, 16, e1008944.	1.5	62
8	Patchoulol Production with Metabolically Engineered <i>Corynebacterium glutamicum</i> . <i>Genes</i> , 2018, 9, 219.	1.0	57
9	Engineered Fusion Proteins for Efficient Protein Secretion and Purification of a Human Growth Factor from the Green Microalga <i>Chlamydomonas reinhardtii</i> . <i>ACS Synthetic Biology</i> , 2018, 7, 2547-2557.	1.9	53
10	High cell density cultivation enables efficient and sustainable recombinant polyamine production in the microalga <i>Chlamydomonas reinhardtii</i> . <i>Bioresource Technology</i> , 2021, 323, 124542.	4.8	45
11	Investigating the dynamics of recombinant protein secretion from a microalgal host. <i>Journal of Biotechnology</i> , 2015, 215, 62-71.	1.9	38
12	Rational Promoter Engineering Enables Robust Terpene Production in Microalgae. <i>ACS Synthetic Biology</i> , 2021, 10, 847-856.	1.9	38
13	Intronsserter, an advanced online tool for design of intron containing transgenes. <i>Algal Research</i> , 2019, 42, 101588.	2.4	32
14	Characterization of the Brassica napus Flavonol Synthase Gene Family Reveals Bifunctional Flavonol Synthases. <i>Frontiers in Plant Science</i> , 2021, 12, 733762.	1.7	24
15	Engineering a powerful green cell factory for robust photoautotrophic diterpenoid production. <i>Metabolic Engineering</i> , 2022, 73, 82-90.	3.6	24
16	OpenTox predictive toxicology framework: toxicological ontology and semantic media wiki-based OpenToxipedia. <i>Journal of Biomedical Semantics</i> , 2012, 3, S7.	0.9	21
17	Engineering astaxanthin accumulation reduces photoinhibition and increases biomass productivity under high light in <i>Chlamydomonas reinhardtii</i> . , 2022, 15, .		17
18	Advanced pathway engineering for phototrophic putrescine production. <i>Plant Biotechnology Journal</i> , 2022, 20, 1968-1982.	4.1	13

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19	Knock-Down of the IFR1 Protein Perturbs the Homeostasis of Reactive Electrophile Species and Boosts Photosynthetic Hydrogen Production in <i>Chlamydomonas reinhardtii</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1347.	1.7	10
20	A gene regulatory network for antenna size control in carbon dioxide-deprived <i>Chlamydomonas reinhardtii</i> cells. <i>Plant Cell</i> , 2021, 33, 1303-1318.	3.1	10
21	A novel, robust and mating-competent <i>Chlamydomonas reinhardtii</i> strain with an enhanced transgene expression capacity for algal biotechnology. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 31, e00644.	2.1	10
22	The Spermidine Synthase Gene SPD1: A Novel Auxotrophic Marker for <i>Chlamydomonas reinhardtii</i> Designed by Enhanced CRISPR/Cas9 Gene Editing. <i>Cells</i> , 2022, 11, 837.	1.8	9
23	Type II flavoprotein monooxygenase PsFMO_A from the bacterium <i>Pimelobacter</i> sp. Bb-B catalyzes enantioselective Baeyer-Villiger oxidations with a relaxed cofactor specificity. <i>Journal of Biotechnology</i> , 2019, 294, 81-87.	1.9	5