Kyle J Lauersen

List of Publications by Year
in descending order

34	1,882	304602	377752
papers	citations	22 h-index	34 g-index

41	41	41	1496
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Birth of a Photosynthetic Chassis: A MoClo Toolkit Enabling Synthetic Biology in the Microalga Chlamydomonas reinhardtii. ACS Synthetic Biology, 2018, 7, 2074-2086.	1.9	225
2	Intron-containing algal transgenes mediate efficient recombinant gene expression in the green microalga Chlamydomonas reinhardtii. Nucleic Acids Research, 2018, 46, 6909-6919.	6.5	136
3	Tailored carbon partitioning for phototrophic production of (E)-Î±-bisabolene from the green microalga Chlamydomonas reinhardtii. Metabolic Engineering, 2018, 45, 211-222.	3.6	125
4	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
5	Efficient phototrophic production of a high-value sesquiterpenoid from the eukaryotic microalga Chlamydomonas reinhardtii. Metabolic Engineering, 2016, 38, 331-343.	3.6	120
6	Turning a green alga red: engineering astaxanthin biosynthesis by intragenic pseudogene revival in Chlamydomonas reinhardtii. Plant Biotechnology Journal, 2020, 18, 2053-2067.	4.1	103
7	Phototrophic production of heterologous diterpenoids and a hydroxy-functionalized derivative from Chlamydomonas reinhardtii. Metabolic Engineering, 2018, 49, 116-127.	3.6	91
8	Synthetic metabolic pathways for photobiological conversion of CO2 into hydrocarbon fuel. Metabolic Engineering, 2018, 49, 201-211.	3.6	90
9	Efficient recombinant protein production and secretion from nuclear transgenes in Chlamydomonas reinhardtii. Journal of Biotechnology, 2013, 167, 101-110.	1.9	87
10	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
11	Eukaryotic microalgae as hosts for light-driven heterologous isoprenoid production. Planta, 2019, 249, 155-180.	1.6	72
12	Introns mediate post-transcriptional enhancement of nuclear gene expression in the green microalga Chlamydomonas reinhardtii. PLoS Genetics, 2020, 16, e1008944.	1.5	62
13	Patchoulol Production with Metabolically Engineered Corynebacterium glutamicum. Genes, 2018, 9, 219.	1.0	57
14	Peroxisomal microbodies are at the crossroads of acetate assimilation in the green microalga Chlamydomonas reinhardtii. Algal Research, 2016, 16, 266-274.	2.4	54
15	Engineered Fusion Proteins for Efficient Protein Secretion and Purification of a Human Growth Factor from the Green Microalga Chlamydomonas reinhardtii. ACS Synthetic Biology, 2018, 7, 2547-2557.	1.9	53
16	Large-scale genome sequencing reveals the driving forces of viruses in microalgal evolution. Cell Host and Microbe, 2021, 29, 250-266.e8.	5.1	48
17	Expression and characterization of an antifreeze protein from the perennial rye grass, Lolium perenne. Cryobiology, 2011, 62, 194-201.	0.3	45
18	Investigating the dynamics of recombinant protein secretion from a microalgal host. Journal of Biotechnology, 2015, 215, 62-71.	1.9	38

#	Article	IF	Citations
19	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
20	Intronserter, an advanced online tool for design of intron containing transgenes. Algal Research, 2019, 42, 101588.	2.4	32
21	Gene Delivery Technologies with Applications in Microalgal Genetic Engineering. Biology, 2021, 10, 265.	1.3	26
22	Green algal hydrocarbon metabolism is an exceptional source of sustainable chemicals. Current Opinion in Biotechnology, 2020, 61, 28-37.	3.3	25
23	Continuous extraction and concentration of secreted metabolites from engineered microbes using membrane technology. Green Chemistry, 2022, 24, 5479-5489.	4.6	18
24	Engineering Biocatalytic Solar Fuel Production: The PHOTOFUEL Consortium. Trends in Biotechnology, 2021, 39, 323-327.	4.9	17
25	Characterization of the GPR1/FUN34/YaaH protein family in the green microalga Chlamydomonas suggests their role as intracellular membrane acetate channels. Plant Direct, 2019, 3, e00148.	0.8	16
26	Photocatalytic Production of Bisabolene from Green Microalgae Mutant: Process Analysis and Kinetic Modeling. Industrial & Engineering Chemistry Research, 2018, 57, 10336-10344.	1.8	14
27	Emerging Technologies to Enable Sustainable Controlled Environment Agriculture in the Extreme Environments of Middle East-North Africa Coastal Regions. Frontiers in Plant Science, 2020, 11, 801.	1.7	14
28	Efflux Transportersâ€™ Engineering and Their Application in Microbial Production of Heterologous Metabolites. ACS Synthetic Biology, 2021, 10, 646-669.	1.9	14
29	Combinatorial Engineering Enables Photoautotrophic Growth in High Cell Density Phosphite-Buffered Media to Support Engineered Chlamydomonas reinhardtii Bio-Production Concepts. Frontiers in Microbiology, 2022, 13, .	1.5	14
30	Subcellular Localizations of Catalase and Exogenously Added Fatty Acid in Chlamydomonas reinhardtii. Cells, 2021, 10, 1940.	1.8	10
31	Alternative glycosylation controls endoplasmic reticulum dynamics and tubular extension in mammalian cells. Science Advances, 2021, 7, .	4.7	8
32	Biocompatible fluorocarbon liquid underlays for in situ extraction of isoprenoids from microbial cultures. RSC Advances, 2022, 12, 16632-16639.	1.7	8
33	Intron-mediated enhancement of transgene expression in the oleaginous diatom Fistulifera solaris towards bisabolene production. Algal Research, 2021, 57, 102345.	2.4	7
34	A New Approach to the Study of Plastidial Stress Granules: The Integrated Use of Arabidopsis thaliana and Chlamydomonas reinhardtii as Model Organisms. Plants, 2022, 11, 1467.	1.6	2