Martin C Jonikas

List of Publications by Year
in descending order

35 papers	3,660 citations	218381 26 h-index	377514 34 g-index
49 all docs	49 docs citations	49 times ranked	4341 citing authors

#	Article	IF	Citations
1	Systematic characterization of gene function in the photosynthetic alga Chlamydomonas reinhardtii. Nature Genetics, 2022, 54, 705-714.	9.4	42
2	Modelling the pyrenoid-based CO2-concentrating mechanism provides insights into its operating principles and a roadmap for its engineering into crops. Nature Plants, 2022, 8, 583-595.	4.7	39
3	<i>Arabidopsis</i> bZIP11 Is a Susceptibility Factor During <i>Pseudomonas syringae</i> Infection. Molecular Plant-Microbe Interactions, 2021, 34, 439-447.	1.4	7
4	The structural basis of Rubisco phase separation in the pyrenoid. Nature Plants, 2020, 6, 1480-1490.	4.7	68
5	Coexpressed subunits of dual genetic origin define a conserved supercomplex mediating essential protein import into chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 32739-32749.	3.3	30
6	Assembly of the algal CO ₂ -fixing organelle, the pyrenoid, is guided by a Rubisco-binding motif. Science Advances, 2020, 6, .	4.7	55
7	Prospects for Engineering Biophysical CO₂Concentrating Mechanisms into Land Plants to Enhance Yields. Annual Review of Plant Biology, 2020, 71, 461-485.	8.6	98
8	Rigidity enhances a magic-number effect in polymer phase separation. Nature Communications, 2020, 11, 1561.	5.8	42
9	The pyrenoid. Current Biology, 2020, 30, R456-R458.	1.8	14
10	Increasing the uptake of carbon dioxide. ELife, 2020, 9, .	2.8	2
11	A Rubisco-binding protein is required for normal pyrenoid number and starch sheath morphology in <i>Chlamydomonas reinhardtii</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18445-18454.	3.3	60
12	Phase separation in biology and diseaseâ€"a symposium report. Annals of the New York Academy of Sciences, 2019, 1452, 3-11.	1.8	14
13	A genome-wide algal mutant library and functional screen identifies genes required for eukaryotic photosynthesis. Nature Genetics, 2019, 51, 627-635.	9.4	234
14	The Mars1 kinase confers photoprotection through signaling in the chloroplast unfolded protein response. ELife, 2019, 8, .	2.8	42
15	Effects of microcompartmentation on flux distribution and metabolic pools in Chlamydomonas reinhardtii chloroplasts. ELife, 2018, 7, .	2.8	37
16	The Eukaryotic CO2-Concentrating Organelle Is Liquid-like and Exhibits Dynamic Reorganization. Cell, 2017, 171, 148-162.e19.	13.5	298
17	A Spatial Interactome Reveals the Protein Organization of the Algal CO2-Concentrating Mechanism. Cell, 2017, 171, 133-147.e14.	13.5	245
18	High-Throughput Genetics Strategies for Identifying New Components of Lipid Metabolism in the Green Alga Chlamydomonas reinhardtii. Sub-Cellular Biochemistry, 2016, 86, 223-247.	1.0	6

#	Article	IF	Citations
19	Introducing an algal carbonâ€concentrating mechanism into higher plants: location and incorporation of key components. Plant Biotechnology Journal, 2016, 14, 1302-1315.	4.1	96
20	A repeat protein links Rubisco to form the eukaryotic carbon-concentrating organelle. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5958-5963.	3.3	196
21	Regulation and Levels of the Thylakoid K⁺/H⁺Antiporter KEA3 Shape the Dynamic Response of Photosynthesis in Fluctuating Light. Plant and Cell Physiology, 2016, 57, pcw085.	1.5	70
22	An Indexed, Mapped Mutant Library Enables Reverse Genetics Studies of Biological Processes in <i>Chlamydomonas reinhardtii</i>. Plant Cell, 2016, 28, 367-387.	3.1	336
23	Molecular techniques to interrogate and edit the <i>Chlamydomonas</i> nuclear genome. Plant Journal, 2015, 82, 393-412.	2.8	133
24	Critical role ofChlamydomonas reinhardtiiferredoxin-5 in maintaining membrane structure and dark metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14978-14983.	3.3	58
25	A fluorescenceâ€activated cell sortingâ€based strategy for rapid isolation of highâ€lipid <i><scp>C</scp>hlamydomonas</i> mutants. Plant Journal, 2015, 81, 147-159.	2.8	93
26	Alternative Acetate Production Pathways in<i>Chlamydomonas reinhardtii</i>during Dark Anoxia and the Dominant Role of Chloroplasts in Fermentative Acetate Production. Plant Cell, 2014, 26, 4499-4518.	3.1	44
27	Ion antiport accelerates photosynthetic acclimation in fluctuating light environments. Nature Communications, 2014, 5, 5439.	5.8	205
28	High-Throughput Genotyping of Green Algal Mutants Reveals Random Distribution of Mutagenic Insertion Sites and Endonucleolytic Cleavage of Transforming DNA. Plant Cell, 2014, 26, 1398-1409.	3.1	192
29	Waking sleeping algal cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15610-15611.	3.3	4
30	Actin Is Required for IFT Regulation in Chlamydomonas reinhardtii. Current Biology, 2014, 24, 2025-2032.	1.8	66
31	Automated identification of pathways from quantitative genetic interaction data. Molecular Systems Biology, 2010, 6, 379.	3.2	70
32	J Domain Co-chaperone Specificity Defines the Role of BiP during Protein Translocation. Journal of Biological Chemistry, 2010, 285, 22484-22494.	1.6	43
33	Comprehensive Characterization of Genes Required for Protein Folding in the Endoplasmic Reticulum. Science, 2009, 323, 1693-1697.	6.0	646
34	Identification of yeast proteins necessary for cell-surface function of a potassium channel. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18079-18084.	3.3	53
35	A Genome-Wide, Mapped Algal Mutant Library Enables High-Throughput Genetic Studies in a Photosynthetic Eukaryote. SSRN Electronic Journal, 0, , .	0.4	0