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List of Publications by Year
in descending order

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44 papers	2,803 citations	201674 27 h-index	254184 43 g-index
45 all docs	45 docs citations	45 times ranked	2896 citing authors

#	Article	IF	Citations
1	Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. Nature, 2012, 492, 59-65.	27.8	377
2	Genomic Footprints of a Cryptic Plastid Endosymbiosis in Diatoms. Science, 2009, 324, 1724-1726.	12.6	370
3	Microalgae as bioreactors for bioplastic production. Microbial Cell Factories, 2011, 10, 81.	4.0	192
4	Using a marine microalga as a chassis for polyethylene terephthalate (PET) degradation. Microbial Cell Factories, 2019, 18, 171.	4.0	164
5	Algae as Protein Factories: Expression of a Human Antibody and the Respective Antigen in the Diatom Phaeodactylum tricornutum. PLoS ONE, 2011, 6, e28424.	2.5	146
6	An Unusual ERAD-Like Complex Is Targeted to the Apicoplast ofPlasmodium falciparum. Eukaryotic Cell, 2009, 8, 1134-1145.	3.4	136
7	An engineered diatom acting like a plasma cell secreting human IgG antibodies with high efficiency. Microbial Cell Factories, 2012, 11, 126.	4.0	110
8	ERAD-Derived Preprotein Transport across the Second Outermost Plastid Membrane of Diatoms. Molecular Biology and Evolution, 2009, 26, 1781-1790.	8.9	98
9	The cyanobacterial endosymbiont of the unicellular algae Rhopalodia gibba shows reductive genome evolution. BMC Evolutionary Biology, 2008, 8, 30.	3.2	82
10	Filling the Gap, Evolutionarily Conserved Omp85 in Plastids of Chromalveolates. Journal of Biological Chemistry, 2010, 285, 6848-6856.	3.4	73
11	Optimizing CRISPR/Cas9 for the Diatom Phaeodactylum tricornutum. Frontiers in Plant Science, 2018, 9, 740.	3.6	73
12	Marine Proteobacteria metabolize glycolate via the Î²-hydroxyaspartate cycle. Nature, 2019, 575, 500-504.	27.8	71
13	General Protein Diffusion Barriers Create Compartments within Bacterial Cells. Cell, 2012, 151, 1270-1282.	28.9	68
14	ERAD Components in Organisms with Complex Red Plastids Suggest Recruitment of a Preexisting Protein Transport Pathway for the Periplastid Membrane. Genome Biology and Evolution, 2011, 3, 140-150.	2.5	59
15	Distribution of the SELMA Translocon in Secondary Plastids of Red Algal Origin and Predicted Uncoupling of Ubiquitin-Dependent Translocation from Degradation. Eukaryotic Cell, 2012, 11, 1472-1481.	3.4	58
16	Nature of the Periplastidial Pathway of Starch Synthesis in the Cryptophyte Guillardia theta. Eukaryotic Cell, 2006, 5, 954-963.	3.4	56
17	Localization and Evolution of Putative Triose Phosphate Translocators in the DiatomPhaeodactylum tricornutum. Genome Biology and Evolution, 2015, 7, 2955-2969.	2.5	53
18	A Non-photosynthetic Diatom Reveals Early Steps of Reductive Evolution in Plastids. Molecular Biology and Evolution, 2017, 34, 2355-2366.	8.9	52

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19	From hybridomas to a robust microalgal-based production platform: molecular design of a diatom secreting monoclonal antibodies directed against the Marburg virus nucleoprotein. Microbial Cell Factories, 2017, 16, 131.	4.0	45
20	Addressing various compartments of the diatom model organism Phaeodactylum tricornutum via sub-cellular marker proteins. Algal Research, 2016, 20, 249-257.	4.6	43
21	New mechanistic insights into pre-protein transport across the second outermost plastid membrane of diatoms. Molecular Microbiology, 2010, 76, 793-801.	2.5	41
22	Biochemical Characterization of Human Anti-Hepatitis B Monoclonal Antibody Produced in the Microalgae Phaeodactylum tricornutum. PLoS ONE, 2015, 10, e0139282.	2.5	40
23	Algaâ€Made Antiâ€Hepatitis B Antibody Binds to Human FcÎ³ Receptors. Biotechnology Journal, 2018, 13, e1700496.	3.5	39
24	Microalgae as Solar-Powered Protein Factories. Advances in Experimental Medicine and Biology, 2016, 896, 241-262.	1.6	33
25	Evidence for glycoprotein transport into complex plastids. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10860-10865.	7.1	32
26	Protein import into complex plastids: Cellular organization of higher complexity. European Journal of Cell Biology, 2015, 94, 340-348.	3.6	32
27	Omp85 in eukaryotic systems: one protein family with distinct functions. Biological Chemistry, 2011, 392, 21-7.	2.5	31
28	The Central Vacuole of the Diatom Phaeodactylum tricornutum : Identification of New Vacuolar Membrane Proteins and of a Functional Di-leucine-based Targeting Motif. Protist, 2017, 168, 271-282.	1.5	28
29	Molecular Chaperones Encoded by a Reduced Nucleus: The Cryptomonad Nucleomorph. Journal of Molecular Evolution, 2001, 52, 490-501.	1.8	27
30	The periplastidal compartment: a naturally minimized eukaryotic cytoplasm. Current Opinion in Microbiology, 2014, 22, 88-93.	5.1	27
31	Mobilization and Cellular Distribution of Phosphate in the Diatom Phaeodactylum tricornutum. Frontiers in Plant Science, 2020, 11, 579.	3.6	27
32	Genomic and Proteomic Evidence for the Presence of a Peroxisome in the Apicomplexan Parasite Toxoplasma gondii and Other Coccidia. Genome Biology and Evolution, 2017, 9, 3108-3121.	2.5	21
33	Nâ€terminal lysines are essential for protein translocation via a modified <scp>ERAD</scp> system in complex plastids. Molecular Microbiology, 2015, 96, 609-620.	2.5	16
34	Molecular and Biochemical Analysis of Periplastidial Starch Metabolism in the Cryptophyte Guillardia theta. Eukaryotic Cell, 2006, 5, 964-971.	3.4	15
35	Proteinâ€“protein interactions indicate composition of a 480 kDa SELMA complex in the second outermost membrane of diatom complex plastids. Molecular Microbiology, 2016, 100, 76-89.	2.5	14
36	Solution structure of a zinc substituted eukaryotic rubredoxin from the cryptomonad alga Guillardia theta. Protein Science, 2000, 9, 1474-1486.	7.6	10

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37	Cellular compartmentation follows rules: The Schnepf theorem, its consequences and exceptions. BioEssays, 2017, 39, 1700030.	2.5	10
38	Ironâ€“Sulfur Cluster Biosynthesis in Algae with Complex Plastids. Genome Biology and Evolution, 2018, 10, 2061-2071.	2.5	9
39	Lensless digital holographic microscopy as an efficient method to monitor enzymatic plastic degradation. Marine Pollution Bulletin, 2021, 163, 111950.	5.0	9
40	Specific acclimations to phosphorus limitation in the marine diatom Phaeodactylum tricornutum. Biological Chemistry, 2020, 401, 1495-1501.	2.5	6
41	The Known, the New, and a Possible Surprise: A Re-Evaluation of the Nucleomorph-Encoded Proteome of Cryptophytes. Genome Biology and Evolution, 2019, 11, 1618-1629.	2.5	5
42	The iron-sulfur scaffold protein HCF101 unveils the complexity of organellar evolution in SAR, Haptista and Cryptista. Bmc Ecology and Evolution, 2021, 21, 46.	1.6	3
43	Explaining the Origin of Threeâ€Membraneâ€Bound Plastids in Dinoflagellates and Euglenophytes: Kleptoplastidy via Myzocytosis?. BioEssays, 2018, 40, 1700224.	2.5	1
44	Engineering microalgae as a whole cell catalyst for PET degradation. Methods in Enzymology, 2021, 648, 435-455.	1.0	1