Benedict M Long

List of Publications by Year
in descending order

30 papers	3,028 citations	331670 21 h-index	477307 29 g-index
33 all docs	33 docs citations	33 times ranked	3782 citing authors

#	Article	IF	Citations
1	Advances in understanding the cyanobacterial CO2-concentrating-mechanism (CCM): functional components, Ci transporters, diversity, genetic regulation and prospects for engineering into plants. Journal of Experimental Botany, 2008, 59, 1441-1461.	4.8	545
2	Functions, Compositions, and Evolution of the Two Types of Carboxysomes: Polyhedral Microcompartments That Facilitate CO ₂ Fixation in Cyanobacteria and Some Proteobacteria. Microbiology and Molecular Biology Reviews, 2013, 77, 357-379.	6.6	346
3	The environmental plasticity and ecological genomics of the cyanobacterial CO2 concentrating mechanism. Journal of Experimental Botany, 2006, 57, 249-265.	4.8	276
4	Cellular Microcystin Content in N-Limited Microcystis aeruginosa Can Be Predicted from Growth Rate. Applied and Environmental Microbiology, 2001, 67, 278-283.	3.1	265
5	Carboxysome encapsulation of the CO2-fixing enzyme Rubisco in tobacco chloroplasts. Nature Communications, 2018, 9, 3570.	12.8	196
6	Rubisco condensate formation by CcmM in Î²-carboxysome biogenesis. Nature, 2019, 566, 131-135.	27.8	185
7	Analysis of Carboxysomes from Synechococcus PCC7942 Reveals Multiple Rubisco Complexes with Carboxysomal Proteins CcmM and CcaA. Journal of Biological Chemistry, 2007, 282, 29323-29335.	3.4	173
8	Functional Cyanobacterial<i>Î²</i>-Carboxysomes Have an Absolute Requirement for Both Long and Short Forms of the CcmM Protein Â Â. Plant Physiology, 2010, 153, 285-293.	4.8	103
9	Progress and challenges of engineering a biophysical CO2-concentrating mechanism into higher plants. Journal of Experimental Botany, 2017, 68, 3717-3737.	4.8	101
10	Cyanobacterial CO2-concentrating mechanism components: function and prospects for plant metabolic engineering. Current Opinion in Plant Biology, 2016, 31, 1-8.	7.1	90
11	Leafâ€level photosynthetic capacity in lowland Amazonian and highâ€elevation Andean tropical moist forests of Peru. New Phytologist, 2017, 214, 1002-1018.	7.3	89
12	Strong thermal acclimation of photosynthesis in tropical and temperate wetâ€forest tree species: the importance of altered Rubisco content. Global Change Biology, 2017, 23, 2783-2800.	9.5	84
13	Comparing the in Vivo Function of Î±-Carboxysomes and Î²-Carboxysomes in Two Model Cyanobacteria. Plant Physiology, 2014, 165, 398-411.	4.8	81
14	Structural Determinants of the Outer Shell of Î²-Carboxysomes in Synechococcus elongatus PCC 7942: Roles for CcmK2, K3-K4, CcmO, and CcmL. PLoS ONE, 2012, 7, e43871.	2.5	78
15	Cyanobacterial Carboxysomes: Microcompartments that Facilitate CO2 Fixation. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 300-307.	1.0	78
16	Over-expression of the Î²-carboxysomal CcmM protein in Synechococcus PCC7942 reveals a tight co-regulation of carboxysomal carbonic anhydrase (CcaA) and M58 content. Photosynthesis Research, 2011, 109, 33-45.	2.9	60
17	Microcystin production by Microcystis aeruginosa: Direct regulation by multiple environmental factors. Harmful Algae, 2011, 12, 95-104.	4.8	44
18	Proteomic assessment of an established technique for carboxysome enrichment from Synechococcus PCC7942. Canadian Journal of Botany, 2005, 83, 746-757.	1.1	39

#	Article	IF	Citations
19	Rubisco proton production can drive the elevation of CO ₂ within condensates and carboxysomes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	38
20	Identification and characterization of a carboxysomal Î³-carbonic anhydrase from the cyanobacterium Nostoc sp. PCC 7120. Photosynthesis Research, 2014, 121, 135-150.	2.9	33
21	Incorporation of Functional Rubisco Activases into Engineered Carboxysomes to Enhance Carbon Fixation. ACS Synthetic Biology, 2022, 11, 154-161.	3.8	33
22	Changes in amino acid content of an algal feed species (Navicula sp.) and their effect on growth and survival of juvenile abalone (Haliotis rubra). Journal of Applied Phycology, 2003, 15, 201-207.	2.8	22
23	Amino acids in haemolymph, single fibres and whole muscle from the claw of freshwater crayfish acclimated to different osmotic environments. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 127, 155-165.	1.8	18
24	Evidence that sulfur metabolism plays a role in microcystin production by Microcystis aeruginosa. Harmful Algae, 2010, 9, 74-81.	4.8	14
25	Engineered Accumulation of Bicarbonate in Plant Chloroplasts: Known Knowns and Known Unknowns. Frontiers in Plant Science, 2021, 12, 727118.	3.6	13
26	Contributions of photosynthetic and nonâ€photosynthetic cell types to leaf respiration in <scp><i>V</i></scp><i>icia faba</i>â€…<scp>L</scp>. and their responses to growth temperature. Plant, Cell and Environment, 2015, 38, 2263-2276.	5.7	7
27	Setting sub-organellar sights: accurate targeting of multi-transmembrane-domain proteins to specific chloroplast membranes. Journal of Experimental Botany, 2017, 68, 5013-5016.	4.8	6
28	DABs accumulate bicarbonate. Nature Microbiology, 2019, 4, 2029-2030.	13.3	4
29	Chapter 11 Engineering Photosynthetic CO2 Assimilation to Develop New Crop Varieties to Cope with Future Climates. Advances in Photosynthesis and Respiration, 2021, , 333-354.	1.0	2
30	Sustained Photosynthesis in Tobacco Leaves by Fast CO₂-Fixing Enzymes Encapsulated in Micro-Compartments. SSRN Electronic Journal, 0, , .	0.4	0