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	Incorporation of Functional Rubisco Activases into Engineered Carboxysomes to Enhance Carbon Fixation. ACS Synthetic Biology, 2022, 11, 154-161.	3.8	33
2	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
3	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
4	Engineered Accumulation of Bicarbonate in Plant Chloroplasts: Known Knowns and Known Unknowns. Frontiers in Plant Science, 2021, 12, 727118.	3.6	13
5	Rubisco condensate formation by CcmM in Î²-carboxysome biogenesis. Nature, 2019, 566, 131-135.	27.8	185
6	DABs accumulate bicarbonate. Nature Microbiology, 2019, 4, 2029-2030.	13.3	4
7	Carboxysome encapsulation of the CO2-fixing enzyme Rubisco in tobacco chloroplasts. Nature Communications, 2018, 9, 3570.	12.8	196
8	Progress and challenges of engineering a biophysical CO2-concentrating mechanism into higher plants. Journal of Experimental Botany, 2017, 68, 3717-3737.	4.8	101
9	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
10	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
11	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
12	Cyanobacterial CO2-concentrating mechanism components: function and prospects for plant metabolic engineering. Current Opinion in Plant Biology, 2016, 31, 1-8.	7.1	90
13	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
14	Comparing the in Vivo Function of Î±-Carboxysomes and Î²-Carboxysomes in Two Model Cyanobacteria. Plant Physiology, 2014, 165, 398-411.	4.8	81
15	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
16	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
17	Cyanobacterial Carboxysomes: Microcompartments that Facilitate CO2 Fixation. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 300-307.	1.0	78
18	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

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19	Microcystin production by Microcystis aeruginosa: Direct regulation by multiple environmental factors. Harmful Algae, 2011, 12, 95-104.	4.8	44
20	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
21	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
22	Evidence that sulfur metabolism plays a role in microcystin production by Microcystis aeruginosa. Harmful Algae, 2010, 9, 74-81.	4.8	14
23	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
24	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
25	The environmental plasticity and ecological genomics of the cyanobacterial CO2 concentrating mechanism. Journal of Experimental Botany, 2006, 57, 249-265.	4.8	276
26	Proteomic assessment of an established technique for carboxysome enrichment from Synechococcus PCC7942. Canadian Journal of Botany, 2005, 83, 746-757.	1.1	39
27	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
28	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
29	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
30	Sustained Photosynthesis in Tobacco Leaves by Fast CO₂-Fixing Enzymes Encapsulated in Micro-Compartments. SSRN Electronic Journal, 0, , .	0.4	0