

Benjamin D Rae

List of Publications by Year in descending order

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10
papers

1,027
citations

1040056

9
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

1217
citing authors

#	ARTICLE	IF	CITATIONS
1	Functions, Compositions, and Evolution of the Two Types of Carboxysomes: Polyhedral Microcompartments That Facilitate CO ₂ Fixation in Cyanobacteria and Some Proteobacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2013, 77, 357-379.	6.6	346
2	Carboxysome encapsulation of the CO ₂ -fixing enzyme Rubisco in tobacco chloroplasts. <i>Nature Communications</i> , 2018, 9, 3570.	12.8	196
3	Progress and challenges of engineering a biophysical CO ₂ -concentrating mechanism into higher plants. <i>Journal of Experimental Botany</i> , 2017, 68, 3717-3737.	4.8	101
4	Cyanobacterial CO ₂ -concentrating mechanism components: function and prospects for plant metabolic engineering. <i>Current Opinion in Plant Biology</i> , 2016, 31, 1-8.	7.1	90
5	Structural Determinants of the Outer Shell of $\hat{\text{I}}^2$ -Carboxysomes in <i>Synechococcus elongatus</i> PCC 7942: Roles for CcmK2, K3-K4, CcmO, and CcmL. <i>PLoS ONE</i> , 2012, 7, e43871.	2.5	78
6	Cyanobacterial Carboxysomes: Microcompartments that Facilitate CO ₂ Fixation. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2013, 23, 300-307.	1.0	78
7	Over-expression of the $\hat{\text{I}}^2$ -carboxysomal CcmM protein in <i>Synechococcus</i> PCC7942 reveals a tight co-regulation of carboxysomal carbonic anhydrase (CcaA) and M58 content. <i>Photosynthesis Research</i> , 2011, 109, 33-45.	2.9	60
8	The CO ₂ -concentrating mechanism of <i>Synechococcus</i> WH5701 is composed of native and horizontally-acquired components. <i>Photosynthesis Research</i> , 2011, 109, 59-72.	2.9	38
9	Environmental carbonate chemistry selects for phenotype of recently isolated strains of <i>Emiliana huxleyi</i> . <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 127, 28-40.	1.4	34
10	Setting sub-organellar sights: accurate targeting of multi-transmembrane-domain proteins to specific chloroplast membranes. <i>Journal of Experimental Botany</i> , 2017, 68, 5013-5016.	4.8	6