Udo Gowik

List of Publications by Year
in descending order

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40 papers	5,743 citations	201385 27 h-index	276539 41 g-index
46 all docs	46 docs citations	46 times ranked	6847 citing authors

#	Article	IF	Citations
1	Dynamic changes of genome sizes and gradual gain of cellâ€specific distribution of C₄ enzymes during C₄ evolution in genus Flaveria. Plant Genome, 2021, 14, e20095.	1.6	14
2	The coordination of major events in C4 photosynthesis evolution in the genus Flaveria. Scientific Reports, 2021, 11, 15618.	1.6	12
3	The C₄Ppc promoters of many C₄ grass species share a common regulatory mechanism for gene expression in the mesophyll cell. Plant Journal, 2020, 101, 204-216.	2.8	21
4	Metabolic Labeling of RNAs Uncovers Hidden Features and Dynamics of the Arabidopsis Transcriptome. Plant Cell, 2020, 32, 871-887.	3.1	38
5	Reporterâ€based forward genetic screen to identify bundle sheath anatomy mutants in A.Âthaliana. Plant Journal, 2019, 97, 984-995.	2.8	8
6	Efficient 2-phosphoglycolate degradation is required to maintain carbon assimilation and allocation in the C4 plantFlaveria bidentis. Journal of Experimental Botany, 2019, 70, 575-587.	2.4	33
7	Expression of SULTR2;2, encoding a low-affinity sulphur transporter, in the Arabidopsis bundle sheath and vein cells is mediated by a positive regulator. Journal of Experimental Botany, 2018, 69, 4897-4906.	2.4	17
8	On the Evolutionary Origin of CAM Photosynthesis. Plant Physiology, 2017, 174, 473-477.	2.3	84
9	A MEM1-like motif directs mesophyll cell-specific expression of the gene encoding the C₄carbonic anhydrase inFlaveria. Journal of Experimental Botany, 2017, 68, 311-320.	2.4	24
10	Photosynthesis in C₃â€“C₄intermediateMoricandiaspecies. Journal of Experimental Botany, 2017, 68, 191-206.	2.4	58
11	De novo Transcriptome Assembly and Comparison of C3, C3-C4, and C4 Species of Tribe Salsoleae (Chenopodiaceae). Frontiers in Plant Science, 2017, 8, 1939.	1.7	19
12	C₃cotyledons are followed by C₄leaves: intra-individual transcriptome analysis ofSalsola soda(Chenopodiaceae). Journal of Experimental Botany, 2017, 68, 161-176.	2.4	29
13	Glycine decarboxylase in C3, C4 and C3â€“C4 intermediate species. Current Opinion in Plant Biology, 2016, 31, 29-35.	3.5	44
14	Most photorespiratory genes are preferentially expressed in the bundle sheath cells of the C₄grassSorghum bicolor. Journal of Experimental Botany, 2016, 67, 3053-3064.	2.4	47
15	Photorespiration connects C₃and C₄photosynthesis. Journal of Experimental Botany, 2016, 67, 2953-2962.	2.4	104
16	RNA-Seq based phylogeny recapitulates previous phylogeny of the genus Flaveria (Asteraceae) with some modifications. BMC Evolutionary Biology, 2015, 15, 116.	3.2	46
17	The role of photorespiration during the evolution of C4 photosynthesis in the genus Flaveria. ELife, 2014, 3, e02478.	2.8	182
18	Evolution of the Phosphoenolpyruvate Carboxylase Protein Kinase Family in C3 and C4 ÂFlaveria spp. Â Â. Plant Physiology, 2014, 165, 1076-1091.	2.3	23

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19	Evolution of GOLDEN2-LIKE gene function in C3 and C4 plants. Planta, 2013, 237, 481-495.	1.6	98
20	Predicting C4 Photosynthesis Evolution: Modular, Individually Adaptive Steps on a Mount Fuji Fitness Landscape. Cell, 2013, 153, 1579-1588.	13.5	173
21	Evolution of C4 Photosynthesis in the Genus Flaveria: Establishment of a Photorespiratory CO2 Pump. Plant Cell, 2013, 25, 2522-2535.	3.1	84
22	RNA-Seq Assembly â€“ Are We There Yet?. Frontiers in Plant Science, 2012, 3, 220.	1.7	112
23	Regulation of the Photorespiratory GLDPA Gene in C4 ÂFlaveria: An Intricate Interplay of Transcriptional and Posttranscriptional Processes. Plant Cell, 2012, 24, 137-151.	3.1	40
24	Evolution of C4 Photosynthesis in the GenusFlaveria: How Many and Which Genes Does It Take to Make C4?. Plant Cell, 2011, 23, 2087-2105.	3.1	185
25	A plastidial sodium-dependent pyruvate transporter. Nature, 2011, 476, 472-475.	13.7	215
26	An mRNA Blueprint for C4 Photosynthesis Derived from Comparative Transcriptomics of Closely Related C3 and C4 Species Â Â. Plant Physiology, 2011, 155, 142-156.	2.3	222
27	The Path from C3 to C4 Photosynthesis. Plant Physiology, 2011, 155, 56-63.	2.3	227
28	Evolution of C4 Photosynthesisâ€”Looking for the Master Switch. Plant Physiology, 2010, 154, 598-601.	2.3	43
29	Agrobacterium tumefaciens-mediated transformation of Cleome gynandra L., a C4 dicotyledon that is closely related to Arabidopsis thaliana. Journal of Experimental Botany, 2010, 61, 1311-1319.	2.4	28
30	What can next generation sequencing do for you? Next generation sequencing as a valuable tool in plant research. Plant Biology, 2010, 12, 831-841.	1.8	140
31	Chapter 13 C4-Phosphoenolpyruvate Carboxylase. Advances in Photosynthesis and Respiration, 2010, , 257-275.	1.0	5
32	The Sorghum bicolor genome and the diversification of grasses. Nature, 2009, 457, 551-556.	13.7	2,642
33	Comparative genomic analysis of C4 photosynthetic pathway evolution in grasses. Genome Biology, 2009, 10, R68.	13.9	144
34	Evolution of C4phosphoenolpyruvate carboxylase in Flaveria: determinants for high tolerance towards the inhibitor L-malate. Plant, Cell and Environment, 2008, 31, 793-803.	2.8	29
35	The Gene for the P-Subunit of Glycine Decarboxylase from the C4 SpeciesFlaveria trinervia: Analysis of Transcriptional Control in TransgenicFlaveria bidentis(C4) and Arabidopsis (C3) Â Â. Plant Physiology, 2008, 146, 1773-1785.	2.3	47
36	Evolution and Function of acis-Regulatory Module for Mesophyll-Specific Gene Expression in the C4 DicotFlaveria trinervia. Plant Cell, 2007, 19, 3391-3402.	3.1	76

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37	Evolution of C4 phosphoenolpyruvate carboxylase in the genus Alternanthera: gene families and the enzymatic characteristics of the C4 isozyme and its orthologues in C3 and C3/C4 Alternantheras. Planta, 2006, 223, 359-368.	1.6	40
38	cis-Regulatory Elements for Mesophyll-Specific Gene Expression in the C4 Plant Flaveria trinervia, the Promoter of the C4 Phosphoenolpyruvate Carboxylase Gene[W]. Plant Cell, 2004, 16, 1077-1090.	3.1	222
39	Evolution of C4 Phosphoenolpyruvate Carboxylase. Genes and Proteins: a Case Study with the Genus Flaveria. Annals of Botany, 2004, 93, 13-23.	1.4	97
40	Molecular evolution of C4 phosphoenolpyruvate carboxylase in the genus Flaveria?a gradual increase from C3 to C4 characteristics. Planta, 2003, 217, 717-725.	1.6	60