Stephen P. Long

List of Publications by Year
in descending order

302 papers	44,788 citations	2101 100 h-index	2178 202 g-index
311 all docs	311 docs citations	311 times ranked	26353 citing authors

#	Article	IF	Citations
1	Drought imprints on crops can reduce yield loss: Nature's insights for food security. Food and Energy Security, 2022, 11, e332.	4.3	8
2	A hybrid kinetic and constraintâ€based model of leaf metabolism allows predictions of metabolic fluxes in different environments. Plant Journal, 2022, 109, 295-313.	5.7	9
3	Essential outcomes for COP26. Global Change Biology, 2022, 28, 1-3.	9.5	40
4	Faster than expected Rubisco deactivation in shade reduces cowpea photosynthetic potential in variable light conditions. Nature Plants, 2022, 8, 118-124.	9.3	24
5	BioCro II: a software package for modular crop growth simulations. In Silico Plants, 2022, 4, .	1.9	5
6	Perennial biomass crops on marginal land improve both regional climate and agricultural productivity. GCB Bioenergy, 2022, 14, 558-571.	5.6	11
7	Responsiveness of miscanthus and switchgrass yields to stand age and nitrogen fertilization: A metaâ€regression analysis. GCB Bioenergy, 2022, 14, 539-557.	5.6	7
8	Soybean-BioCro: a semi-mechanistic model of soybean growth. In Silico Plants, 2022, 4, .	1.9	3
9	Field-grown <i>ictB</i> tobacco transformants show no difference in photosynthetic efficiency for biomass relative to the wild type. Journal of Experimental Botany, 2022, 73, 4897-4907.	4.8	5
10	Optimizing Chemical-Free Pretreatment for Maximizing Oil/Lipid Recovery From Transgenic Bioenergy Crops and Its Rapid Analysis Using Time Domain-NMR. Frontiers in Energy Research, 2022, 10, .	2.3	8
11	Into the Shadows and Back into Sunlight: Photosynthesis in Fluctuating Light. Annual Review of Plant Biology, 2022, 73, 617-648.	18.7	66
12	Variation between rice accessions in photosynthetic induction in flag leaves and underlying mechanisms. Journal of Experimental Botany, 2021, 72, 1282-1294.	4.8	31
13	30 years of freeâ€air carbon dioxide enrichment (FACE): What have we learned about future crop productivity and its potential for adaptation?. Global Change Biology, 2021, 27, 27-49.	9.5	240
14	Managing flowering time in Miscanthus and sugarcane to facilitate intra- and intergeneric crosses. PLoS ONE, 2021, 16, e0240390.	2.5	10
15	Drivers of Natural Variation in Water-Use Efficiency Under Fluctuating Light Are Promising Targets for Improvement in Sorghum. Frontiers in Plant Science, 2021, 12, 627432.	3.6	24
16	Technologies to deliver food and climate security through agriculture. Nature Plants, 2021, 7, 250-255.	9.3	63
17	Can improved canopy light transmission ameliorate loss of photosynthetic efficiency in the shade? An investigation of natural variation in<i>Sorghum bicolor</i>. Journal of Experimental Botany, 2021, 72, 4965-4980.	4.8	16
18	Dynamics of photosynthetic induction and relaxation within the canopy of rice and two wild relatives. Food and Energy Security, 2021, 10, e286.	4.3	14

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19	Development and validation of timeâ€domain ¹Hâ€NMR relaxometry correlation for highâ€throughput phenotyping method for lipid contents of lignocellulosic feedstocks. GCB Bioenergy, 2021, 13, 1179-1190.	5.6	5
20	Technoâ€economic feasibility analysis of engineered energycaneâ€based biorefinery coâ€producing biodiesel and ethanol. GCB Bioenergy, 2021, 13, 1498-1514.	5.6	12
21	Temporal variability in the impacts of particulate matter on crop yields on the North China Plain. Science of the Total Environment, 2021, 776, 145135.	8.0	10
22	Towards a dynamic photosynthesis model to guide yield improvement in C4 crops. Plant Journal, 2021, 107, 343-359.	5.7	30
23	Phenotyping stomatal closure by thermal imaging for GWAS and TWAS of water use efficiency-related genes. Plant Physiology, 2021, 187, 2544-2562.	4.8	23
24	Evaluating natural variation, heritability, and genetic advance of photosynthetic traits in rice (<scp><i>Oryza sativa</i></scp>). Plant Breeding, 2021, 140, 745-757.	1.9	9
25	Photosynthetic efficiency and mesophyll conductance are unaffected in Arabidopsis thaliana aquaporin knock-out lines. Journal of Experimental Botany, 2020, 71, 318-329.	4.8	31
26	Photosynthesis across African cassava germplasm is limited by Rubisco and mesophyll conductance at steady state, but by stomatal conductance in fluctuating light. New Phytologist, 2020, 225, 2498-2512.	7.3	92
27	Photosynthesis in the fleeting shadows: an overlooked opportunity for increasing crop productivity?. Plant Journal, 2020, 101, 874-884.	5.7	68
28	Retrospective analysis of biochemical limitations to photosynthesis in 49 species: <scp>C₄</scp> crops appear still adapted to preâ€industrial atmospheric [<scp>CO₂</scp>]. Plant, Cell and Environment, 2020, 43, 2606-2622.	5.7	16
29	During photosynthetic induction, biochemical and stomatal limitations differ between <i>Brassica</i> crops. Plant, Cell and Environment, 2020, 43, 2623-2636.	5.7	21
30	Bioenergyâ€"The slope of enlightenment. GCB Bioenergy, 2020, 12, 462-463.	5.6	1
31	Robust paths to net greenhouse gas mitigation and negative emissions via advanced biofuels. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21968-21977.	7.1	110
32	Variation in photosynthetic induction between rice accessions and its potential for improving productivity. New Phytologist, 2020, 227, 1097-1108.	7.3	97
33	Light, Not Age, Underlies the Maladaptation of Maize and Miscanthus Photosynthesis to Self-Shading. Frontiers in Plant Science, 2020, 11, 783.	3.6	18
34	Photosynthesis engineered to increase rice yield. Nature Food, 2020, 1, 105-105.	14.0	10
35	Multiscale computational models can guide experimentation and targeted measurements for crop improvement. Plant Journal, 2020, 103, 21-31.	5.7	36
36	Twentyâ€five years of <i>GCB</i>: Putting the biology into global change. Global Change Biology, 2020, 26, 1-2.	9.5	7

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37	Civil disobedience movements such as School Strike for the Climate are raising public awareness of the climate change emergency. Global Change Biology, 2020, 26, 1042-1044.	9.5	40
38	Towards oilcane: Engineering hyperaccumulation of triacylglycerol into sugarcane stems. GCB Bioenergy, 2020, 12, 476-490.	5.6	54
39	Training Population Optimization for Genomic Selection in <i>Miscanthus</i>. G3: Genes, Genomes, Genetics, 2020, 10, 2465-2476.	1.8	27
40	Winter hardiness of <i>Miscanthus</i> (III): Genomeâ€wide association and genomic prediction for overwintering ability in <i>Miscanthus sinensis</i>. GCB Bioenergy, 2019, 11, 930-955.	5.6	5
41	Genomeâ€wide association and genomic prediction for biomass yield in a genetically diverse <i>Miscanthus sinensis</i> germplasm panel phenotyped at five locations in Asia and North America. GCB Bioenergy, 2019, 11, 988-1007.	5.6	7
42	Combining gene network, metabolic and leaf-level models shows means to future-proof soybean photosynthesis under rising CO2. In Silico Plants, 2019, 1, .	1.9	18
43	Field-grown tobacco plants maintain robust growth while accumulating large quantities of a bacterial cellulase in chloroplasts. Nature Plants, 2019, 5, 715-721.	9.3	20
44	Are we approaching a water ceiling to maize yields in the United States?. Ecosphere, 2019, 10, e02773.	2.2	42
45	Making our plant modelling community more than the sum of its parts: a personal perspective. In Silico Plants, 2019, 1, .	1.9	4
46	Biomass yield in a genetically diverse <i>Miscanthus sinensis</i> germplasm panel evaluated at five locations revealed individuals with exceptional potential. GCB Bioenergy, 2019, 11, 1125-1145.	5.6	18
47	Predicting light-induced stomatal movements based on the redox state of plastoquinone: theory and validation. Photosynthesis Research, 2019, 141, 83-97.	2.9	20
48	Siberian <i>Miscanthus sacchariflorus</i> accessions surpass the exceptional chilling tolerance of the most widely cultivated clone of <i>Miscanthus</i> x <i>giganteus</i>. GCB Bioenergy, 2019, 11, 883-894.	5.6	5
49	Reply to: Brazilian ethanol expansion subject to limitations. Nature Climate Change, 2019, 9, 211-212.	18.8	7
50	Phenotyping photosynthesis on the limit â€“ a critical examination of RACiR. New Phytologist, 2019, 221, 621-624.	7.3	16
51	Bundle sheath chloroplast volume can house sufficient Rubisco to avoid limiting C4 photosynthesis during chilling. Journal of Experimental Botany, 2019, 70, 357-365.	4.8	9
52	BSD2 is a Rubiscoâ€specific assembly chaperone, forms intermediary heteroâ€oligomeric complexes, and is nonlimiting to growth in tobacco. Plant, Cell and Environment, 2019, 42, 1287-1301.	5.7	22
53	Population structure of Miscanthus sacchariflorus reveals two major polyploidization events, tetraploid-mediated unidirectional introgression from diploid M. sinensis, and diversity centred around the Yellow Sea. Annals of Botany, 2019, 124, 731-748.	2.9	26
54	Photosystem II Subunit S overexpression increases the efficiency of water use in a field-grown crop. Nature Communications, 2018, 9, 868.	12.8	181

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55	Toward improving photosynthesis in cassava: Characterizing photosynthetic limitations in four current African cultivars. Food and Energy Security, 2018, 7, e00130.	4.3	25
56	Farming with crops and rocks to address global climate, food and soil security. Nature Plants, 2018, 4, 138-147.	9.3	226
57	BETYdb: a yield, trait, and ecosystem service database applied to secondâ€generation bioenergy feedstock production. GCB Bioenergy, 2018, 10, 61-71.	5.6	40
58	Biorefinery for combined production of jet fuel and ethanol from lipidâ€producing sugarcane: a technoâ€economic evaluation. GCB Bioenergy, 2018, 10, 92-107.	5.6	40
59	Expression of cyanobacterial FBP/SBPase in soybean prevents yield depression under future climate conditions. Journal of Experimental Botany, 2017, 68, erw435.	4.8	61
60	Evaluation of the quantity and composition of sugars and lipid in the juice and bagasse of lipid producing sugarcane. Biocatalysis and Agricultural Biotechnology, 2017, 10, 148-155.	3.1	18
61	Enhancing soybean photosynthetic CO 2 assimilation using a cyanobacterial membrane protein, ictB. Journal of Plant Physiology, 2017, 212, 58-68.	3.5	53
62	A userâ€friendly means to scale from the biochemistry of photosynthesis to whole crop canopies and production in time and space â€" development of Java WIMOVAC. Plant, Cell and Environment, 2017, 40, 51-55.	5.7	9
63	Potential of global croplands and bioenergy crops for climate change mitigation through deployment for enhanced weathering. Biology Letters, 2017, 13, 20160714.	2.3	88
64	Development of a Three-Dimensional Ray-Tracing Model of Sugarcane Canopy Photosynthesis and Its Application in Assessing Impacts of Varied Row Spacing. Bioenergy Research, 2017, 10, 626-634.	3.9	31
65	Brazilian sugarcane ethanol as an expandable green alternative to crude oil use. Nature Climate Change, 2017, 7, 788-792.	18.8	124
66	Slow induction of photosynthesis on shade to sun transitions in wheat may cost at least 21% of productivity. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160543.	4.0	172
67	Decreasing, not increasing, leaf area will raise crop yields under global atmospheric change. Global Change Biology, 2017, 23, 1626-1635.	9.5	112
68	Rooting for cassava: insights into photosynthesis and associated physiology as aÂroute to improve yield potential. New Phytologist, 2017, 213, 50-65.	7.3	108
69	Crops In Silico: Generating Virtual Crops Using an Integrative and Multi-scale Modeling Platform. Frontiers in Plant Science, 2017, 8, 786.	3.6	102
70	The Role of Sink Strength and Nitrogen Availability in the Down-Regulation of Photosynthetic Capacity in Field-Grown Nicotiana tabacum L. at Elevated CO2 Concentration. Frontiers in Plant Science, 2017, 8, 998.	3.6	64
71	Loss of photosynthetic efficiency in the shade. An Achilles heel for the dense modern stands of our most productive C₄crops?. Journal of Experimental Botany, 2017, 68, 335-345.	4.8	35
72	Genetic and Physiological Diversity in the Leaf Photosynthetic Capacity of Soybean. Crop Science, 2016, 56, 2731-2741.	1.8	16

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73	Factors underlying genotypic differences in the induction of photosynthesis in soybean [<i>Glycine max</i> (L.) <scp>Merr</scp>.]. Plant, Cell and Environment, 2016, 39, 685-693.	5.7	85
74	An evaluation of new and established methods to determine Tâ€DNA copy number and homozygosity in transgenic plants.. Plant, Cell and Environment, 2016, 39, 908-917.	5.7	77
75	Technoeconomic Analysis of Biodiesel and Ethanol Production from Lipid-Producing Sugarcane and Sweet Sorghum. Industrial Biotechnology, 2016, 12, 357-365.	0.8	16
76	Comparing predicted yield and yield stability of willow and Miscanthus across Denmark. GCB Bioenergy, 2016, 8, 1061-1070.	5.6	24
77	Technoâ€economic analysis of biodiesel and ethanol coâ€production from lipidâ€producing sugarcane. Biofuels, Bioproducts and Biorefining, 2016, 10, 299-315.	3.7	85
78	Biomass feedstock preprocessing and longâ€distance transportation logistics. GCB Bioenergy, 2016, 8, 160-170.	5.6	51
79	Pharaoh's Dream Revisited: An Integrated US Midwest Field Research Network for Climate Adaptation. BioScience, 2016, 66, 80-85.	4.9	5
80	GCBâ€Bioenergy reaches a new high in impact factor and goes open access. GCB Bioenergy, 2016, 8, 3-3.	5.6	0
81	Plants <i>in silico</i>: why, why now and what?â€"an integrative platform for plant systems biology research. Plant, Cell and Environment, 2016, 39, 1049-1057.	5.7	66
82	Impacts of a 32-billion-gallon bioenergy landscape on land and fossil fuel use in the US. Nature Energy, 2016, 1, .	39.5	97
83	Improving photosynthesis and crop productivity by accelerating recovery from photoprotection. Science, 2016, 354, 857-861.	12.6	975
84	Intensifying drought eliminates the expected benefits of elevated carbon dioxide for soybean. Nature Plants, 2016, 2, 16132.	9.3	229
85	High C3 photosynthetic capacity and high intrinsic water use efficiency underlies the high productivity of the bioenergy grass Arundo donax. Scientific Reports, 2016, 6, 20694.	3.3	64
86	Can chilling tolerance of C 4 photosynthesis in Miscanthus be transferred to sugarcane?. GCB Bioenergy, 2016, 8, 407-418.	5.6	22
87	One crop breeding cycle from starvation? How engineering crop photosynthesis for rising CO ₂ and temperature could be one important route to alleviation. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152578.	2.6	88
88	A physiological and biophysical model of coppice willow (<scp><i>S</i></scp><i>alix</i> spp.) production yields for the contiguous <scp>USA</scp> in current and future climate scenarios. Plant, Cell and Environment, 2015, 38, 1850-1865.	5.7	30
89	Toward systemsâ€level analysis of agricultural production from crassulacean acid metabolism (<scp>CAM</scp>): scaling from cell to commercial production. New Phytologist, 2015, 208, 66-72.	7.3	25
90	Biogeochemical consequences of regional land use change to a biofuel crop in the southeastern United States. Ecosphere, 2015, 6, art265.	2.2	12

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91	Is there potential to adapt soybean (<scp><i>G</i></scp><i>lycine max</i>â€…<scp>M</scp>err.) to future [<scp><scp>CO₂</scp></scp>]? An analysis of the yield response of 18 genotypes in freeâ€air <scp><scp>CO₂</scp></scp> enrichment. Plant, Cell and Environment, 2015, 38, 1765-1774.	5.7	116
92	Meeting the Global Food Demand of the Future by Engineering Crop Photosynthesis and Yield Potential. Cell, 2015, 161, 56-66.	28.9	755
93	Cost of Abating Greenhouse Gas Emissions with Cellulosic Ethanol. Environmental Science & Technology, 2015, 49, 2512-2522.	10.0	65
94	Redesigning photosynthesis to sustainably meet global food and bioenergy demand. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8529-8536.	7.1	751
95	Environment Has Little Effect on Biomass Biochemical Composition of Miscanthusâ€‰Ã—â€‰giganteus Across Soil Types, Nitrogen Fertilization, and Times of Harvest. Bioenergy Research, 2015, 8, 1636-1646.	3.9	31
96	Can the exceptional chilling tolerance of C₄photosynthesis found in<i>Miscanthusâ€‰Ã—â€‰giganteus</i>be exceeded? Screening of a novel<i>Miscanthus</i>Japanese germplasm collection. Annals of Botany, 2015, 115, 981-990.	2.9	22
97	An analysis of ozone damage to historical maize and soybean yields in the United States. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14390-14395.	7.1	159
98	Photosynthesis: The Final Frontier. CSA News, 2014, 59, 12-13.	0.0	3
99	Transcriptional responses indicate maintenance of photosynthetic proteins as key to the exceptional chilling tolerance of C4 photosynthesis in Miscanthus Ã— giganteus. Journal of Experimental Botany, 2014, 65, 3737-3747.	4.8	31
100	Elements Required for an Efficient NADP-Malic Enzyme Type C4 Photosynthesis Â Â Â. Plant Physiology, 2014, 164, 2231-2246.	4.8	69
101	Yields of <i><scp>M</scp>iscanthus</i>ÂÃ—Â<i>giganteus</i> and <i><scp>P</scp>anicum virgatum</i> decline with stand age in the Midwestern <scp>USA</scp>. GCB Bioenergy, 2014, 6, 1-13.	5.6	119
102	Variation in chilling tolerance for photosynthesis and leaf extension growth among genotypes related to the C4 grass Miscanthus Ã—giganteus. Journal of Experimental Botany, 2014, 65, 5267-5278.	4.8	32
103	Simultaneous improvement in productivity, water use, and albedo through crop structural modification. Global Change Biology, 2014, 20, 1955-1967.	9.5	88
104	Nitrogen Fertilization Does Significantly Increase Yields of Stands of Miscanthus Ã— giganteus and Panicum virgatum in Multiyear Trials in Illinois. Bioenergy Research, 2014, 7, 408-416.	3.9	71
105	Limits on Yields in the Corn Belt. Science, 2014, 344, 484-485.	12.6	132
106	Can the Cyanobacterial Carbon-Concentrating Mechanism Increase Photosynthesis in Crop Species? A Theoretical Analysis Â Â. Plant Physiology, 2014, 164, 2247-2261.	4.8	159
107	Light to liquid fuel: theoretical and realized energy conversion efficiency of plants using Crassulacean Acid Metabolism (CAM) in arid conditions. Journal of Experimental Botany, 2014, 65, 3471-3478.	4.8	48
108	The Theoretical Limit to Plant Productivity. Environmental Science & Technology, 2014, 48, 9471-9477.	10.0	41

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109	We need winners in the race to increase photosynthesis in rice, whether from conventional breeding, biotechnology or both. Plant, Cell and Environment, 2014, 37, 19-21.	5.7	36
110	A footprint of past climate change on the diversity and population structure of Miscanthus sinensis. Annals of Botany, 2014, 114, 97-107.	2.9	87
111	Genome of the long-living sacred lotus (Nelumbo nucifera Gaertn.). Genome Biology, 2013, 14, R41.	9.6	329
112	Special issue on plant computational biology. Plant, Cell and Environment, 2013, 36, 1573-1574.	5.7	1
113	Preface. Journal of Experimental Botany, 2013, 64, 707-708.	4.8	0
114	<i>e</i>â€photosynthesis: a comprehensive dynamic mechanistic model of C3 photosynthesis: from light capture to sucrose synthesis. Plant, Cell and Environment, 2013, 36, 1711-1727.	5.7	118
115	Will the exceptional productivity of Miscanthus x giganteus increase further under rising atmospheric CO2?. Agricultural and Forest Meteorology, 2013, 171-172, 82-92.	4.8	37
116	2013 reviews of <i>Global Change Biology</i>. Global Change Biology, 2013, 19, 1-2.	9.5	9
117	Toward Cool C₄Crops. Annual Review of Plant Biology, 2013, 64, 701-722.	18.7	78
118	Detection of<i>Switchgrass mosaic virus</i>in<i>Miscanthus</i>and other grasses. Canadian Journal of Plant Pathology, 2013, 35, 81-86.	1.4	14
119	Predicting Greenhouse Gas Emissions and Soil Carbon from Changing Pasture to an Energy Crop. PLoS ONE, 2013, 8, e72019.	2.5	30
120	European Perspectives: An Agronomic Science Plan for Food Security in a Changing Climate. ICP Series on Climate Change Impacts, Adaptation, and Mitigation, 2012, , 73-84.	0.4	3
121	Photosynthesis in a CO2-Rich Atmosphere. Advances in Photosynthesis and Respiration, 2012, , 733-768.	1.0	28
122	A European science plan to sustainably increase food security under climate change. Global Change Biology, 2012, 18, 3269-3271.	9.5	35
123	Virtual Special Issue (VSI) on mechanisms of plant response to global atmospheric change. Plant, Cell and Environment, 2012, 35, 1705-1706.	5.7	11
124	Biofuels on the landscape: Is â€œland sharingâ€•preferable to â€œland sparingâ€?. Ecological Applications, 2012, 22, 2035-2048.	3.8	39
125	Harvesting Carbon from Eastern US Forests: Opportunities and Impacts of an Expanding Bioenergy Industry. Forests, 2012, 3, 370-397.	2.1	24
126	Accelerating yield potential in soybean: potential targets for biotechnological improvement. Plant, Cell and Environment, 2012, 35, 38-52.	5.7	153

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127	Virtual Special Issue on food security â€“ greater than anticipated impacts of nearâ€term global atmospheric change on rice and wheat. Global Change Biology, 2012, 18, 1489-1490.	9.5	22
128	Modeling spatial and dynamic variation in growth, yield, and yield stability of the bioenergy crops <i><scp>M</scp>iscanthusÂ</i>Ã—Â<i>giganteus</i> and <i><scp>P</scp>anicum virgatum</i> across the conterminous <scp>U</scp>nited <scp>S</scp>tates. GCB Bioenergy, 2012, 4, 509-520.	5.6	99
129	Seasonal dynamics of aboveâ€•and belowâ€ground biomass and nitrogen partitioning in <i><scp>M</scp>iscanthus</i>ÂÃ—Â<i>giganteus</i> and <i><scp>P</scp>anicum virgatum</i> across three growing seasons. GCB Bioenergy, 2012, 4, 534-544.	5.6	131
130	The global potential for Agave as a biofuel feedstock. GCB Bioenergy, 2011, 3, 68-78.	5.6	163
131	The Evaluation of Feedstocks in GCBB Continues with a Special Issue on Agave for Bioenergy. GCB Bioenergy, 2011, 3, 1-3.	5.6	8
132	Over-expressing the C3 photosynthesis cycle enzyme Sedoheptulose-1-7 Bisphosphatase improves photosynthetic carbon gain and yield under fully open air CO2fumigation (FACE). BMC Plant Biology, 2011, 11, 123.	3.6	156
133	Improving Photosynthetic Efficiency for Greater Yield. Annual Review of Plant Biology, 2010, 61, 235-261.	18.7	1,410
134	More than taking the heat: crops and global change. Current Opinion in Plant Biology, 2010, 13, 240-247.	7.1	309
135	Ecohydrological responses of dense canopies to environmental variability: 1. Interplay between vertical structure and photosynthetic pathway. Journal of Geophysical Research, 2010, 115, .	3.3	61
136	Ecohydrological responses of dense canopies to environmental variability: 2. Role of acclimation under elevated CO₂. Journal of Geophysical Research, 2010, 115, .	3.3	27
137	Challenges in elevated CO2 experiments on forests. Trends in Plant Science, 2010, 15, 5-10.	8.8	46
138	Miscanthus. Advances in Botanical Research, 2010, 56, 75-137.	1.1	169
139	Feedstocks for Lignocellulosic Biofuels. Science, 2010, 329, 790-792.	12.6	1,070
140	Perennial Grasses as Second-Generation Sustainable Feedstocks Without Conflict with Food Production. , 2010, , 27-37.		10
141	More Productive Than Maize in the Midwest: How Does Miscanthus Do It? Â Â. Plant Physiology, 2009, 150, 2104-2115.	4.8	335
142	Elevated CO2 effects on plant carbon, nitrogen, and water relations: six important lessons from FACE. Journal of Experimental Botany, 2009, 60, 2859-2876.	4.8	1,343
143	Elevated CO2 significantly delays reproductive development of soybean under Free-Air Concentration Enrichment (FACE). Journal of Experimental Botany, 2009, 60, 2945-2951.	4.8	37
144	Is a short, sharp shock equivalent to longâ€term punishment? Contrasting the spatial pattern of acute and chronic ozone damage to soybean leaves via chlorophyll fluorescence imaging. Plant, Cell and Environment, 2009, 32, 327-335.	5.7	43

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145	Does greater leafâ€level photosynthesis explain the larger solar energy conversion efficiency of Miscanthus relative to switchgrass?. Plant, Cell and Environment, 2009, 32, 1525-1537.	5.7	106
146	Quantifying the impact of current and future tropospheric ozone on tree biomass, growth, physiology and biochemistry: a quantitative metaâ€analysis. Global Change Biology, 2009, 15, 396-424.	9.5	470
147	Seasonal nitrogen dynamics of <i>Miscanthus</i>Ã—<i>giganteus</i> and <i>Panicum virgatum</i>. GCB Bioenergy, 2009, 1, 297-307.	5.6	163
148	Photosynthesis in silico. Advances in Photosynthesis and Respiration, 2009, , .	1.0	47
149	A semimechanistic model predicting the growth and production of the bioenergy crop <i>Miscanthus</i>Ã—<i>giganteus:</i> description, parameterization and validation. GCB Bioenergy, 2009, 1, 282-296.	5.6	68
150	Modeling the Temperature Dependence of C3 Photosynthesis. Advances in Photosynthesis and Respiration, 2009, , 231-246.	1.0	37
151	Can Increase in Rubisco Specificity Increase Carbon Gain by Whole Canopy? A Modeling Analysis. Advances in Photosynthesis and Respiration, 2009, , 401-416.	1.0	7
152	Agronomic Experiences with Miscanthus x giganteus in Illinois, USA. Methods in Molecular Biology, 2009, 581, 41-52.	0.9	50
153	What is the maximum efficiency with which photosynthesis can convert solar energy into biomass?. Current Opinion in Biotechnology, 2008, 19, 153-159.	6.6	897
154	Herbaceous energy crop development: recent progress and future prospects. Current Opinion in Biotechnology, 2008, 19, 202-209.	6.6	156
155	FACEâ€ing the facts: inconsistencies and interdependence among field, chamber and modeling studies of elevated [CO₂] impacts on crop yield and food supply. New Phytologist, 2008, 179, 5-9.	7.3	251
156	Future atmospheric CO₂ leads to delayed autumnal senescence. Global Change Biology, 2008, 14, 264-275.	9.5	95
157	How do elevated CO₂ and O₃ affect the interception and utilization of radiation by a soybean canopy?. Global Change Biology, 2008, 14, 556-564.	9.5	54
158	Meeting US biofuel goals with less land: the potential of Miscanthus. Global Change Biology, 2008, 14, 2000-2014.	9.5	712
159	Next generation of elevated [CO₂] experiments with crops: a critical investment for feeding the future world. Plant, Cell and Environment, 2008, 31, 1317-1324.	5.7	154
160	Meta-analysis of the effects of management factors on MiscanthusÃ—giganteus growth and biomass production. Agricultural and Forest Meteorology, 2008, 148, 1280-1292.	4.8	152
161	Cool C4 Photosynthesis: Pyruvate Pi Dikinase Expression and Activity Corresponds to the Exceptional Cold Tolerance of Carbon Assimilation in<i>Miscanthus</i>Ã—<i>giganteus</i>Â Â Â. Plant Physiology, 2008, 148, 557-567.	4.8	143
162	The Effect of Leaf-Level Spatial Variability in Photosynthetic Capacity on Biochemical Parameter Estimates Using the Farquhar Model: A Theoretical Analysis Â. Plant Physiology, 2008, 148, 1139-1147.	4.8	34

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