Tim L Setter

List of Publications by Year
in descending order

80 papers	4,396 citations	101543 36 h-index	114465 63 g-index
84 all docs	84 docs citations	84 times ranked	4391 citing authors

#	Article	IF	Citations
1	Sequencing wild and cultivated cassava and related species reveals extensive interspecific hybridization and genetic diversity. Nature Biotechnology, 2016, 34, 562-570.	17.5	340
2	Loss of Kernel Set Due to Water Deficit and Shade in Maize. Crop Science, 2001, 41, 1530-1540.	1.8	213
3	The U.S. drought of 2012 in perspective: A call to action. Global Food Security, 2013, 2, 139-143.	8.1	189
4	Role of Auxin in Maize Endosperm Development (Timing of Nuclear DNA Endoreduplication, Zein) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 (	4.8	172
5	Comparative Transcriptional Profiling of Placenta and Endosperm in Developing Maize Kernels in Response to Water Deficit. Plant Physiology, 2003, 131, 568-582.	4.8	158
6	Phenotypic approaches to drought in cassava: review. Frontiers in Physiology, 2013, 4, 93.	2.8	144
7	Influence of Water Deficit on Maize Endosperm Development. Plant Physiology, 1991, 97, 154-164.	4.8	138
8	Response of Cassava Leaf Area Expansion to Water Deficit: Cell Proliferation, Cell Expansion and Delayed Development. Annals of Botany, 2004, 94, 605-613.	2.9	130
9	Genome-wide association analysis for nine agronomic traits in maize under well-watered and water-stressed conditions. Theoretical and Applied Genetics, 2013, 126, 2587-2596.	3.6	119
10	Effect of Obstructed Translocation on Leaf Abscisic Acid, and Associated Stomatal Closure and Photosynthesis Decline. Plant Physiology, 1980, 65, 1111-1115.	4.8	118
11	Water deficit inhibits cell division and expression of transcripts involved in cell proliferation and endoreduplication in maize endosperm. Journal of Experimental Botany, 2001, 52, 1401-1408.	4.8	114
12	Genetic association mapping identifies single nucleotide polymorphisms in genes that affect abscisic acid levels in maize floral tissues during drought. Journal of Experimental Botany, 2011, 62, 701-716.	4.8	110
13	Drought Tolerance in Maize. , 2009, , 311-344.		108
14	Response of Cassava to Water Deficit: Leaf Area Growth and Abscisic Acid. Crop Science, 2000, 40, 131-137.	1.8	106
15	A GH3-like gene, CcGH3, isolated from Capsicum chinense L. fruit is regulated by auxin and ethylene*. Plant Molecular Biology, 2005, 58, 447-464.	3.9	105
16	Field-Based High-Throughput Plant Phenotyping Reveals the Temporal Patterns of Quantitative Trait Loci Associated with Stress-Responsive Traits in Cotton. G3: Genes, Genomes, Genetics, 2016, 6, 865-879.	1.8	105
17	Stomatal Closure and Photosynthetic Inhibition in Soybean Leaves Induced by Petiole Girdling and Pod Removal. Plant Physiology, 1980, 65, 884-887.	4.8	93
18	Abscisic acid accumulation and osmotic adjustment in cassava under water deficit. Environmental and Experimental Botany, 2004, 51, 259-271.	4.2	91

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19	Water deficit in developing endosperm of maize: cell division and nuclear DMA endoreduplication. Plant, Cell and Environment, 1995, 18, 1034-1040.	5.7	82
20	Wheat production in Tunisia: Progress, inter-annual variability and relation to rainfall. European Journal of Agronomy, 2010, 33, 33-42.	4.1	79
21	Abscisic Acid Translocation and Metabolism in Soybeans following Depodding and Petiole Girdling Treatments. Plant Physiology, 1981, 67, 774-779.	4.8	75
22	Abscisic Acid Inhibition of Endosperm Cell Division in Cultured Maize Kernels. Plant Physiology, 1990, 94, 1330-1336.	4.8	71
23	Water deficits in wheat: fructan exohydrolase (1â€FEH) mRNA expression and relationship to soluble carbohydrate concentrations in two varieties. New Phytologist, 2009, 181, 843-850.	7.3	68
24	Gibberellic Acid Regulates Cell Wall Extensibility in Wheat (<i>Triticum aestivum</i> L.). Plant Physiology, 1990, 92, 242-245.	4.8	67
25	Enzyme Activities of Starch and Sucrose Pathways and Growth of Apical and Basal Maize Kernels. Plant Physiology, 1985, 79, 848-851.	4.8	65
26	Chilling responses of maize (Zea mays L.) seedlings: root hydraulic conductance, abscisic acid, and stomatal conductance. Journal of Experimental Botany, 2004, 55, 1751-1760.	4.8	64
27	Science-based intensive agriculture: Sustainability, food security, and the role of technology. Global Food Security, 2019, 23, 236-244.	8.1	56
28	Inhibition of maize endosperm cell division and endoreduplication by exogenously applied abscisic acid. Physiologia Plantarum, 1998, 104, 266-272.	5.2	49
29	Abscisic Acid Catabolism in Maize Kernels in Response to Water Deficit at Early Endosperm Development. Annals of Botany, 2002, 90, 623-630.	2.9	47
30	Physiological and Genetic Characterization of End-of-Day Far-Red Light Response in Maize Seedlings Â Â. Plant Physiology, 2010, 154, 173-186.	4.8	47
31	Ecophysiology of Acer rubrum seedlings from contrasting hydrologic habitats: growth, gas exchange, tissue water relations, abscisic acid and carbon isotope discrimination. Tree Physiology, 2003, 23, 841-850.	3.1	45
32	Cassava Response to Water Deficit in Deep Pots: Root and Shoot Growth, ABA, and Carbohydrate Reserves in Stems, Leaves and Storage Roots. Tropical Plant Biology, 2013, 6, 199-209.	1.9	44
33	Overexpression of Arabidopsis FLOWERING LOCUS T (FT) gene improves floral development in cassava (Manihot esculenta, Crantz). PLoS ONE, 2017, 12, e0181460.	2.5	44
34	Endorsperm Development of Maize Defective Kernel (dek) Mutants. Auxin and Cytokinin Levels. Annals of Botany, 1993, 72, 1-6.	2.9	43
35	Genome-wide association studies of drought-related metabolic changes in maize using an enlarged SNP panel. Theoretical and Applied Genetics, 2016, 129, 1449-1463.	3.6	43
36	Reserve Carbohydrate in Maize Stem. Plant Physiology, 1984, 75, 617-622.	4.8	42

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37	Relationship of Carbohydrate and Abscisic Acid Levels to Kernel Set in Maize under Postpollination Water Deficit. Crop Science, 2010, 50, 980-988.	1.8	42
38	Regulation of endoreduplication in maize (Zea mays L.) endosperm. Isolation of a novel B1-type cyclin and its quantitative analysis. Plant Molecular Biology, 1999, 41, 245-258.	3.9	41
39	Identification of FT family genes that respond to photoperiod, temperature and genotype in relation to flowering in cassava (Manihot esculenta, Crantz). Plant Reproduction, 2019, 32, 181-191.	2.2	40
40	Timing of Kernel Development in Water-stressed Maize: Water Potentials and Abscisic Acid Concentrations. Annals of Botany, 1990, 66, 665-672.	2.9	36
41	Induction of flowering in cassava through grafting. Journal of Plant Breeding and Crop Science, 2017, 9, 19-29.	0.8	36
42	Effect of Increased Temperature in Apical Regions of Maize Ears on Starch-Synthesis Enzymes and Accumulation of Sugars and Starch. Plant Physiology, 1985, 79, 852-855.	4.8	35
43	Response of Potato Tuber Cell Division and Growth to Shade and Elevated CO2. Annals of Botany, 2003, 91, 373-381.	2.9	34
44	Carbon Dioxide and Light Responses of Photosynthesis in Cowpea and Pigeonpea during Water Deficit and Recovery. Plant Physiology, 1987, 85, 990-995.	4.8	32
45	Genetic Analysis of Water Use Efficiency in Rice (Oryza sativa L.) at the Leaf Level. Rice, 2010, 3, 72-86.	4.0	32
46	The anti-ethylene growth regulator silver thiosulfate (STS) increases flower production and longevity in cassava (Manihot esculenta Crantz). Plant Growth Regulation, 2020, 90, 441-453.	3.4	30
47	Carbon Dioxide Exchange Rates, Transpiration, and Leaf Characters in Genetically Equivalent Ploidy Levels of Alfalfa 1. Crop Science, 1978, 18, 327-332.	1.8	28
48	Sugar and Starch Redistribution in Maize in Response to Shade and Ear Temperature Treatment 1. Crop Science, 1986, 26, 575-579.	1.8	28
49	Partitioning of 14C-Photosynthate, and Long Distance Translocation of Amino Acids in Preflowering and Flowering, Nodulated and Nonnodulated Soybeans. Plant Physiology, 1979, 64, 94-98.	4.8	27
50	Signal coordination before, during and after stomatal closure in response to drought stress. New Phytologist, 2019, 224, 675-688.	7.3	27
51	Response of potato dry matter assimilation and partitioning to elevated CO2 at various stages of tuber initiation and growth. Environmental and Experimental Botany, 2012, 80, 27-34.	4.2	25
52	Water Deficit Induces Abscisic Acid Accumulation in Endosperm of Maize Viviparous Mutants. Plant Physiology, 1992, 98, 353-356.	4.8	23
53	Endosperm Cell Division in Maize Kernels Cultured at Three Levels of Water Potential. Plant Physiology, 1992, 99, 1051-1056.	4.8	23
54	Analysis of Constituents for Phenotyping Drought Tolerance in Crop Improvement. Frontiers in Physiology, 2012, 3, 180.	2.8	22

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55	Differential Growth Response to Salt Stress Among Selected Ornamentals. Journal of Plant Nutrition, 2007, 30, 1109-1126.	1.9	21
56	Photosynthesis and Water Vapor Exchange of Pigeonpea Leaves in Response to Water Deficit and Recovery. Crop Science, 1988, 28, 141-145.	1.8	20
57	Identification of a Dihydrophaseic Acid Aldopyranoside from Soybean Tissue. Plant Physiology, 1981, 68, 93-95.	4.8	19
58	Relationship Between Photosynthate Supply and Endosperm Development in Maize. Annals of Botany, 1989, 64, 481-487.	2.9	17
59	Genetic Dissection of Drought Tolerance in Maize. Books in Soils, Plants, and the Environment, 2004, , .	0.1	17
60	Partitioning index and non-structural carbohydrate dynamics among contrasting cassava genotypes under early terminal water stress. Environmental and Experimental Botany, 2019, 163, 24-35.	4.2	15
61	Effect of Pruning Young Branches on Fruit and Seed Set in Cassava. Frontiers in Plant Science, 2020, 11, 1107.	3.6	15
62	Induction of Earlier Flowering in Cassava through Extended Photoperiod. Agronomy, 2020, 10, 1273.	3.0	15
63	Alternative splicing of cyclin transcripts in maize endosperm. Gene, 1997, 195, 167-175.	2.2	14
64	Effects of low nitrogen on chlorophyll content and dry matter accumulation in maiz. African Journal of Agricultural Research Vol Pp, 2016, 11, 1001-1007.	0.5	14
65	Flower Development in Cassava Is Feminized by Cytokinin, While Proliferation Is Stimulated by Anti-Ethylene and Pruning: Transcriptome Responses. Frontiers in Plant Science, 2021, 12, 666266.	3.6	12
66	Recent Advances in Molecular Breeding of Cassava For Improved Drought Stress Tolerance. , 2007, , 701-711.		12
67	Effects of Simulated Dark Shipping on Photosynthetic Status and Post-shipping Performance in Phalaenopsis Sogo Yukidian â€˜V3â€™. Journal of the American Society for Horticultural Science, 2010, 135, 183-190.	1.0	11
68	Drought deteriorated the nutritional quality of cottonseed by altering fatty acids and amino acids compositions in cultivars with contrasting drought sensitivity. Environmental and Experimental Botany, 2022, 194, 104747.	4.2	9
69	Hormonal Regulation of Early Kernel Development. CSSA Special Publication - Crop Science Society of America, 0, , 25-42.	0.1	7
70	Role of Tuber Developmental Processes in Response of Potato to High Temperature and Elevated CO2. Plants, 2021, 10, 871.	3.5	7
71	Molecular and functional characterization of two drought-induced zinc finger proteins, ZmZnF1 and ZmZnF2 from maize kernels. Environmental and Experimental Botany, 2015, 111, 13-20.	4.2	5
72	Environmental responsiveness of flowering time in cassava genotypes and associated transcriptome changes. PLoS ONE, 2021, 16, e0253555.	2.5	4

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73	Photosynthate Partitioning in Pigeonpea in Response to Defoliation and Shading1. Crop Science, 1984, 24, 221.	1.8	4
74	Tubulin isotypes in maize endosperm. Alterations during development and water deficit. Physiologia Plantarum, 1995, 94, 158-163.	5.2	3
75	Tubulin isotypes in maize endosperm. Alterations during development and water deficit. Physiologia Plantarum, 1995, 94, 158-163.	5.2	3
76	Assimilate Allocation in Response to Water Deficit Stress. , 2015, , 733-739.		2
77	GROWTH AND [¹⁴C] SUCROSE UPTAKE OF APICAL AND BASAL MAIZE KERNELS. Canadian Journal of Plant Science, 1986, 66, 863-869.	0.9	1
78	Comparative transcriptomes between viviparous1 and wildtype maize developing endosperms in response to water deficit. Environmental and Experimental Botany, 2016, 123, 116-124.	4.2	1
79	Correlations of Plant Parameters with Nitrogen Fixation in Cowpea. Biological Agriculture and Horticulture, 1983, 1, 335-338.	1.0	0
80	Time Course of Photosynthesis and Stomatal Conductance Following Changes in Light Flux Density 1. Crop Science, 1983, 23, 795-797.	1.8	0