## Klaus Winter

List of Publications by Year in descending order

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25034 34986 10,767 128 57 98 citations h-index g-index papers 137 137 137 9304 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Evolutionary history of CAM photosynthesis in Neotropical (i) Clusia (li): insights from genomics, anatomy, physiology and climate. Botanical Journal of the Linnean Society, 2022, 199, 538-556.	1.6	16
2	CAM photosynthesis: the acid test. New Phytologist, 2022, 233, 599-609.	7.3	42
3	Photosynthetic quantum efficiency in <scp>southâ€eastern</scp> Amazonian trees may be already affected by climate change. Plant, Cell and Environment, 2021, 44, 2428-2439.	5.7	22
4	Does the C. Functional Plant Biology, 2021, 48, 655-665.	2.1	9
5	Low-level CAM photosynthesis in a succulent-leaved member of the Urticaceae,. Functional Plant Biology, 2021, 48, 683-690.	2.1	21
6	Hydraulic traits of Neotropical canopy liana and tree species across a broad range of wood density: implications for predicting drought mortality with models. Tree Physiology, 2021, 41, 24-34.	3.1	17
7	Crassulacean acid metabolism (CAM) supersedes the turgor loss point (TLP) as an important adaptation across a precipitation gradient, in the genus. Functional Plant Biology, 2021, 48, 703-716.	2.1	16
8	Leaf water δ. Functional Plant Biology, 2021, 48, 732-742.	2.1	4
9	Diversity of CAM plant photosynthesis (crassulacean acid metabolism): a tribute to Barry Osmond. Functional Plant Biology, 2021, 48, iii.	2.1	2
10	Photosynthetic plasticity of a tropical tree species, <scp><i>Tabebuia rosea</i></scp> , in response to elevated temperature and [ <scp>CO<sub>2</sub></scp> ]. Plant, Cell and Environment, 2021, 44, 2347-2364.	5.7	17
11	Leaf heat tolerance of 147 tropical forest species varies with elevation and leaf functional traits, but not with phylogeny. Plant, Cell and Environment, 2021, 44, 2414-2427.	5 <b>.</b> 7	33
12	Evolution of crassulacean acid metabolism (CAM) as an escape from ecological niche conservatism in Malagasy <i>Bulbophyllum</i> (Orchidaceae). New Phytologist, 2021, 231, 1236-1248.	7.3	16
13	Large differences in leaf cuticle conductance and its temperature response among 24 tropical tree species from across a rainfall gradient. New Phytologist, 2021, 232, 1618-1631.	7.3	30
14	Constitutive and facultative crassulacean acid metabolism (CAM) in Cuban oregano,. Functional Plant Biology, 2021, 48, 647-654.	2.1	6
15	CAM photosynthesis in desert blooming. Functional Plant Biology, 2021, 48, 691-702.	2.1	8
16	Corrigendum to: Does the C4 plant Trianthema portulacastrum (Aizoaceae) exhibit weakly expressed crassulacean acid metabolism (CAM)?. Functional Plant Biology, 2021, 48, 1315.	2.1	0
17	TRY plant trait database – enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188.	9.5	1,038
18	Salinity responses of inland and coastal neotropical trees species. Plant Ecology, 2020, 221, 695-708.	1.6	5

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19	Occurrence of crassulacean acid metabolism in Colombian orchids determined by leaf carbon isotope ratios. Botanical Journal of the Linnean Society, 2020, 193, 431-477.	1.6	15
20	Similar temperature dependence of photosynthetic parameters in sun and shade leaves of three tropical tree species. Tree Physiology, 2020, 40, 637-651.	3.1	19
21	The Photosynthetic System in Tropical Plants Under High Irradiance and Temperature Stress. Progress in Botany Fortschritte Der Botanik, 2020, , 131-169.	0.3	O
22	Photosynthetic heat tolerance of shade and sun leaves of three tropical tree species. Photosynthesis Research, 2019, 141, 119-130.	2.9	46
23	Experimenting with domestication: Understanding macro- and micro-phenotypes and developmental plasticity in teosinte in its ancestral pleistocene and early holocene environments. Journal of Archaeological Science, 2019, 108, 104970.	2.4	9
24	Ecophysiology of constitutive and facultative CAM photosynthesis. Journal of Experimental Botany, 2019, 70, 6495-6508.	4.8	94
25	Facultative crassulacean acid metabolism in a C3–C4 intermediate. Journal of Experimental Botany, 2019, 70, 6571-6579.	4.8	25
26	Operating at the very low end of the crassulacean acid metabolism spectrum: Sesuvium portulacastrum (Aizoaceae). Journal of Experimental Botany, 2019, 70, 6561-6570.	4.8	15
27	High tolerance of tropical sapling growth and gas exchange to moderate warming. Functional Ecology, 2018, 32, 599-611.	3.6	43
28	Altered Gene Regulatory Networks Are Associated With the Transition From C3 to Crassulacean Acid Metabolism in Erycina (Oncidiinae: Orchidaceae). Frontiers in Plant Science, 2018, 9, 2000.	3.6	30
29	Optional use of CAM photosynthesis in two C4 species, Portulaca cyclophylla and Portulaca digyna. Journal of Plant Physiology, 2017, 214, 91-96.	3.5	30
30	<i>InÂsitu</i> temperature response of photosynthesis of 42 tree and liana species in the canopy of two Panamanian lowland tropical forests with contrasting rainfall regimes. New Phytologist, 2017, 214, 1103-1117.	7.3	129
31	Facultative crassulacean acid metabolism (CAM) in four small C3 and C4 leaf-succulents. Australian Journal of Botany, 2017, 65, 103.	0.6	24
32	In situ temperature relationships of biochemical and stomatal controls of photosynthesis in four lowland tropical tree species. Plant, Cell and Environment, 2017, 40, 3055-3068.	5.7	74
33	The Kalancho $\tilde{A}$ « genome provides insights into convergent evolution and building blocks of crassulacean acid metabolism. Nature Communications, 2017, 8, 1899.	12.8	159
34	Facultative CAM photosynthesis (crassulacean acid metabolism) in four species of Calandrinia, ephemeral succulents of arid Australia. Photosynthesis Research, 2017, 134, 17-25.	2.9	22
35	Photosynthetic acclimation to warming in tropical forest tree seedlings. Journal of Experimental Botany, 2017, 68, 2275-2284.	4.8	81
36	Reversible Burst of Transcriptional Changes during Induction of Crassulacean Acid Metabolism in <i>Talinum triangulare</i> ): Plant Physiology, 2016, 170, 102-122.	4.8	93

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37	Temperature response of CO2 exchange in three tropical tree species. Functional Plant Biology, 2016, 43, 468.	2.1	68
38	Protection by light against heat stress in leaves of tropical crassulacean acid metabolism plants containing high acid levels. Functional Plant Biology, 2016, 43, 1061.	2.1	16
39	Australia lacks stem succulents but is it depauperate in plants with crassulacean acid metabolism (CAM)?. Current Opinion in Plant Biology, 2016, 31, 109-117.	7.1	27
40	The effects of CO2 and nutrient fertilisation on the growth and temperature response of the mangrove Avicennia germinans. Photosynthesis Research, 2016, 129, 159-170.	2.9	41
41	The Effects of Rising Temperature on the Ecophysiology of Tropical Forest Trees. Tree Physiology, 2016, , 385-412.	2.5	36
42	Crassulacean acid metabolism: a continuous or discrete trait?. New Phytologist, 2015, 208, 73-78.	7.3	117
43	A roadmap for research on crassulacean acid metabolism ( <scp>CAM</scp> ) to enhance sustainable food and bioenergy production in a hotter, drier world. New Phytologist, 2015, 207, 491-504.	7.3	211
44	Photosynthetic pathways in Bromeliaceae: phylogenetic and ecological significance of CAM and C <sub>3</sub> based on carbon isotope ratios for 1893 species. Botanical Journal of the Linnean Society, 2015, 178, 169-221.	1.6	148
45	Cryptic crassulacean acid metabolism (CAM) in Jatropha curcas. Functional Plant Biology, 2015, 42, 711.	2.1	20
46	Light-stimulated heat tolerance in leaves of two neotropical tree species, Ficus insipida and Calophyllum longifolium. Functional Plant Biology, 2015, 42, 42.	2.1	39
47	Nocturnal versus diurnal CO2 uptake: how flexible is Agave angustifolia?. Journal of Experimental Botany, 2014, 65, 3695-3703.	4.8	15
48	Facultative crassulacean acid metabolism (CAM) plants: powerful tools for unravelling the functional elements of CAM photosynthesis. Journal of Experimental Botany, 2014, 65, 3425-3441.	4.8	180
49	Adaptive radiation, correlated and contingent evolution, and net species diversification in Bromeliaceae. Molecular Phylogenetics and Evolution, 2014, 71, 55-78.	2.7	333
50	Thermal acclimation of leaf respiration of tropical trees and lianas: response to experimental canopy warming, and consequences for tropical forest carbon balance. Global Change Biology, 2014, 20, 2915-2926.	9.5	96
51	Limited photosynthetic plasticity in the leaf-succulent CAM plant Agave angustifolia grown at different temperatures. Functional Plant Biology, 2014, 41, 843.	2.1	14
52	Multiple isoforms of phosphoenolpyruvate carboxylase in the Orchidaceae (subtribe Oncidiinae): implications for the evolution of crassulacean acid metabolism. Journal of Experimental Botany, 2014, 65, 3623-3636.	4.8	62
53	Environmental and physiological determinants of carbon isotope discrimination in terrestrial plants. New Phytologist, 2013, 200, 950-965.	7.3	475
54	Tropical forest responses to increasing atmospheric CO2: current knowledge and opportunities for future research. Functional Plant Biology, 2013, 40, 531.	2.1	118

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55	Thermal tolerance, net CO2 exchange and growth of a tropical tree species, Ficus insipida, cultivated at elevated daytime and nighttime temperatures. Journal of Plant Physiology, 2013, 170, 822-827.	3.5	46
56	Elevated nightâ€time temperatures increase growth in seedlings of two tropical pioneer tree species. New Phytologist, 2013, 197, 1185-1192.	7.3	65
57	Growth response and acclimation of CO2 exchange characteristics to elevated temperatures in tropical tree seedlings. Journal of Experimental Botany, 2013, 64, 3817-3828.	4.8	71
58	Photosynthesis, photoprotection, and growth of shade-tolerant tropical tree seedlings under full sunlight. Photosynthesis Research, 2012, 113, 273-285.	2.9	52
59	Photosynthesis, Reorganized. Science, 2011, 332, 311-312.	12.6	57
60	Induction and reversal of crassulacean acid metabolism in Calandrinia polyandra: effects of soil moisture and nutrients. Functional Plant Biology, 2011, 38, 576.	2.1	53
61	Responses of Legume Versus Nonlegume Tropical Tree Seedlings to Elevated CO2 Concentration Â. Plant Physiology, 2011, 157, 372-385.	4.8	64
62	Drought-stress-induced up-regulation of CAM in seedlings of a tropical cactus, Opuntia elatior, operating predominantly in the C3 mode. Journal of Experimental Botany, 2011, 62, 4037-4042.	4.8	42
63	<i>Karatophyllum bromelioides</i> L.D. G $\tilde{A}^3$ mez revisited: A probable fossil CAM bromeliad. American Journal of Botany, 2011, 98, 1905-1908.	1.7	10
64	High-temperature tolerance of a tropical tree, Ficus insipida: methodological reassessment and climate change considerations. Functional Plant Biology, 2010, 37, 890.	2.1	100
65	Evolution along the crassulacean acid metabolism continuum. Functional Plant Biology, 2010, 37, 995.	2.1	177
66	Crassulacean Acid Metabolism and Epiphytism Linked to Adaptive Radiations in the Orchidaceae. Plant Physiology, 2009, 149, 1838-1847.	4.8	194
67	Canopy CO2 exchange of two neotropical tree species exhibiting constitutive and facultative CAM photosynthesis, Clusia rosea and Clusia cylindrica. Journal of Experimental Botany, 2009, 60, 3167-3177.	4.8	19
68	Sun-shade patterns of leaf carotenoid composition in 86 species of neotropical forest plants. Functional Plant Biology, 2009, 36, 20.	2.1	80
69	Lutein epoxide cycle, light harvesting and photoprotection in species of the tropical tree genus <i>Inga</i> . Plant, Cell and Environment, 2008, 31, 548-561.	5.7	43
70	Oxygen isotope composition of CAM and C <sub>3</sub> <i>Clusia</i> species: nonâ€steadyâ€state dynamics control leaf water <sup>18</sup> O enrichment in succulent leaves. Plant, Cell and Environment, 2008, 31, 1644-1662.	5.7	24
71	Crassulacean acid metabolism in the ZZ plant, <i>Zamioculcas zamiifolia</i> (Araceae). American Journal of Botany, 2007, 94, 1670-1676.	1.7	43
72	Transpiration efficiency of a tropical pioneer tree (Ficus insipida) in relation to soil fertility. Journal of Experimental Botany, 2007, 58, 3549-3566.	4.8	101

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73	Environment or Development? Lifetime Net CO2 Exchange and Control of the Expression of Crassulacean Acid Metabolism in Mesembryanthemum crystallinum Â. Plant Physiology, 2007, 143, 98-107.	4.8	91
74	Photoprotection, photosynthesis and growth of tropical tree seedlings under near-ambient and strongly reduced solar ultraviolet-B radiation. Journal of Plant Physiology, 2007, 164, 1311-1322.	3.5	15
75	On the nature of facultative and constitutive CAM: environmental and developmental control of CAM expression during early growth of Clusia, Kalanchoe, and Opuntia. Journal of Experimental Botany, 2007, 59, 1829-1840.	4.8	124
76	Diversity, Phylogeny and Classification of Clusia., 2007,, 95-116.		41
77	Distribution of crassulacean acid metabolism in orchids of Panama: evidence of selection for weak and strong modes. Functional Plant Biology, 2005, 32, 397.	2.1	129
78	Carbon isotope composition of canopy leaves in a tropical forest in Panama throughout a seasonal cycle. Trees - Structure and Function, 2005, 19, 545-551.	1.9	40
79	The effects of salinity, crassulacean acid metabolism and plant age on the carbon isotope composition of Mesembryanthemum crystallinum L., a halophytic C3-CAM species. Planta, 2005, 222, 201-209.	3.2	63
80	Research note: Large gene family of phosphoenolpyruvate carboxylase in the crassulacean acid metabolism plant Kalanchoe pinnata (Crassulaceae) characterised by partial cDNA sequence analysis. Functional Plant Biology, 2005, 32, 467.	2.1	26
81	Growth irradiance effects on photosynthesis and growth in two coâ€occurring shadeâ€tolerant neotropical perennials of contrasting photosynthetic pathways. American Journal of Botany, 2005, 92, 1811-1819.	1.7	24
82	Carbon isotope composition and water-use efficiency in plants with crassulacean acid metabolism. Functional Plant Biology, 2005, 32, 381.	2.1	108
83	? 13C values and crassulacean acid metabolism in Clusia species from Panama. Trees - Structure and Function, 2004, 18, 658-668.	1.9	69
84	Do mature shade leaves of tropical tree seedlings acclimate to high sunlight and UV radiation?. Functional Plant Biology, 2004, 31, 743.	2.1	41
85	Multiple origins of crassulacean acid metabolism and the epiphytic habit in the Neotropical family Bromeliaceae. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3703-3708.	7.1	265
86	Photosynthetic CO 2 uptake in seedlings of two tropical tree species exposed to oscillating elevated concentrations of CO 2. Planta, 2003, 218, 152-158.	3.2	63
87	Sudden Exposure to Solar UV-B Radiation Reduces Net CO2 Uptake and Photosystem I Efficiency in Shade-Acclimated Tropical Tree Seedlings. Plant Physiology, 2003, 131, 745-752.	4.8	41
88	Capacity of protection against ultraviolet radiation in sun and shade leaves of tropical forest plants. Functional Plant Biology, 2003, 30, 533.	2.1	68
89	How Closely Do the Î 13C Values of Crassulacean Acid Metabolism Plants Reflect the Proportion of CO2 Fixed during Day and Night?. Plant Physiology, 2002, 129, 1843-1851.	4.8	167
90	Carbon isotope ratio and the extent of daily CAM use by Bromeliaceae. New Phytologist, 2002, 156, 75-83.	7.3	77

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91	Marked growth response of communities of two tropical tree species to elevated CO2 when soil nutrient limitation is removed. Flora: Morphology, Distribution, Functional Ecology of Plants, 2001, 196, 47-58.	1.2	26
92	Hydrophobic trichome layers and epicuticular wax powders in Bromeliaceae. American Journal of Botany, 2001, 88, 1371-1389.	1.7	93
93	WHOLE-PLANT CONSEQUENCES OF CRASSULACEAN ACID METABOLISM FOR A TROPICAL FOREST UNDERSTORY PLANT. Ecology, 1999, 80, 1584-1593.	3.2	24
94	Degrees of crassulacean acid metabolism in tropical epiphytic and lithophytic ferns. Functional Plant Biology, 1999, 26, 749.	2.1	47
95	Effects of Solar Ultraviolet Radiation on the Potential Efficiency of Photosystem II in Leaves of Tropical Plants. Plant Physiology, 1999, 121, 1349-1358.	4.8	66
96	Responses of communities of tropical tree species to elevated CO 2 in a forest clearing. Oecologia, 1998, 116, 207-218.	2.0	50
97	Elevated CO2 enhances growth in the rain forest understory plant, Piper cordulatum, at extremely low light intensities. Flora: Morphology, Distribution, Functional Ecology of Plants, 1998, 193, 323-326.	1.2	11
98	Low inactivation of D1 protein of photosystem II in young canopy leaves of Anacardium excelsum under high-light stress. Journal of Plant Physiology, 1997, 151, 286-292.	3.5	45
99	Increased xanthophyll cycle activity and reduced D1 protein inactivation related to photoinhibition in two plant systems acclimated to excess light. Plant Science, 1996, 115, 237-250.	3.6	103
100	High rates of photosynthesis in the tropical pioneer tree, Ficus insipida Willd Flora: Morphology, Distribution, Functional Ecology of Plants, 1995, 190, 265-272.	1.2	57
101	High susceptibility to photoinhibition of young leaves of tropical forest trees. Planta, 1995, 197, 583.	3.2	155
102	Xanthophyll-cycle pigments and photosynthetic capacity in tropical forest species: a comparative field study on canopy, gap and understory plants. Oecologia, 1995, 104, 280-290.	2.0	77
103	The response of five tropical dicotyledon species to solar ultravioletâ€B radiation. American Journal of Botany, 1995, 82, 445-453.	1.7	94
104	Annual carbon balance and nitrogenâ€use efficiency in tropical C 3 and CAM epiphytes. New Phytologist, 1994, 126, 481-492.	7.3	68
105	A oneâ€year study on carbon, water and nutrient relationships in a tropical C 3  AM hemiâ€epiphyte, Clusia uvitana Pittier. New Phytologist, 1994, 127, 45-60.	7.3	57
106	Light and dark CO2 fixation in Clusia uvitana and the effects of plant water status and CO2 availability. Oecologia, 1992, 91, 47-51.	2.0	60
107	Induction of crassulacean acid metabolism in Mesembryanthemum crystallinum increases reproductive success under conditions of drought and salinity stress. Oecologia, 1992, 92, 475-479.	2.0	64
108	Diurnal changes in chlorophylla fluorescence and carotenoid composition in Opuntia ficus-indica, a CAM plant, and in three C3 species in Portugal during summer. Oecologia, 1992, 91, 505-510.	2.0	48

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109	Regulatory protein phosphorylation of phosphoenolpyruvate carboxylase in the facultative crassulacean-acid-metabolism plant. Mesembryanthemum crystallinum L FEBS Journal, 1992, 209, 95-101.	0.2	51
110	Daily Changes in CO <sub>2</sub> and Water Vapor Exchange, Chlorophyll Fluorescence, and Leaf Water Relations in the Halophyte <i>Mesembryanthemum crystallinum</i> during the Induction of Crassulacean Acid Metabolism in Response to High NaCl Salinity. Plant Physiology, 1991, 95, 768-776.	4.8	84
111	Photoinhibition and Zeaxanthin Formation in Intact Leaves. Plant Physiology, 1987, 84, 218-224.	4.8	716
112	Day/night variations in turgor pressure in individual cells of Mesembryanthemum crystallinum L Oecologia, 1986, 69, 171-175.	2.0	30
113	Photosynthetic characteristics of chloroplasts isolated fromMesembryanthemum crystallinum L., a halophilic plant capable of Crassulacean acid metabolism. Planta, 1983, 159, 66-76.	3.2	31
114	Crassulacean acid metabolism in australian vascular epiphytes and some related species. Oecologia, 1983, 57, 129-141.	2.0	216
115	Light-Stimulated Burst of Carbon Dioxide Uptake following Nocturnal Acidification in the Crassulacean Acid Metabolism Plant Kalanchoë diagremontiana. Plant Physiology, 1982, 70, 1718-1722.	4.8	30
116	Influence of Nitrate and Ammonia on Photosynthetic Characteristics and Leaf Anatomy of <i>Moricandia arvensis</i> . Plant Physiology, 1982, 70, 616-625.	4.8	67
117	Intracellular Localization of Enzymes of Carbon Metabolism in <i>Mesembryanthemum crystallinum</i> Exhibiting C <sub>3</sub> Photosynthetic Characteristics or Performing Crassulacean Acid Metabolism. Plant Physiology, 1982, 69, 300-307.	4.8	165
118	Properties of phosphoenolpyruvate carboxylase in rapidly prepared, desalted leaf extracts of the Crassulacean acid metabolism plant Mesembryanthemum crystallinum L Planta, 1982, 154, 298-308.	3.2	102
119	Activity of enzymes of carbon metabolism during the induction of Crassulacean acid metabolism in Mesembryanthemum crystallinum L Planta, 1982, 155, 8-16.	3.2	160
120	C4 plants of high biomass in arid regions of asia-occurrence of C4 photosynthesis in Chenopodiaceae and Polygonaceae from the Middle East and USSR. Oecologia, 1981, 48, 100-106.	2.0	132
121	?13C values of some succulent plants from Madagascar. Oecologia, 1979, 40, 103-112.	2.0	64
122	Seasonal shift from C3 photosynthesis to Crassulacean Acid Metabolism in Mesembryanthemum crystallinum growing in its natural environment. Oecologia, 1978, 34, 225-237.	2.0	164
123	Carbon Assimilation Pathways in Mesembryanthemum nodiflorum L. under Natural Conditions. Zeitschrift Fýr Pflanzenphysiologie, 1978, 88, 153-162.	1.4	32
124	Mineral Ion composition and occurrence of CAM-like diurnal malate fluctuations in plants of coastal and desert habitats of israel and the Sinai. Oecologia, 1976, 25, 125-143.	2.0	40
125	Evidence for the significance of crassulacean acid metabolism as an adaptive mechanism to water stress. Plant Science Letters, 1974, 3, 279-281.	1.8	35
126	14CO2 dark fixation in the halophytic species mesembryanthemum crystallinum. Biochimica Et Biophysica Acta - General Subjects, 1974, 343, 465-468.	2.4	12

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127	NaCl-induzierter crassulaceensÃ <b>u</b> restoffwechsel bei Mesembryanthemum crystallinum. Zeitschrift Für Pflanzenphysiologie, 1972, 67, 166-170.	1.4	198
128	The incidence of crassulacean acid metabolism in Orchidaceae derived from carbon isotope ratios: a checklist of the flora of Panama and Costa Rica. Botanical Journal of the Linnean Society, 0, 163, 194-222.	1.6	65