

Carl-Otto Ottosen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

2,198
citations

27
h-index

44
g-index

90
ext. papers

2,893
ext. citations

4.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
86	Elevated CO Improves the Physiology but Not the Final Yield in Spring Wheat Genotypes Subjected to Heat and Drought Stress During Anthesis.. <i>Frontiers in Plant Science</i> , 2022 , 13, 824476	6.2	3
85	Phenotyping to dissect the biostimulant action of a protein hydrolysate in tomato plants under combined abiotic stress.. <i>Plant Physiology and Biochemistry</i> , 2022 , 179, 32-43	5.4	2
84	Crop exposure to heat stress: responses in physiological, biochemical, and molecular levels 2022 , 43-57		
83	Elevated CO concentration increases photosynthetic sensitivity to nitrogen supply of sorghum in a genotype-dependent manner. <i>Plant Physiology and Biochemistry</i> , 2021 , 168, 202-210	5.4	0
82	The effect of individual and combined drought and heat stress under elevated CO on physiological responses in spring wheat genotypes. <i>Plant Physiology and Biochemistry</i> , 2021 , 162, 301-314	5.4	4
81	Whole-Genome Sequence of Synthesized Allopolyploids in Reveals Insights into the Genome Evolution of Allopolyploidization. <i>Advanced Science</i> , 2021 , 8, 2004222	13.6	9
80	Investigating Combined Drought- and Heat Stress Effects in Wheat under Controlled Conditions by Dynamic Image-Based Phenotyping. <i>Agronomy</i> , 2021 , 11, 364	3.6	8
79	Effects of high temperature during anthesis and grain filling on physiological characteristics of winter wheat cultivars. <i>Journal of Agronomy and Crop Science</i> , 2021 , 207, 823-832	3.9	8
78	Incorporating cultivar-specific stomatal traits into stomatal conductance models improves the estimation of evapotranspiration enhancing greenhouse climate management. <i>Biosystems Engineering</i> , 2021 , 208, 131-151	4.8	4
77	Effects of UV radiation on transcript and metabolite accumulation are dependent on monochromatic light background in cucumber. <i>Physiologia Plantarum</i> , 2021 , 173, 750-761	4.6	1
76	Intermittent moisture supply induces drought priming responses in some heat-tolerant chickpea genotypes. <i>Crop Science</i> , 2020 , 60, 2527-2542	2.4	6
75	Genotype-dependent responses of chickpea to high temperature and moderately increased light. <i>Plant Physiology and Biochemistry</i> , 2020 , 154, 353-359	5.4	2
74	Interactive effects of elevated CO concentration and combined heat and drought stress on tomato photosynthesis. <i>BMC Plant Biology</i> , 2020 , 20, 260	5.3	18
73	Unique miRNAs and their targets in tomato leaf responding to combined drought and heat stress. <i>BMC Plant Biology</i> , 2020 , 20, 107	5.3	17
72	Combined high light and heat stress induced complex response in tomato with better leaf cooling after heat priming. <i>Plant Physiology and Biochemistry</i> , 2020 , 151, 1-9	5.4	15
71	High Throughput Sequencing of circRNAs in Tomato Leaves Responding to Multiple Stresses of Drought and Heat. <i>Horticultural Plant Journal</i> , 2020 , 6, 34-38	4.3	6
70	Genotypic and phenotypic differences in fresh weight partitioning of cut rose stems: implications for water loss. <i>Acta Physiologiae Plantarum</i> , 2020 , 42, 1	2.6	16

69	Using artificial lighting based on electricity price without a negative impact on growth, visual quality or stomatal closing response in Passiflora. <i>Scientia Horticulturae</i> , 2020 , 267, 109354	4.1	23
68	Stress tolerant traits and root proliferation of <i>Aspalathus linearis</i> (Burm.f.) R. Dahlgren grown under differing moisture regimes and exposed to drought. <i>South African Journal of Botany</i> , 2020 , 131, 342-350	2.9	1
67	Effect of temperature on plant growth and stress tolerant traits in rooibos in the Western Cape, South Africa. <i>Scientia Horticulturae</i> , 2020 , 263, 109137	4.1	3
66	Inherent trait differences explain wheat cultivar responses to climate factor interactions: New insights for more robust crop modelling. <i>Global Change Biology</i> , 2020 , 26, 5965-5978	11.4	1
65	The Alleviation of Photosynthetic Damage in Tomato under Drought and Cold Stress by High CO ₂ and Melatonin. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
64	Drought priming effects on alleviating the photosynthetic limitations of wheat cultivars (<i>Triticum aestivum</i> L.) with contrasting tolerance to abiotic stresses. <i>Journal of Agronomy and Crop Science</i> , 2020 , 206, 651-664	3.9	5
63	Spectral Composition of Light Affects Sensitivity to UV-B and Photoinhibition in Cucumber. <i>Frontiers in Plant Science</i> , 2020 , 11, 610011	6.2	10
62	Physiological analysis and transcriptome sequencing reveal the effects of combined cold and drought on tomato leaf. <i>BMC Plant Biology</i> , 2019 , 19, 377	5.3	27
61	Oxidative damage and antioxidant mechanism in tomatoes responding to drought and heat stress. <i>Acta Physiologiae Plantarum</i> , 2019 , 41, 1	2.6	26
60	Chlorophyll fluorescence and carbohydrate concentration as field selection traits for heat tolerant chickpea genotypes. <i>Plant Physiology and Biochemistry</i> , 2019 , 141, 172-182	5.4	18
59	The Phenotyping Dilemma-The Challenges of a Diversified Phenotyping Community. <i>Frontiers in Plant Science</i> , 2019 , 10, 163	6.2	13
58	Physiological response of tomatoes at drought, heat and their combination followed by recovery. <i>Physiologia Plantarum</i> , 2019 , 165, 144-154	4.6	36
57	DynaGrow: Next Generation Software for Multi-Objective and Energy Cost-Efficient Control of Supplemental Light in Greenhouses. <i>Studies in Computational Intelligence</i> , 2019 , 25-44	0.8	2
56	Stomatal anatomy and closing ability is affected by supplementary light intensity in rose (<i>Rosa hybrida</i> L.). <i>Zahradnictvi (Prague, Czech Republic: 1992)</i> , 2019 , 46, 81-89	1.1	20
55	Allopolyploidization in <i>Cucumis</i> contributes to delayed leaf maturation with repression of redundant homoeologous genes. <i>Plant Journal</i> , 2018 , 94, 393-404	6.9	10
54	Phenotyping of faba beans (<i>Vicia faba</i> L.) under cold and heat stresses using chlorophyll fluorescence. <i>Euphytica</i> , 2018 , 214, 1	2.1	34
53	Evaluation of temperature stress tolerance in cultivated and wild tomatoes using photosynthesis and chlorophyll fluorescence. <i>Horticulture Environment and Biotechnology</i> , 2018 , 59, 499-509	2	21
52	Phenotyping from lab to field - tomato lines screened for heat stress using F/F maintain high fruit yield during thermal stress in the field. <i>Functional Plant Biology</i> , 2018 , 46, 44-55	2.7	37

51	Heat priming effects on anthesis heat stress in wheat cultivars (<i>Triticum aestivum</i> L.) with contrasting tolerance to heat stress. <i>Plant Physiology and Biochemistry</i> , 2018 , 132, 213-221	5.4	14
50	Physiological Response to Heat Stress During Seedling and Anthesis Stage in Tomato Genotypes Differing in Heat Tolerance. <i>Journal of Agronomy and Crop Science</i> , 2017 , 203, 68-80	3.9	46
49	Drought stress had a predominant effect over heat stress on three tomato cultivars subjected to combined stress. <i>BMC Plant Biology</i> , 2017 , 17, 24	5.3	149
48	Differential effects of elevated air humidity on stomatal closing ability of <i>Kalanchoë blossfeldiana</i> between the C3 and CAM states. <i>Environmental and Experimental Botany</i> , 2017 , 143, 115-124	5.9	14
47	Temperature Variation under Continuous Light Restores Tomato Leaf Photosynthesis and Maintains the Diurnal Pattern in Stomatal Conductance. <i>Frontiers in Plant Science</i> , 2017 , 8, 1602	6.2	17
46	QTLs and Potential Candidate Genes for Heat Stress Tolerance Identified from the Mapping Populations Specifically Segregating for δ in Wheat. <i>Frontiers in Plant Science</i> , 2017 , 8, 1668	6.2	43
45	Effects of HPS and LED lighting on cucumber leaf photosynthesis, light quality penetration and temperature in the canopy, plant morphology and yield. <i>Agricultural and Food Science</i> , 2017 , 26,	2	27
44	Improving stomatal functioning at elevated growth air humidity: A review. <i>Journal of Plant Physiology</i> , 2016 , 207, 51-60	3.6	50
43	Antitranspirant compounds alleviate the mild-desiccation-induced reduction of vase life in cut roses. <i>Postharvest Biology and Technology</i> , 2016 , 117, 110-117	6.2	25
42	Evaluation of genotypic variation during leaf development in four <i>Cucumis</i> genotypes and their response to high light conditions. <i>Environmental and Experimental Botany</i> , 2016 , 124, 100-109	5.9	7
41	DynaGrow – Multi-Objective Optimization for Energy Cost-efficient Control of Supplemental Light in Greenhouses 2016 ,		8
40	A coupled model of leaf photosynthesis, stomatal conductance, and leaf energy balance for chrysanthemum (<i>Dendranthema grandiflora</i>). <i>Computers and Electronics in Agriculture</i> , 2016 , 123, 264-274	6.5	18
39	Wheat cultivars selected for high F_v/F_m under heat stress maintain high photosynthesis, total chlorophyll, stomatal conductance, transpiration and dry matter. <i>Physiologia Plantarum</i> , 2015 , 153, 284-298	4.6	158
38	Predawn and high intensity application of supplemental blue light decreases the quantum yield of PSII and enhances the amount of phenolic acids, flavonoids, and pigments in <i>Lactuca sativa</i> . <i>Frontiers in Plant Science</i> , 2015 , 6, 19	6.2	73
37	Recovery of tomato (<i>Solanum lycopersicum</i> L.) leaves from continuous light induced injury. <i>Journal of Plant Physiology</i> , 2015 , 185, 24-30	3.6	4
36	Daily temperature drop prevents inhibition of photosynthesis in tomato plants under continuous light. <i>Photosynthetica</i> , 2015 , 53, 389-394	2.2	13
35	Using the quantum yields of photosystem II and the rate of net photosynthesis to monitor high irradiance and temperature stress in chrysanthemum (<i>Dendranthema grandiflora</i>). <i>Plant Physiology and Biochemistry</i> , 2015 , 90, 14-22	5.4	23
34	Pore size regulates operating stomatal conductance, while stomatal densities drive the partitioning of conductance between leaf sides. <i>Annals of Botany</i> , 2015 , 115, 555-65	4.1	76

33	Spectral effects of LEDs on chlorophyll fluorescence and pigmentation in Phalaenopsis Vivien and Purple Star. <i>Physiologia Plantarum</i> , 2015 , 154, 314-27	4.6	33
32	3D Laser Triangulation for Plant Phenotyping in Challenging Environments. <i>Sensors</i> , 2015 , 15, 13533-47	3.8	48
31	Continuous light increases growth, daily carbon gain, antioxidants, and alters carbohydrate metabolism in a cultivated and a wild tomato species. <i>Frontiers in Plant Science</i> , 2015 , 6, 522	6.2	33
30	Interspecific hybridization in Cucumis leads to the divergence of phenotypes in response to low light and extended photoperiods. <i>Frontiers in Plant Science</i> , 2015 , 6, 802	6.2	9
29	Spectral Effects of Artificial Light on Plant Physiology and Secondary Metabolism: A Review. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2015 , 50, 1128-1135	2.4	148
28	Screening and validation of tomato genotypes under heat stress using Fv/Fm to reveal the physiological mechanism of heat tolerance. <i>Environmental and Experimental Botany</i> , 2015 , 118, 1-11	5.9	88
27	Genotypic response of detached leaves versus intact plants for chlorophyll fluorescence parameters under high temperature stress in wheat. <i>Journal of Plant Physiology</i> , 2014 , 171, 576-86	3.6	34
26	Spectral effects of supplementary lighting on the secondary metabolites in roses, chrysanthemums, and campanulas. <i>Journal of Plant Physiology</i> , 2014 , 171, 1491-9	3.6	82
25	Heat stress and recovery of photosystem II efficiency in wheat (<i>Triticum aestivum</i> L.) cultivars acclimated to different growth temperatures. <i>Environmental and Experimental Botany</i> , 2014 , 99, 1-8	5.9	45
24	Photoperiodic variations induce shifts in the leaf metabolic profile of <i>Chrysanthemum morifolium</i> . <i>Functional Plant Biology</i> , 2014 , 41, 1310-1322	2.7	6
23	Threshold response of stomatal closing ability to leaf abscisic acid concentration during growth. <i>Journal of Experimental Botany</i> , 2014 , 65, 4361-70	7	49
22	Smaller stomata require less severe leaf drying to close: a case study in <i>Rosa hybrida</i> . <i>Journal of Plant Physiology</i> , 2013 , 170, 1309-16	3.6	61
21	Foliar abscisic acid content underlies genotypic variation in stomatal responsiveness after growth at high relative air humidity. <i>Annals of Botany</i> , 2013 , 112, 1857-67	4.1	41
20	The Alleviating Effect of Elevated CO ₂ on Heat Stress Susceptibility of Two Wheat (<i>Triticum aestivum</i> L.) Cultivars. <i>Journal of Agronomy and Crop Science</i> , 2013 , 199, 340-350	3.9	47
19	High temperature stress monitoring and detection using chlorophyll a fluorescence and infrared thermography in chrysanthemum (<i>Dendranthema grandiflora</i>). <i>Plant Physiology and Biochemistry</i> , 2013 , 67, 87-94	5.4	40
18	The effect of temperature on photosynthetic induction under fluctuating light in <i>Chrysanthemum morifolium</i> . <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 1179-1188	2.6	7
17	Phenotyping of wheat cultivars for heat tolerance using chlorophyll a fluorescence. <i>Functional Plant Biology</i> , 2012 , 39, 936-947	2.7	69
16	Timing growth and development of <i>Campanula</i> by daily light integral and supplemental light level in a cost-efficient light control system. <i>Scientia Horticulturae</i> , 2012 , 143, 189-196	4.1	19

15	Simulation of leaf photosynthesis of C3 plants under fluctuating light and different temperatures. <i>Acta Physiologiae Plantarum</i> , 2012 , 34, 2319-2329	2.6	4
14	Rapid adjustment in chrysanthemum carbohydrate turnover and growth activity to a change in time-of-day application of light and daylength. <i>Functional Plant Biology</i> , 2012 , 39, 639-649	2.7	8
13	Cost-efficient light control for production of two campanula species. <i>Scientia Horticulturae</i> , 2011 , 129, 825-831	4.1	21
12	Automatic identification of crop and weed species with chlorophyll fluorescence induction curves. <i>Precision Agriculture</i> , 2011 , 12, 546-563	5.6	21
11	Growth of Chrysanthemum in Response to Supplemental Light Provided by Irregular Light Breaks during the Night. <i>Journal of the American Society for Horticultural Science</i> , 2011 , 136, 3-9	2.3	15
10	Canopy Photosynthesis and Time-of-day Application of Supplemental Light. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009 , 44, 1284-1290	2.4	10
9	Effect of a Dynamic Climate on Energy Consumption and Production of Hibiscus rosa-sinensis L. in Greenhouses. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006 , 41, 384-388 ⁴	2.4	9
8	Effects of air humidity and K:Ca ratio on growth, morphology, flowering and keeping quality of pot roses. <i>Scientia Horticulturae</i> , 2001 , 90, 131-141	4.1	15
7	Effects of root restriction on the growth and physiology of cucumber plants. <i>Physiologia Plantarum</i> , 1999 , 105, 434-441	4.6	38
6	Response to Phosphorus Availability during Vegetative and Reproductive Growth of Chrysanthemum: I. Whole-plant Carbon Dioxide Exchange. <i>Journal of the American Society for Horticultural Science</i> , 1998 , 123, 215-222	2.3	13
5	Net Photosynthesis of Schefflera arboricola Hayata Clones at Different CO ₂ Concentration and Photosynthetic Flux Densities. <i>Acta Agriculturae Scandinavica - Section B Soil and Plant Science</i> , 1994 , 44, 248-250	1.1	
4	Oxygen evolution in clones of Ficus benjamina L. grown in different environmental conditions. <i>Scientia Horticulturae</i> , 1991 , 48, 311-318	4.1	
3	Growth Versus Net Photosynthesis in Clones of Ficus benjamina. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 1990 , 25, 956-957	2.4	3
2	Male Bumblebees (<i>Bombus hortorum</i> L.) as Pollinators of <i>Lonicera periclymenum</i> L. in N.E.-Zealand, Denmark. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 1987 , 179, 155-161	1.9	1
1	Pollination Ecology of <i>Lonicera periclymenum</i> L. in NE.-Zealand, Denmark: Floral Development, Nectar Production and Insect Visits. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 1986 , 178, 271-279	1.9	3