

# Michael Tausz

## List of Publications by Citations

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168  
papers

5,136  
citations

35  
h-index

64  
g-index

174  
ext. papers

5,831  
ext. citations

4.9  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
168	Increasing CO <sub>2</sub> threatens human nutrition. <i>Nature</i> , <b>2014</b> , 510, 139-42	50.4	762
167	The glutathione system as a stress marker in plant ecophysiology: is a stress-response concept valid?. <i>Journal of Experimental Botany</i> , <b>2004</b> , 55, 1955-62	7	327
166	Complex interactive effects of drought and ozone stress on the antioxidant defence systems of two wheat cultivars. <i>Plant Physiology and Biochemistry</i> , <b>2002</b> , 40, 691-696	5.4	127
165	Enhanced ozone strongly reduces carbon sink strength of adult beech ( <i>Fagus sylvatica</i> )--resume from the free-air fumigation study at Kranzberg Forest. <i>Environmental Pollution</i> , <b>2010</b> , 158, 2527-32	9.3	123
164	Extraordinary drought of 2003 overrules ozone impact on adult beech trees ( <i>Fagus sylvatica</i> ). <i>Trees - Structure and Function</i> , <b>2006</b> , 20, 539-548	2.6	120
163	Elevated atmospheric [CO <sub>2</sub> ] can dramatically increase wheat yields in semi-arid environments and buffer against heat waves. <i>Global Change Biology</i> , <b>2016</b> , 22, 2269-84	11.4	107
162	Biochemical responses in leaves of two apple tree cultivars subjected to progressing drought. <i>Journal of Plant Physiology</i> , <b>2005</b> , 162, 1308-18	3.6	106
161	Growth and yield stimulation under elevated CO <sub>2</sub> and drought: A meta-analysis on crops. <i>Environmental and Experimental Botany</i> , <b>2016</b> , 122, 150-157	5.9	85
160	Contrasting physiological responses of six eucalyptus species to water deficit. <i>Annals of Botany</i> , <b>2007</b> , 100, 1507-15	4.1	84
159	Cyclitols and carbohydrates in leaves and roots of 13 Eucalyptus species suggest contrasting physiological responses to water deficit. <i>Plant, Cell and Environment</i> , <b>2006</b> , 29, 2017-29	8.4	81
158	Defense and avoidance of ozone under global change. <i>Environmental Pollution</i> , <b>2007</b> , 147, 525-31	9.3	80
157	Age effects on Norway spruce ( <i>Picea abies</i> ) susceptibility to ozone uptake: a novel approach relating stress avoidance to defense. <i>Tree Physiology</i> , <b>2002</b> , 22, 583-90	4.2	80
156	Internal conductance to CO <sub>2</sub> transfer of adult <i>Fagus sylvatica</i> : Variation between sun and shade leaves and due to free-air ozone fumigation. <i>Environmental and Experimental Botany</i> , <b>2007</b> , 59, 130-138	5.9	74
155	Synopsis of the CASIROZ case study: carbon sink strength of <i>Fagus sylvatica</i> L. in a changing environment--experimental risk assessment of mitigation by chronic ozone impact. <i>Plant Biology</i> , <b>2007</b> , 9, 163-80	3.7	74
154	Understanding crop physiology to select breeding targets and improve crop management under increasing atmospheric CO <sub>2</sub> concentrations. <i>Environmental and Experimental Botany</i> , <b>2013</b> , 88, 71-80	5.9	73
153	Summer-time distribution of air pollutants in Sequoia National Park, California. <i>Environmental Pollution</i> , <b>2002</b> , 118, 187-203	9.3	73
152	Measuring antioxidants in tree species in the natural environment: from sampling to data evaluation. <i>Journal of Experimental Botany</i> , <b>2003</b> , 54, 1505-10	7	69

151	Rising atmospheric CO <sub>2</sub> concentration affects mineral nutrient and protein concentration of wheat grain. <i>Food Chemistry</i> , <b>2012</b> , 133, 1307-1311	8.5	64
150	Elevated CO <sub>2</sub> alters grain quality of two bread wheat cultivars grown under different environmental conditions. <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 185, 24-33	5.7	60
149	Detecting different levels of drought stress in apple trees ( <i>Malus domestica</i> Borkh.) with selected biochemical and physiological parameters. <i>Scientia Horticulturae</i> , <b>2007</b> , 113, 362-369	4.1	57
148	Tree age dependence and within-canopy variation of leaf gas exchange and antioxidative defence in <i>Fagus sylvatica</i> under experimental free-air ozone exposure. <i>Environmental Pollution</i> , <b>2005</b> , 137, 476-82	8.3	56
147	Can a wheat cultivar with high transpiration efficiency maintain its yield advantage over a near-isogenic cultivar under elevated CO <sub>2</sub> ?. <i>Field Crops Research</i> , <b>2012</b> , 133, 160-166	5.5	51
146	Elevated carbon dioxide changes grain protein concentration and composition and compromises baking quality. A FACE study. <i>Journal of Cereal Science</i> , <b>2014</b> , 60, 461-470	3.8	48
145	Effects of ozone and mild drought stress on gas exchange, antioxidants and chloroplast pigments in current-year needles of young Norway spruce [. <i>Trees - Structure and Function</i> , <b>1998</b> , 12, 482	2.6	48
144	Does rainfall explain variation in leaf morphology and physiology among populations of red ironbark ( <i>Eucalyptus sideroxylon</i> subsp. <i>tricarpa</i> ) grown in a common garden?. <i>Tree Physiology</i> , <b>2005</b> , 25, 1369-78	4.2	47
143	Does a freely tillering wheat cultivar benefit more from elevated CO <sub>2</sub> than a restricted tillering cultivar in a water-limited environment?. <i>European Journal of Agronomy</i> , <b>2015</b> , 64, 21-28	5	46
142	Changes in antioxidant and pigment pool dimensions in UV-B irradiated maize seedlings. <i>Environmental and Experimental Botany</i> , <b>2003</b> , 50, 149-157	5.9	46
141	Dynamic light use and protection from excess light in upper canopy and coppice leaves of <i>Nothofagus cunninghamii</i> in an old growth, cool temperate rainforest in Victoria, Australia. <i>New Phytologist</i> , <b>2005</b> , 165, 143-55	9.8	42
140	The influence of microclimate and tree age on the defense capacity of European beech ( <i>Fagus sylvatica</i> L.) against oxidative stress. <i>Annals of Forest Science</i> , <b>2003</b> , 60, 131-135	3.1	40
139	Effects of drought on needle anatomy of <i>Pinus canariensis</i> . <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2004</b> , 199, 85-89	1.9	39
138	Intra-specific variation of wheat grain quality in response to elevated [CO <sub>2</sub> ] at two sowing times under rain-fed and irrigation treatments. <i>Journal of Cereal Science</i> , <b>2014</b> , 59, 137-144	3.8	38
137	Benefits of increasing transpiration efficiency in wheat under elevated CO <sub>2</sub> for rainfed regions. <i>Global Change Biology</i> , <b>2018</b> , 24, 1965-1977	11.4	37
136	Intraspecific variation in growth and yield response to elevated CO <sub>2</sub> in wheat depends on the differences of leaf mass per unit area. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 185-194	2.7	37
135	Ecotype adaptation and acclimation of leaf traits to rainfall in 29 species of 16-year-old <i>Eucalyptus</i> at two common gardens. <i>Functional Ecology</i> , <b>2006</b> , 20, 929-940	5.6	36
134	Will intra-specific differences in transpiration efficiency in wheat be maintained in a high CO <sub>2</sub> world? A FACE study. <i>Physiologia Plantarum</i> , <b>2013</b> , 148, 232-45	4.6	35

133	Responses of foliar antioxidative and photoprotective defence systems of trees to drought: a meta-analysis. <i>Tree Physiology</i> , <b>2013</b> , 33, 1018-29	4.2	35
132	Expression patterns of C- and N-metabolism related genes in wheat are changed during senescence under elevated CO <sub>2</sub> in dry-land agriculture. <i>Plant Science</i> , <b>2015</b> , 236, 239-49	5.3	35
131	Physiological Responses of Norway Spruce Trees to Elevated CO <sub>2</sub> and SO <sub>2</sub> . <i>Journal of Plant Physiology</i> , <b>1996</b> , 148, 362-367	3.6	35
130	Rising CO <sub>2</sub> concentration altered wheat grain proteome and flour rheological characteristics. <i>Food Chemistry</i> , <b>2015</b> , 170, 448-54	8.5	34
129	Wheat grain quality under increasing atmospheric CO <sub>2</sub> concentrations in a semi-arid cropping system. <i>Journal of Cereal Science</i> , <b>2012</b> , 56, 684-690	3.8	34
128	Photosynthetic capacity of Eucalyptus globulus is higher when grown in mixture with Acacia mearnsii. <i>Trees - Structure and Function</i> , <b>2012</b> , 26, 1203-1213	2.6	34
127	Edge microclimate of temperate woodlands as affected by adjoining land use. <i>Agricultural and Forest Meteorology</i> , <b>2010</b> , 150, 1138-1146	5.8	34
126	Antioxidative defence of old growth beech ( <i>Fagus sylvatica</i> ) under double ambient O <sub>3</sub> concentrations in a free-air exposure system. <i>Plant Biology</i> , <b>2007</b> , 9, 215-26	3.7	34
125	Effects of weak 16 3/2 Hz magnetic fields on growth parameters of young sunflower and wheat seedlings. <i>Bioelectromagnetics</i> , <b>2004</b> , 25, 638-41	1.6	34
124	Multivariate patterns of biochemical responses of <i>Pinus ponderosa</i> trees at field plots in the San Bernardino Mountains, southern California. <i>Tree Physiology</i> , <b>2001</b> , 21, 329-36	4.2	34
123	Tree- and needle-age-dependent variations in antioxidants and photoprotective pigments in Norway spruce needles at the alpine timberline. <i>Tree Physiology</i> , <b>2002</b> , 22, 591-6	4.2	34
122	Short-term changes in free radical scavengers and chloroplast pigments in <i>Pinus canariensis</i> needles as affected by mild drought stress. <i>Journal of Plant Physiology</i> , <b>2001</b> , 158, 213-219	3.6	34
121	The Measurement of Wood Decay in Landscape Trees. <i>Arboriculture and Urban Forestry</i> , <b>2010</b> , 36, 121-127	5	34
120	The relationship between transpiration and nutrient uptake in wheat changes under elevated atmospheric CO <sub>2</sub> . <i>Physiologia Plantarum</i> , <b>2018</b> , 163, 516-529	4.6	33
119	A survey of foliar mineral nutrient concentrations of <i>Pinus canariensis</i> at field plots in Tenerife. <i>Forest Ecology and Management</i> , <b>2004</b> , 189, 49-55	3.9	31
118	Yield, growth and grain nitrogen response to elevated CO <sub>2</sub> in six lentil ( <i>Lens culinaris</i> ) cultivars grown under Free Air CO <sub>2</sub> Enrichment (FACE) in a semi-arid environment. <i>European Journal of Agronomy</i> , <b>2017</b> , 87, 50-58	5	30
117	Elevated CO <sub>2</sub> alleviates the negative impact of heat stress on wheat physiology but not on grain yield. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 6447-6459	7	30
116	Elevated CO <sub>2</sub> decreases both transpiration flow and concentrations of Ca and Mg in the xylem sap of wheat. <i>Journal of Plant Physiology</i> , <b>2015</b> , 174, 157-60	3.6	30

115	The Role of Glutathione in Plant Response and Adaptation to Natural Stress. <i>Plant Ecophysiology</i> , <b>2001</b> , 101-122		28
114	Canopy transpiration of Jeffrey pine in mesic and xeric microsites: O <sub>3</sub> uptake and injury response. <i>Trees - Structure and Function</i> , <b>2003</b> , 17, 292-298	2.6	27
113	Simultaneous Determination of Ascorbic Acid and Dehydroascorbic Acid in Plant Materials by High Performance Liquid Chromatography <b>1996</b> , 7, 69-72		27
112	Gas exchange and antioxidative compounds in young beech trees under free-air ozone exposure and comparisons to adult trees. <i>Plant Biology</i> , <b>2007</b> , 9, 288-97	3.7	26
111	Elevated [CO <sub>2</sub> ] effects on crops: Advances in understanding acclimation, nitrogen dynamics and interactions with drought and other organisms. <i>Plant Biology</i> , <b>2020</b> , 22 Suppl 1, 38-51	3.7	26
110	The proportion of nitrate in leaf nitrogen, but not changes in root growth, are associated with decreased grain protein in wheat under elevated [CO <sub>2</sub> ]. <i>Journal of Plant Physiology</i> , <b>2017</b> , 216, 44-51	3.6	24
109	Can additional N fertiliser ameliorate the elevated CO <sub>2</sub> -induced depression in grain and tissue N concentrations of wheat on a high soil N background?. <i>Journal of Agronomy and Crop Science</i> , <b>2017</b> , 203, 574-583	3.9	24
108	Yield, growth and grain nitrogen response to elevated CO <sub>2</sub> of five field pea ( <i>Pisum sativum</i> L.) cultivars in a low rainfall environment. <i>Field Crops Research</i> , <b>2016</b> , 196, 1-9	5.5	24
107	Evidence for potential impacts of ozone on <i>Pinus cembra</i> L. at mountain sites in Europe: an overview. <i>Environmental Pollution</i> , <b>2006</b> , 139, 53-8	9.3	24
106	The effect of elevated CO <sub>2</sub> on photochemistry and antioxidative defence capacity in wheat depends on environmental growing conditions [A FACE study]. <i>Environmental and Experimental Botany</i> , <b>2013</b> , 88, 81-92	5.9	23
105	Effects of drought and canopy ozone exposure on antioxidants in fine roots of mature European beech ( <i>Fagus sylvatica</i> ). <i>Tree Physiology</i> , <b>2008</b> , 28, 713-9	4.2	23
104	The Role of Glutathione in Plant Reaction and Adaptation to Air Pollutants. <i>Plant Ecophysiology</i> , <b>2001</b> , 185-205		23
103	Intraspecific variation in leaf growth of wheat ( <i>Triticum aestivum</i> ) under Australian Grain Free Air CO <sub>2</sub> Enrichment (AGFACE): is it regulated through carbon and/or nitrogen supply?. <i>Functional Plant Biology</i> , <b>2015</b> , 42, 299-308	2.7	22
102	Diurnal and seasonal variations in photosynthetic and morphological traits of the tree ferns <i>Dicksonia antarctica</i> (Dicksoniaceae) and <i>Cyathea australis</i> (Cyatheaceae) in wet sclerophyll forests of Australia. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 70, 11-19	5.9	22
101	Trade-offs between water-use related traits, yield components and mineral nutrition of wheat under Free-Air CO <sub>2</sub> Enrichment (FACE). <i>European Journal of Agronomy</i> , <b>2016</b> , 76, 66-74	5	21
100	Water use and growth responses of dryland wheat grown under elevated [CO <sub>2</sub> ] are associated with root length in deeper, but not upper soil layer. <i>Field Crops Research</i> , <b>2018</b> , 224, 170-181	5.5	21
99	Elevated [CO <sub>2</sub> ] mitigates the effect of surface drought by stimulating root growth to access sub-soil water. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198928	3.7	20
98	Free Radical Scavengers and Photosynthetic Pigments in <i>Pinus Cembra</i> L. Needles as Affected by Ozone Exposure. <i>Biologia Plantarum</i> , <b>2001</b> , 44, 225-232	2.1	19

97	Variation in morphological and biochemical O <sub>3</sub> injury attributes of mature Jeffrey pine within canopies and between microsites. <i>Tree Physiology</i> , <b>2003</b> , 23, 923-9	4.2	18
96	Water availability moderates N fixation benefit from elevated [CO <sub>2</sub> ]: A 2-year free-air CO <sub>2</sub> enrichment study on lentil ( <i>Lens culinaris</i> MEDIK.) in a water limited agroecosystem. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2418-2434	8.4	17
95	Seasonal changes in carbohydrates, cyclitols, and water relations of 3 field grown Eucalyptus species from contrasting taxonomy on a common site. <i>Annals of Forest Science</i> , <b>2010</b> , 67, 104-104	3.1	17
94	Photostress, photoprotection, and water soluble antioxidants in the canopies of five Canarian laurel forest tree species during a diurnal course in the field. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2004</b> , 199, 110-119	1.9	17
93	Role of Sulfur for Plant Production in Agricultural and Natural Ecosystems. <i>Advances in Photosynthesis and Respiration</i> , <b>2008</b> , 417-435	1.7	17
92	Differences in ascorbate and glutathione levels as indicators of resistance and susceptibility in Eucalyptus trees infected with <i>Phytophthora cinnamomi</i> . <i>Tree Physiology</i> , <b>2012</b> , 32, 1148-60	4.2	16
91	Antioxidative defence and photoprotection in pine needles under field conditions. A multivariate approach to evaluate patterns of physiological responses at natural sites. <i>Physiologia Plantarum</i> , <b>1998</b> , 104, 760-764	4.6	16
90	Element contents and stress-physiological characterization of <i>Pinus canariensis</i> needles in Mediterranean type field stands in Tenerife. <i>Chemosphere</i> , <b>1998</b> , 36, 1019-1023	8.4	16
89	Accumulating pollutants in conifer needles on an Atlantic island - a case study with <i>Pinus canariensis</i> on Tenerife, Canary Islands. <i>Environmental Pollution</i> , <b>2005</b> , 136, 397-407	9.3	16
88	Is the bark of shining gum ( <i>Eucalyptus nitens</i> ) a sun or a shade leaf?. <i>Trees - Structure and Function</i> , <b>2005</b> , 19, 415-421	2.6	16
87	Antioxidants and protective pigments of <i>Pinus ponderosa</i> needles at gradients of natural stresses and ozone in the San Bernardino Mountains in California. <i>Free Radical Research</i> , <b>1999</b> , 31 Suppl, S113-20 <sup>4</sup>		16
86	The Assessment of Ozone Stress by Recording Chromosomal Aberrations in Root Tips of Spruce Trees [ <i>Picea abies</i> (L) Karst]. <i>Journal of Plant Physiology</i> , <b>1996</b> , 148, 160-165	3.6	16
85	Elevated CO <sub>2</sub> improves yield and N <sub>2</sub> fixation but not grain N concentration of faba bean ( <i>Vicia faba</i> L.) subjected to terminal drought. <i>Environmental and Experimental Botany</i> , <b>2019</b> , 165, 161-173	5.9	15
84	Interactive effects of high irradiance and moderate heat on photosynthesis, pigments, and tocopherol in the tree-fern <i>Dicksonia antarctica</i> . <i>Functional Plant Biology</i> , <b>2010</b> , 36, 1046-1056	2.7	15
83	Effect of a Heat Wave on Lentil Grown under Free-Air CO <sub>2</sub> Enrichment (FACE) in a Semi-Arid Environment. <i>Crop Science</i> , <b>2018</b> , 58, 803-812	2.4	15
82	Free air CO <sub>2</sub> enrichment (FACE) improves water use efficiency and moderates drought effect on N <sub>2</sub> fixation of <i>Pisum sativum</i> L.. <i>Plant and Soil</i> , <b>2019</b> , 436, 587-606	4.2	14
81	Carbon sink strength of nodules but not other organs modulates photosynthesis of faba bean ( <i>Vicia faba</i> ) grown under elevated [CO <sub>2</sub> ] and different water supply. <i>New Phytologist</i> , <b>2020</b> , 227, 132-145 <sup>9.8</sup>		14
80	Can elevated CO <sub>2</sub> buffer the effects of heat waves on wheat in a dryland cropping system?. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 155, 578-588	5.9	14

79	Foliage type specific susceptibility to ozone in <i>Picea abies</i> , <i>Pinus cembra</i> and <i>Larix decidua</i> at treeline: A synthesis. <i>Environmental and Experimental Botany</i> , <b>2013</b> , 90, 4-11	5.9	14
78	Modelling stomatal conductance of wheat: An assessment of response relationships under elevated CO <sub>2</sub> . <i>Agricultural and Forest Meteorology</i> , <b>2015</b> , 214-215, 117-123	5.8	14
77	Combined Effects of CO <sub>2</sub> and O <sub>3</sub> on Antioxidative and Photoprotective Defense Systems in Needles of Ponderosa Pine. <i>Biologia Plantarum</i> , <b>2004</b> , 48, 543-548	2.1	14
76	Uptake and distribution of <sup>35</sup> S-sulfate in needles and roots of spruce seedlings as affected by exposure to SO <sub>2</sub> and H <sub>2</sub> S. <i>Environmental and Experimental Botany</i> , <b>2003</b> , 50, 211-220	5.9	14
75	Effects of glutathione on thiol redox systems, chromosomal aberrations, and the ultrastructure of meristematic root cells of <i>Picea abies</i> (L.) Karst.. <i>Protoplasma</i> , <b>2000</b> , 212, 227-235	3.4	14
74	The significance of xanthophylls and tocopherols in photo-oxidative stress and photoprotection of three Canarian laurel forest tree species on a high radiation day. <i>Journal of Plant Physiology</i> , <b>2001</b> , 158, 1547-1554	3.6	14
73	Changes in Free-Radical Scavengers Describe the Susceptibility of <i>Pinus Ponderosa</i> to Ozone in Southern Californian Forests. <i>Water, Air, and Soil Pollution</i> , <b>1999</b> , 116, 249-254	2.6	14
72	The measurement of plant vitality in landscape trees. <i>Arboricultural Journal</i> , <b>2013</b> , 35, 18-27	0.6	13
71	Multivariate analysis of physiological parameters reveals a consistent O <sub>3</sub> response pattern in leaves of adult European beech ( <i>Fagus sylvatica</i> ). <i>New Phytologist</i> , <b>2012</b> , 196, 162-172	9.8	13
70	Effects of sudden exposure to high light levels on two tree fern species <i>Dicksonia antarctica</i> (Dicksoniaceae) and <i>Cyathea australis</i> (Cyatheaceae) acclimated to different light intensities. <i>Australian Journal of Botany</i> , <b>2009</b> , 57, 562	1.2	13
69	Estimation of drought-related limitations to mid-rotation aged plantation grown <i>Eucalyptus globulus</i> by phloem sap analysis. <i>Forest Ecology and Management</i> , <b>2008</b> , 256, 844-848	3.9	13
68	The Role of Thiols in Plant Adaptation to Environmental Stress <b>2003</b> , 221-244		13
67	Root uptake, transport, and metabolism of externally applied glutathione in <i>Phaseolus vulgaris</i> seedlings. <i>Journal of Plant Physiology</i> , <b>2004</b> , 161, 347-9	3.6	13
66	Edge type affects leaf-level water relations and estimated transpiration of <i>Eucalyptus arenacea</i> . <i>Tree Physiology</i> , <b>2012</b> , 32, 280-93	4.2	12
65	Differential effects of H <sub>2</sub> S on cytoplasmic and nuclear thiol concentrations in different tissues of Brassica roots. <i>Plant Physiology and Biochemistry</i> , <b>2002</b> , 40, 585-589	5.4	12
64	Prescreening in large populations as a tool for identifying elevated CO <sub>2</sub> -responsive genotypes in plants. <i>Functional Plant Biology</i> , <b>2018</b> , 46, 1-14	2.7	12
63	Simultaneous analyses of chromosomes in root meristems and of the biochemical status of needle tissues of three different clones of Norway spruce trees challenged with moderate ozone levels. <i>Forest Pathology</i> , <b>1999</b> , 29, 281-294	1.2	11
62	Physiological, structural, and nutritional parameters of Norway spruce needles from declining forest stands in Austria. <i>Canadian Journal of Forest Research</i> , <b>1996</b> , 26, 1769-1780	1.9	11

61	Grain mineral quality of dryland legumes as affected by elevated CO <sub>2</sub> and drought: a FACE study on lentil ( <i>Lens culinaris</i> ) and faba bean ( <i>Vicia faba</i> ). <i>Crop and Pasture Science</i> , <b>2019</b> , 70, 244	2.2	11
60	Current Concepts for Treelife Limitation at the Upper Timberline. <i>Plant Ecophysiology</i> , <b>2007</b> , 1-18		11
59	Nitrogen nutrition and aspects of root growth and function of two wheat cultivars under elevated [CO <sub>2</sub> ]. <i>Environmental and Experimental Botany</i> , <b>2017</b> , 140, 1-7	5.9	10
58	Grain yield responsiveness to water supply in near-isogenic reduced-tillering wheat lines [An engineered crop trait near its upper limit. <i>European Journal of Agronomy</i> , <b>2019</b> , 102, 33-38	5	10
57	Relations of sugar composition and delta 13C in phloem sap to growth and physiological performance of <i>Eucalyptus globulus</i> (Labill). <i>Plant, Cell and Environment</i> , <b>2010</b> , 33, 1361-8	8.4	10
56	Shade does not ameliorate drought effects on the tree fern species <i>Dicksonia antarctica</i> and <i>Cyathea australis</i> . <i>Trees - Structure and Function</i> , <b>2010</b> , 24, 351-362	2.6	10
55	Lack of genetic variation in tree ring delta13C suggests a uniform, stomatally-driven response to drought stress across <i>Pinus radiata</i> genotypes. <i>Tree Physiology</i> , <b>2009</b> , 29, 191-8	4.2	10
54	Metabolism of reduced and inorganic sulphur in pea cotyledons and distribution into developing seedlings. <i>New Phytologist</i> , <b>2002</b> , 153, 73-80	9.8	10
53	Treatment of Young Spruce Shoots with SO <sub>2</sub> and H <sub>2</sub> S: Effects on Fine Root Chromosomes in Relation to Changes in the Thiol Content and Redox State. <i>Water, Air, and Soil Pollution</i> , <b>1999</b> , 116, 423-428	2.6	10
52	Lower grain nitrogen content of wheat at elevated CO <sub>2</sub> can be improved through post-anthesis NH <sub>4</sub> <sup>+</sup> supplement. <i>Journal of Cereal Science</i> , <b>2017</b> , 74, 79-85	3.8	8
51	Yield of canola ( <i>Brassica napus</i> L.) benefits more from elevated CO <sub>2</sub> when access to deeper soil water is improved. <i>Environmental and Experimental Botany</i> , <b>2018</b> , 155, 518-528	5.9	8
50	Seasonal variations of gas exchange, photosynthetic pigments, and antioxidants in Turkey oak ( <i>Quercus cerris</i> L.) and Hungarian oak ( <i>Quercus frainetto</i> Ten.) of different age. <i>Trees - Structure and Function</i> , <b>2011</b> , 25, 1043-1052	2.6	8
49	Multivariate patterns of antioxidative and photoprotective defence compounds in spruce needles at two central European forest sites of different elevation. <i>Environmental Monitoring and Assessment</i> , <b>2007</b> , 128, 75-82	3.1	8
48	The role of sulphur compounds for breeding success of <i>Ips typographus</i> L. (Col., Scolytidae) on Norway Spruce ( <i>Picea abies</i> [L.] Karst.). <i>Journal of Applied Entomology</i> , <b>2001</b> , 125, 425-431	1.7	8
47	The significance of carotenoids and tocopherols in photoprotection of seven epiphytic fern species of a Mexican cloud forest. <i>Functional Plant Biology</i> , <b>2001</b> , 28, 775	2.7	8
46	Characteristics of free air carbon dioxide enrichment of a northern temperate mature forest. <i>Global Change Biology</i> , <b>2020</b> , 26, 1023-1037	11.4	8
45	Seedlings of two <i>Acacia</i> species from contrasting habitats show different photoprotective and antioxidative responses to drought and heatwaves. <i>Annals of Forest Science</i> , <b>2015</b> , 72, 403-414	3.1	7
44	Responses to heatwaves of gas exchange, chlorophyll fluorescence and antioxidants ascorbic acid and glutathione in congeneric pairs of <i>Acacia</i> and <i>Eucalyptus</i> species from relatively cooler and warmer climates. <i>Trees - Structure and Function</i> , <b>2015</b> , 29, 1929-1941	2.6	7



43	Chlorophyll fluorescence of the trunk rather than leaves indicates visual vitality in Eucalyptus saligna. <i>Trees - Structure and Function</i> , <b>2012</b> , 26, 1565-1576	2.6	7
42	Gas Exchange of Irrigated and Non-Irrigated Pinus canariensis Seedlings Growing Outdoors in La Laguna, Canary Islands, Spain. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , <b>1999</b> , 54, 693-697	1.7	7
41	Effects of an oxidizing agent (hydrogen peroxide) on the glutathione system in epidermal cells of Allium cepa L. investigated by histochemical staining. <i>Free Radical Research</i> , <b>1999</b> , 31 Suppl, S121-7	4	7
40	Crop rotation options for dryland agriculture: An assessment of grain yield response in cool-season grain legumes and canola to variation in rainfall totals. <i>Agricultural and Forest Meteorology</i> , <b>2019</b> , 275, 277-282	5.8	6
39	Stress-physiological investigations and chromosomal analyses on cloned Norway spruce trees exposed to various levels of ozone in open-top chambers. <i>Chemosphere</i> , <b>1998</b> , 36, 709-714	8.4	6
38	Sulphate uptake and xylem loading of young pea (Pisum sativum L.) seedlings. <i>Plant and Soil</i> , <b>2002</b> , 242, 227-233	4.2	6
37	Effect of heat wave on N fixation and N remobilisation of lentil (Lens culinaris MEDIK) grown under free air CO enrichment in a mediterranean-type environment. <i>Plant Biology</i> , <b>2020</b> , 22 Suppl 1, 123-132	3.7	6
36	Crops for a future climate. <i>Functional Plant Biology</i> , <b>2013</b> , 40, iii-vi	2.7	5
35	Effects of ozone and mild drought stress on gas exchange, antioxidants and chloroplast pigments in current-year needles of young Norway spruce [Picea abies (L.) Karst.]. <i>Trees - Structure and Function</i> , <b>1998</b> , 12, 482-489	2.6	5
34	Evidence that branch cuvettes are reasonable surrogates for estimating O3 effects in entire tree crowns. <i>Plant Biology</i> , <b>2007</b> , 9, 309-19	3.7	5
33	Foliar Antioxidants and Protective Pigments in Larix decidua Mill. from Contrasting Elevations in the Northern and Southern Tyrolean Limestone Alps. <i>European Journal of Forest Research</i> , <b>2003</b> , 122, 368-375		5
32	Early vigour in wheat: Could it lead to more severe terminal drought stress under elevated atmospheric [CO ] and semi-arid conditions?. <i>Global Change Biology</i> , <b>2020</b> , 26, 4079-4093	11.4	5
31	How sensitive are forest trees to ozone? - New research on an old issue <b>2005</b> , 21-28		5
30	The water use dynamics of canola cultivars grown under elevated CO are linked to their leaf area development. <i>Journal of Plant Physiology</i> , <b>2018</b> , 229, 164-169	3.6	4
29	Effects of sulphurous gases in two CO2 springs on total sulphur and thiols in acorns and oak seedlings. <i>Atmospheric Environment</i> , <b>2004</b> , 38, 3775-3780	5.3	4
28	Quantifying Wood Decay in Sydney Bluegum (Eucalyptus saligna) Trees. <i>Arboriculture and Urban Forestry</i> , <b>2010</b> , 36, 243-252	1.5	4
27	Nutrient Use and Nutrient Use Efficiency of Crops in a High CO2 Atmosphere. <i>Plant Ecophysiology</i> , <b>2014</b> , 229-252		4
26	A Physiological Comparison between Environmental Effects on Canary Pine in Tenerife and Norway Spruce in Austria. <i>Forestry Sciences</i> , <b>1997</b> , 103-110		4

25	Trees in a Changing Environment. <i>Plant Ecophysiology</i> , <b>2014</b> ,		3
24	Bark and leaf chlorophyll fluorescence are linked to wood structural changes in <i>Eucalyptus saligna</i> . <i>AoB PLANTS</i> , <b>2014</b> , 6,	2.9	3
23	Photo-Oxidative Stress at the Timberline. <i>Plant Ecophysiology</i> , <b>2007</b> , 181-195		3
22	Barley yellow dwarf virus infection and elevated CO alter the antioxidants ascorbate and glutathione in wheat. <i>Journal of Plant Physiology</i> , <b>2016</b> , 199, 96-99	3.6	3
21	Sulfur in forest ecosystems. <i>Plant Ecophysiology</i> , <b>2007</b> , 59-75		3
20	Water use dynamics of dryland canola ( <i>Brassica napus</i> L.) grown on contrasting soils under elevated CO <sub>2</sub> . <i>Plant and Soil</i> , <b>2019</b> , 438, 205-222	4.2	2
19	A reduced-tillering trait shows small but important yield gains in dryland wheat production. <i>Global Change Biology</i> , <b>2020</b> , 26, 4056-4067	11.4	2
18	Increasing leaf glutathione through stem feeding does not acclimate <i>Eucalyptus camaldulensis</i> seedlings towards high-light stress. <i>Acta Physiologiae Plantarum</i> , <b>2011</b> , 33, 221-225	2.6	2
17	Does Elevated [CO] Only Increase Root Growth in the Topsoil? A FACE Study with Lentil in a Semi-Arid Environment. <i>Plants</i> , <b>2021</b> , 10,	4.5	2
16	The concentration of ascorbic acid and glutathione in 13 provenances of <i>Acacia melanoxylon</i> . <i>Tree Physiology</i> , <b>2016</b> , 36, 524-32	4.2	2
15	Potential impact of elevated atmospheric carbon dioxide and climate change on Victorian wheat marketing grades and value. <i>Crop and Pasture Science</i> , <b>2019</b> , 70, 926	2.2	2
14	Host Symptom Expression and Antioxidant Defence Systems of Wheat Infected with Barley Yellow Dwarf Virus and Grown Under Elevated CO <sub>2</sub> . <i>Procedia Environmental Sciences</i> , <b>2015</b> , 29, 177-178		1
13	Physiological responses of trees to air pollutants at high elevation sites <b>2005</b> , 37-44		1
12	Sulfur Nutrition and Food Security <b>2012</b> , 185-202		1
11	Elevated Atmospheric CO <sub>2</sub> Affects Grain Sulfur Concentration and Grain Nitrogen/Sulfur Ratio of Wheat ( <i>Triticum aestivum</i> L.) <b>2012</b> , 231-236		1
10	Structural Changes and Physiological Stress Responses of Spruce Trees to SO <sub>2</sub> , O <sub>3</sub> and Elevated Levels of CO <sub>2</sub> . <i>Forestry Sciences</i> , <b>1997</b> , 93-102		1
9	Changes in Free-Radical Scavengers Describe the Susceptibility of <i>Pinus Ponderosa</i> to Ozone in Southern Californian Forests <b>1999</b> , 249-254		1
8	Leaf traits of <i>Eucalyptus arenacea</i> (Myrtaceae) as indicators of edge effects in temperate woodlands of south-eastern Australia. <i>Australian Journal of Botany</i> , <b>2013</b> , 61, 365	1.2	1

7	The Future of Trees in a Changing Climate: Synopsis. <i>Plant Ecophysiology</i> , <b>2014</b> , 265-279		1
6	Machine learning produces higher prediction accuracy than the Jarvis-type model of climatic control on stomatal conductance in a dryland wheat agro-ecosystem. <i>Agricultural and Forest Meteorology</i> , <b>2021</b> , 304-305, 108423	5.8	1
5	<b>2018</b> ,		1
4	Elevated CO <sub>2</sub> in semi-arid cropping systems: A synthesis of research from the Australian Grains Free Air CO <sub>2</sub> Enrichment (AGFACE) research program. <i>Advances in Agronomy</i> , <b>2022</b> , 1-73	7.7	0
3	Can Intra-specific Differences in Root Traits of Wheat Increase Nitrogen Use Efficiency (NUE) under Elevated CO <sub>2</sub> ?. <i>Procedia Environmental Sciences</i> , <b>2015</b> , 29, 109-110		
2	Treatment of Young Spruce Shoots with SO <sub>2</sub> and H <sub>2</sub> S: Effects on Fine Root Chromosomes in Relation to Changes in the Thiol Content and Redox State <b>1999</b> , 423-428		
1	Case Studies on Food Production, Policy and Trade <b>2013</b> , 353-364		