Charles R Warren

List of Publications by Year
in descending order

107	6,836	57681 46	73587 79
papers	citations	h-index	g-index

109	109	109	6958
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	D2O labelling reveals synthesis of small, water-soluble metabolites in soil. Soil Biology and Biochemistry, 2022, 165, 108543.	4.2	8
2	Soil-root interaction in the rhizosheath regulates the water uptake of wheat. Rhizosphere, 2022, 21, 100462.	1.4	12
3	High water availability in drought tolerant crops is driven by root engineering of the soil micro-habitat. Geoderma, 2021, 383, 114738.	2.3	15
4	Altitudinal transects reveal large differences in intact lipid composition among soils. Soil Research, 2021, 59, 644-659.	0.6	6
5	What are the products of enzymatic cleavage of organic N?. Soil Biology and Biochemistry, 2021, 154, 108152.	4.2	15
6	The contribution of PIP2-type aquaporins to photosynthetic response to increased vapour pressure deficit. Journal of Experimental Botany, 2021, 72, 5066-5078.	2.4	14
7	Soil microbial populations substitute phospholipids with betaine lipids in response to low P availability. Soil Biology and Biochemistry, 2020, 140, 107655.	4.2	26
8	Pools and fluxes of osmolytes in moist soil and dry soil that has been re-wet. Soil Biology and Biochemistry, 2020, 150, 108012.	4.2	21
9	Lightâ€limited photosynthesis under energyâ€saving film decreases eggplant yield. Food and Energy Security, 2020, 9, e245.	2.0	31
10	Isotope pool dilution reveals rapid turnover of small quaternary ammonium compounds. Soil Biology and Biochemistry, 2019, 131, 90-99.	4.2	18
11	Does silica solid-phase extraction of soil lipids isolate a pure phospholipid fraction?. Soil Biology and Biochemistry, 2019, 128, 175-178.	4.2	12
12	A liquid chromatographyâ€“mass spectrometry method for analysis of intact fattyâ€acidâ€based lipids extracted from soil. European Journal of Soil Science, 2018, 69, 791-803.	1.8	24
13	Development of online microdialysis-mass spectrometry for continuous minimally invasive measurement of soil solution dynamics. Soil Biology and Biochemistry, 2018, 123, 266-275.	4.2	15
14	Root uptake of inorganic and organic N chemical forms in two coexisting Mediterranean forest trees. Plant and Soil, 2017, 415, 387-392.	1.8	23
15	Changes in small organic N during early stages of soil development. Soil Biology and Biochemistry, 2017, 110, 44-55.	4.2	13
16	Potential protease activity and organic nitrogen concentration are rapid tests and accurate indicators of N-availability in Tasmanian Eucalyptus nitens plantations. Soil Biology and Biochemistry, 2017, 115, 152-160.	4.2	8
17	Variation in small organic N compounds and amino acid enantiomers along an altitudinal gradient. Soil Biology and Biochemistry, 2017, 115, 197-212.	4.2	11
18	Do microbial osmolytes or extracellular depolymerisation products accumulate as soil dries?. Soil Biology and Biochemistry, 2016, 98, 54-63.	4.2	48

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19	Simultaneous efflux and uptake of metabolites by roots of wheat. Plant and Soil, 2016, 406, 359-374.	1.8	17
20	Specific influence of white clover on the rhizosphere microbial community in response to polycyclic aromatic hydrocarbon (PAH) contamination. Plant and Soil, 2016, 401, 365-379.	1.8	18
21	Wheat roots efflux a diverse array of organic N compounds and are highly proficient at their recapture. Plant and Soil, 2015, 397, 147-162.	1.8	51
22	Lysozyme depolymerization of photo-activated chitosan adhesive films. Carbohydrate Polymers, 2015, 121, 56-63.	5.1	30
23	Comparison of methods for extraction of organic N monomers from soil microbial biomass. Soil Biology and Biochemistry, 2015, 81, 67-76.	4.2	24
24	Response of osmolytes in soil to drying and rewetting. Soil Biology and Biochemistry, 2014, 70, 22-32.	4.2	149
25	Foliar absorption and root translocation of nitrogen from different chemical forms in seedlings of two Mediterranean trees. Environmental and Experimental Botany, 2014, 104, 34-43.	2.0	46
26	The role of mesophyll conductance in the economics of nitrogen and water use in photosynthesis. Photosynthesis Research, 2014, 119, 77-88.	1.6	42
27	Organic N molecules in the soil solution: what is known, what is unknown and the path forwards. Plant and Soil, 2014, 375, 1-19.	1.8	103
28	Implications of the mesophyll conductance to <scp><scp>CO</scp>₂</scp> for photosynthesis and waterâ€use efficiency during longâ€term water stress and recovery in two contrasting <scp>E</scp>ucalyptus species. Plant, Cell and Environment, 2014, 37, 2470-2490.	2.8	95
29	Development of liquid chromatography mass spectrometry method for analysis of organic N monomers in soil. Soil Biology and Biochemistry, 2014, 78, 233-242.	4.2	12
30	Response of organic N monomers in a sub-alpine soil to a dryâ€“wet cycle. Soil Biology and Biochemistry, 2014, 77, 233-242.	4.2	22
31	Use of chemical ionization for GCâ€“MS metabolite profiling. Metabolomics, 2013, 9, 110-120.	1.4	18
32	Development of a capillary electrophoresisâ€“mass spectrometry method for small peptides in the soil solution. Soil Biology and Biochemistry, 2013, 63, 80-84.	4.2	17
33	Quaternary ammonium compounds can be abundant in some soils and are taken up as intact molecules by plants. New Phytologist, 2013, 198, 476-485.	3.5	89
34	Effects of drought on mesophyll conductance and photosynthetic limitations at different tree canopy layers. Plant, Cell and Environment, 2013, 36, 1961-1980.	2.8	94
35	High diversity of small organic N observed in soil water. Soil Biology and Biochemistry, 2013, 57, 444-450.	4.2	70
36	Is mesophyll conductance to CO2 in leaves of three Eucalyptus species sensitive to short-term changes of irradiance under ambient as well as low O2?. Functional Plant Biology, 2012, 39, 435.	1.1	46

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37	Mesophyll diffusion conductance to CO2: An unappreciated central player in photosynthesis. Plant Science, 2012, 193-194, 70-84.	1.7	563
38	Effect of thinning, pruning and nitrogen fertiliser application on transpiration, photosynthesis and water-use efficiency in a young Eucalyptus nitens plantation. Forest Ecology and Management, 2012, 266, 286-300.	1.4	107
39	Metabolomics demonstrates divergent responses of two Eucalyptus species to water stress. Metabolomics, 2012, 8, 186-200.	1.4	113
40	Photosynthetic capacity of Eucalyptus globulus is higher when grown in mixture with Acacia mearnsii. Trees - Structure and Function, 2012, 26, 1203-1213.	0.9	38
41	Postâ€uptake metabolism affects quantification of amino acid uptake. New Phytologist, 2012, 193, 522-531.	3.5	44
42	Ecosystem Respiration in a Seasonally Snow-Covered Subalpine Grassland. Arctic, Antarctic, and Alpine Research, 2011, 43, 137-146.	0.4	13
43	How does P affect photosynthesis and metabolite profiles of Eucalyptus globulus?. Tree Physiology, 2011, 31, 727-739.	1.4	126
44	Responses to water stress of gas exchange and metabolites in Eucalyptus and Acacia spp.. Plant, Cell and Environment, 2011, 34, 1609-1629.	2.8	105
45	Light acclimation at the end of the growing season in two broadleaved oak species. Photosynthetica, 2011, 49, 581-592.	0.9	19
46	Determination of the site of CO2 sensing in poplar: is the area-based N content and anatomy of new leaves determined by their immediate CO2 environment or by the CO2 environment of mature leaves?. Journal of Experimental Botany, 2011, 62, 2787-2796.	2.4	17
47	Mesophyll conductance to CO2, assessed from online TDL-AS records of 13CO2 discrimination, displays small but significant short-term responses to CO2 and irradiance in Eucalyptus seedlings. Journal of Experimental Botany, 2011, 62, 5335-5346.	2.4	65
48	Competition for nitrogen by three sympatric species of Eucalyptus. Annals of Forest Science, 2010, 67, 406-406.	0.8	5
49	Temporal variation in pools of amino acids, inorganic and microbial N in a temperate grassland soil. Soil Biology and Biochemistry, 2010, 42, 353-359.	4.2	45
50	Variability in mesophyll conductance between barley genotypes, and effects on transpiration efficiency and carbon isotope discrimination. Plant, Cell and Environment, 2010, 33, 1176-85.	2.8	125
51	Phloem sap and leaf Î´13C, carbohydrates, and amino acid concentrations in Eucalyptus globulus change systematically according to flooding and water deficit treatment. Journal of Experimental Botany, 2010, 61, 1785-1793.	2.4	75
52	Importance of mesophyll diffusion conductance in estimation of plant photosynthesis in the field. Journal of Experimental Botany, 2009, 60, 2271-2282.	2.4	137
53	Uptake of inorganic and amino acid nitrogen from soil by Eucalyptus regnans and Eucalyptus pauciflora seedlings. Tree Physiology, 2009, 29, 401-409.	1.4	50
54	Why does temperature affect relative uptake rates of nitrate, ammonium and glycine: A test with Eucalyptus pauciflora. Soil Biology and Biochemistry, 2009, 41, 778-784.	4.2	47

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55	Role of corticular photosynthesis following defoliation in Eucalyptus globulus. Plant, Cell and Environment, 2009, 32, 1004-1014.	2.8	38
56	Does nitrogen concentration affect relative uptake rates of nitrate, ammonium, and glycine?. Journal of Plant Nutrition and Soil Science, 2009, 172, 224-229.	1.1	32
57	Role of mesophyll diffusion conductance in constraining potential photosynthetic productivity in the field. Journal of Experimental Botany, 2009, 60, 2249-2270.	2.4	271
58	Rapid and sensitive quantification of amino acids in soil extracts by capillary electrophoresis with laser-induced fluorescence. Soil Biology and Biochemistry, 2008, 40, 916-923.	4.2	30
59	Photoprotective carotenoids and antioxidants are more affected by canopy position than by nitrogen supply in 21-year-old Pinus radiata. Functional Plant Biology, 2008, 35, 470.	1.1	11
60	Soil water deficits decrease the internal conductance to CO2 transfer but atmospheric water deficits do not. Journal of Experimental Botany, 2008, 59, 327-334.	2.4	105
61	Rapid Measurement of Chlorophylls with a Microplate Reader. Journal of Plant Nutrition, 2008, 31, 1321-1332.	0.9	155
62	Nitrogen allocation and the fate of absorbed light in 21-year-old Pinus radiata. Tree Physiology, 2008, 28, 375-384.	1.4	8
63	Does growth temperature affect the temperature responses of photosynthesis and internal conductance to CO2? A test with Eucalyptus regnans. Tree Physiology, 2008, 28, 11-19.	1.4	92
64	Stand aside stomata, another actor deserves centre stage: the forgotten role of the internal conductance to CO2 transfer. Journal of Experimental Botany, 2007, 59, 1475-1487.	2.4	240
65	Within-canopy nitrogen and photosynthetic gradients are unaffected by soil fertility in field-grown Eucalyptus globulus. Tree Physiology, 2007, 27, 1607-1617.	1.4	32
66	Increased photosynthesis following partial defoliation of field-grown Eucalyptus globulus seedlings is not caused by increased leaf nitrogen. Tree Physiology, 2007, 27, 1481-1492.	1.4	85
67	Uptake of nitrate, ammonium and glycine by plants of Tasmanian wet eucalypt forests. Tree Physiology, 2007, 27, 413-419.	1.4	63
68	Novel mannoseâ€sequestration technique reveals variation in subcellular orthophosphate pools do not explain the effects of phosphorus nutrition on photosynthesis in Eucalyptus globulus seedlings. New Phytologist, 2007, 176, 849-861.	3.5	27
69	Internal conductance to CO2 transfer of adult Fagus sylvatica: Variation between sun and shade leaves and due to free-air ozone fumigation. Environmental and Experimental Botany, 2007, 59, 130-138.	2.0	81
70	O3Flux-Related Responsiveness of Photosynthesis, Respiration, and Stomatal Conductance of Adult Fagus sylvatica to Experimentally Enhanced Free-Air O3Exposure. Plant Biology, 2007, 9, 197-206.	1.8	35
71	Changes in gas exchange versus leaf solutes as a means to cope with summer drought in Eucalyptus marginata. Oecologia, 2007, 154, 1-10.	0.9	34
72	Corrigendum to: Estimating the internal conductance to CO2 movement. Functional Plant Biology, 2007, 34, 82.	1.1	1

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73	Temperature response of photosynthesis and internal conductance to CO2: results from two independent approaches. Journal of Experimental Botany, 2006, 57, 3057-3067.	2.4	191
74	Potential organic and inorganic N uptake by six Eucalyptus species. Functional Plant Biology, 2006, 33, 653.	1.1	63
75	Internal conductance does not scale with photosynthetic capacity: implications for carbon isotope discrimination and the economics of water and nitrogen use in photosynthesis. Plant, Cell and Environment, 2006, 29, 192-201.	2.8	204
76	Ecotype adaptation and acclimation of leaf traits to rainfall in 29 species of 16-year-old Eucalyptus at two common gardens. Functional Ecology, 2006, 20, 929-940.	1.7	51
77	Why does photosynthesis decrease with needle age in Pinus pinaster?. Trees - Structure and Function, 2006, 20, 157-164.	0.9	86
78	Estimating the internal conductance to CO2 movement. Functional Plant Biology, 2006, 33, 431.	1.1	105
79	Dynamic light use and protection from excess light in upper canopy and coppice leaves of Nothofagus cunninghamii in an old growth, cool temperate rainforest in Victoria, Australia. New Phytologist, 2005, 165, 143-156.	3.5	46
80	Is the bark of shining gum (Eucalyptus nitens) a sun or a shade leaf?. Trees - Structure and Function, 2005, 19, 415-421.	0.9	22
81	What determines interspecific variation in relative growth rate of Eucalyptus seedlings?. Oecologia, 2005, 144, 373-381.	0.9	21
82	Differential effects of N, P and K on photosynthesis and partitioning of N in Pinus pinaster needles. Annals of Forest Science, 2005, 62, 1-8.	0.8	48
83	Does rainfall explain variation in leaf morphology and physiology among populations of red ironbark (Eucalyptus sideroxylon subsp. tricarpa) grown in a common garden?. Tree Physiology, 2005, 25, 1369-1378.	1.4	56
84	Water stress decreases the transfer conductance of Douglas-fir (Pseudotsuga menziesii) seedlings. Tree Physiology, 2004, 24, 971-979.	1.4	77
85	Photosynthetic responses and N allocation in Douglas-fir needles following a brief pulse of nutrients. Tree Physiology, 2004, 24, 601-608.	1.4	14
86	Capillary electrophoresis of the major anions and cations in leaf extracts of woody species. Phytochemical Analysis, 2004, 15, 407-413.	1.2	12
87	The photosynthetic limitation posed by internal conductance to CO2 movement is increased by nutrient supply. Journal of Experimental Botany, 2004, 55, 2313-2321.	2.4	103
88	Evergreen trees do not maximize instantaneous photosynthesis. Trends in Plant Science, 2004, 9, 270-274.	4.3	133
89	What determines rates of photosynthesis per unit nitrogen in Eucalyptus seedlings?. Functional Plant Biology, 2004, 31, 1169.	1.1	30
90	Photosynthesis-Rubisco relationships in foliage of Pinus sylvestris in response to nitrogen supply and the proposed role of Rubisco and amino acids as nitrogen stores. Trees - Structure and Function, 2003, 17, 359-366.	0.9	156

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91	Transfer conductance in second growth Douglas-fir (Pseudotsuga menziesii (Mirb.)Franco) canopies. Plant, Cell and Environment, 2003, 26, 1215-1227.	2.8	132
92	Responses of gas exchange to reversible changes in whole-plant transpiration rate in two conifer species. Tree Physiology, 2003, 23, 793-803.	1.4	17
93	Response of Douglas-fir seedlings to a brief pulse of 15N-labeled nutrients. Tree Physiology, 2003, 23, 1193-1200.	1.4	11
94	Possible causes of slow growth of nitrate-suppliedPinus pinaster. Canadian Journal of Forest Research, 2002, 32, 569-580.	0.8	26
95	Phosphorus affects growth and partitioning of nitrogen to Rubisco in Pinus pinaster. Tree Physiology, 2002, 22, 11-19.	1.4	93
96	Water availability and carbon isotope discrimination in conifers. Oecologia, 2001, 127, 476-486.	0.9	313
97	Distribution of N, Rubisco and photosynthesis in Pinus pinaster and acclimation to light. Plant, Cell and Environment, 2001, 24, 597-609.	2.8	147
98	Effect of N source on concentration of Rubisco inEucalyptus diversicolor, as measured by capillary electrophoresis. Physiologia Plantarum, 2000, 110, 52-58.	2.6	17
99	Trade-offs between the persistence of foliage and productivity in two Pinus species. Oecologia, 2000, 124, 487-494.	0.9	54
100	Separation of amino acids in plant tissue extracts by capillary zone electrophoresis with indirect UV detection using aromatic carboxylates as background electrolytes. Chromatographia, 2000, 51, 180-186.	0.7	19
101	Is photosynthesis related to concentrations of nitrogen and Rubisco in leaves of Australian native plants?. Functional Plant Biology, 2000, 27, 407.	1.1	60
102	Water availability and branch length determine Â13C in foliage of Pinus pinaster. Tree Physiology, 2000, 20, 637-643.	1.4	44
103	Separation of Rubisco in Extracts of Plant Leaves by Capillary Electrophoresis with Sieving Polymers. Analytical Letters, 2000, 33, 579-587.	1.0	7
104	Capillary electrophoresis for the determination of major amino acids and sugars in foliage: application to the nitrogen nutrition of sclerophyllous species. Journal of Experimental Botany, 2000, 51, 1147-1157.	2.4	53
105	A rapid and simple method for processing wood to crude cellulose for analysis of stable carbon isotopes in tree rings. Tree Physiology, 1999, 19, 831-835.	1.4	77
106	Cold hardening reduces photoinhibition of Eucalypts nitens and E. pauciflora at frost temperatures. Oecologia, 1998, 113, 350-359.	0.9	22
107	Photochemistry, energy dissipation and cold-hardening in Eucalyptus nitens and E. pauciflora. Functional Plant Biology, 1998, 25, 581.	1.1	14