Mark A. Adams

List of Publications by Year
in descending order

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236	13,543	22099	29081
papers	citations	59 h-index	104 g-index

245	245	245	14392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. Agriculture, Ecosystems and Environment, 2013, 164, 80-99.	2.5	1,143
2	Nutrient cycling in forests. New Phytologist, 1993, 124, 561-582.	3.5	568
3	The redistribution of soil water by tree root systems. Oecologia, 1998, 115, 306-311.	0.9	480
4	Sensitivity of plants to changing atmospheric <scp>CO</scp>₂ concentration: from the geological past to the next century. New Phytologist, 2013, 197, 1077-1094.	3.5	336
5	Water availability and carbon isotope discrimination in conifers. Oecologia, 2001, 127, 476-486.	0.9	313
6	Wildfire management in Mediterranean-type regions: paradigm change needed. Environmental Research Letters, 2020, 15, 011001.	2.2	267
7	Mega-fires, tipping points and ecosystem services: Managing forests and woodlands in an uncertain future. Forest Ecology and Management, 2013, 294, 250-261.	1.4	235
8	Estimation of leaf area index in eucalypt forest using digital photography. Agricultural and Forest Meteorology, 2007, 143, 176-188.	1.9	219
9	Soil Security: Solving the Global Soil Crisis. Global Policy, 2013, 4, 434-441.	1.0	219
10	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
11	Legumes are different: Leaf nitrogen, photosynthesis, and water use efficiency. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4098-4103.	3.3	195
12	Nutrient cycling and nitrogen mineralization in eucalypt forests of south-eastern Australia. Plant and Soil, 1986, 92, 341-362.	1.8	191
13	Tree roots: conduits for deep recharge of soil water. Oecologia, 2001, 126, 158-165.	0.9	186
14	Carbon and oxygen isotope composition of organic compounds in the phloem sap provides a short-term measure for stomatal conductance of European beech (Fagus sylvatica L.). Plant, Cell and Environment, 2003, 26, 1157-1168.	2.8	163
15	Leaf day respiration: low <scp>CO</scp>₂ flux but high significance for metabolism and carbon balance. New Phytologist, 2017, 216, 986-1001.	3.5	159
16	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
17	Distribution of N, Rubisco and photosynthesis in Pinus pinaster and acclimation to light. Plant, Cell and Environment, 2001, 24, 597-609.	2.8	147
18	Availability of organic and inorganic forms of phosphorus to lupins (Lupinus spp.). Plant and Soil, 1992, 145, 107-113.	1.8	146

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19	Climate determines vascular traits in the ecologically diverse genus Eucalyptus. Ecology Letters, 2016, 19, 240-248.	3.0	137
20	Evergreen trees do not maximize instantaneous photosynthesis. Trends in Plant Science, 2004, 9, 270-274.	4.3	133
21	Short-term variation in the isotopic composition of organic matter allocated from the leaves to the stem of Pinus sylvestris : effects of photosynthetic and postphotosynthetic carbon isotope fractionation. Global Change Biology, 2006, 12, 1922-1939.	4.2	133
22	Testing the generality of aboveâ€ground biomass allometry across plant functional types at the continent scale. Global Change Biology, 2016, 22, 2106-2124.	4.2	133
23	Soil carbon and nitrogen stocks in forests along an altitudinal gradient in the eastern Himalayas and a metaâ€analysis of global data. Global Change Biology, 2016, 22, 2255-2268.	4.2	129
24	PTR-MS analysis of reference and plant-emitted volatile organic compounds. International Journal of Mass Spectrometry, 2007, 262, 203-210.	0.7	123
25	In situ studies of nitrogen mineralization and uptake in forest soils; some comments on methodology. Soil Biology and Biochemistry, 1989, 21, 423-429.	4.2	118
26	Seasonal Water Acquisition and Redistribution in the Australian Woody Phreatophyte, Banksia prionotes. Annals of Botany, 2000, 85, 215-224.	1.4	113
27	Plant species affect acid phosphatase, ergosterol and microbial P in a Jarrah (Eucalyptus marginata) Tj ETQq1 1 0.784314 rgBT /Overlo	4.2	112
28	Simultaneous Determination by Capillary Gas Chromatography of Organic Acids, Sugars, and Sugar Alcohols in Plant Tissue Extracts as Their Trimethylsilyl Derivatives. Analytical Biochemistry, 1999, 266, 77-84.	1.1	110
29	Contrasting Physiological Responses of Six Eucalyptus Species to Water Deficit. Annals of Botany, 2007, 100, 1507-1515.	1.4	110
30	Radiation modifies the effect of water availability on the carbon isotope composition of beech (Fagus) Tj ETQq0 0 0 rgBT /Overlock 10 T	3.5	109
31	Whole-tree chambers for elevated atmospheric CO2 experimentation and tree scale flux measurements in south-eastern Australia: The Hawkesbury Forest Experiment. Agricultural and Forest Meteorology, 2010, 150, 941-951.	1.9	108
32	Stable Isotopes at Natural Abundance in Terrestrial Plant Ecology and Ecophysiology: An Update. Plant Biology, 2001, 3, 299-310.	1.8	104
33	Mega-fires, inquiries and politics in the eucalypt forests of Victoria, south-eastern Australia. Forest Ecology and Management, 2013, 294, 45-53.	1.4	97
34	Cyclitols and carbohydrates in leaves and roots of 13 Eucalyptus species suggest contrasting physiological responses to water deficit. Plant, Cell and Environment, 2006, 29, 2017-2029.	2.8	96
35	A validation, comparison and error analysis of two heat-pulse methods for measuring sap flow in Eucalyptus marginata saplings. Functional Plant Biology, 2004, 31, 645.	1.1	85
36	Emissions of isoprene, monoterpene and short-chained carbonyl compounds from Eucalyptus spp. in southern Australia. Atmospheric Environment, 2009, 43, 3035-3043.	1.9	85

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37	Temperatureâ€dependent release of volatile organic compounds of eucalypts by direct analysis in real time (DART) mass spectrometry. Rapid Communications in Mass Spectrometry, 2009, 23, 2241-2246.	0.7	83
38	Spatial and temporal variations in phloem sap composition of plantation-grown Eucalyptus globulus. Oecologia, 1998, 117, 312-322.	0.9	79
39	The challenge of tree height in Eucalyptus regnans: when xylem tapering overcomes hydraulic resistance. New Phytologist, 2010, 187, 1146-1153.	3.5	79
40	Steps towards a mechanistic understanding of respiratory temperature responses. New Phytologist, 2011, 189, 659-677.	3.5	79
41	Photographic exposure affects indirect estimation of leaf area in plantations of Eucalyptus globulus Labill. Agricultural and Forest Meteorology, 2000, 100, 155-168.	1.9	78
42	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
43	Diminishing CO2-driven gains in water-use efficiency of global forests. Nature Climate Change, 2020, 10, 466-471.	8.1	76
44	Nutrient cycling and nitrogen mineralization in eucalypt forests of south-eastern Australia. Plant and Soil, 1986, 92, 319-339.	1.8	75
45	31P-NMR analysis of phosphorus compounds in extracts of surface soils from selected karri (Eucalyptus diversicolor F. Muell.) forests. Soil Biology and Biochemistry, 1989, 21, 523-528.	4.2	75
46	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
47	Effects of elevated atmospheric [<scp>CO₂</scp>] on instantaneous transpiration efficiency at leaf and canopy scales in <scp>E</scp>ucalyptus saligna. Global Change Biology, 2012, 18, 585-595.	4.2	75
48	Short-term effects of biochar and salinity on soil greenhouse gas emissions from a semi-arid Australian soil after re-wetting. Geoderma, 2017, 307, 267-276.	2.3	74
49	AusTraits, a curated plant trait database for the Australian flora. Scientific Data, 2021, 8, 254.	2.4	73
50	Assessment of ecological effects due to forest harvesting: approaches and statistical issues. Journal of Applied Ecology, 2004, 41, 585-598.	1.9	72
51	Estimates of Carbon Storage in the Aboveground Biomass of Victorias Forests. Australian Journal of Botany, 1992, 40, 631.	0.3	70
52	Estimation of leaf area index in eucalypt forest with vertical foliage, using cover and fullframe fisheye photography. Forest Ecology and Management, 2007, 242, 756-763.	1.4	70
53	Sap flow measurements reveal influence of temperature and stand structure on water use of Eucalyptus regnans forests. Forest Ecology and Management, 2010, 259, 1190-1199.	1.4	67
54	Potential for rural electrification based on biomass gasification in Cambodia. Biomass and Bioenergy, 2007, 31, 656-664.	2.9	66

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55	Attack on all fronts: functional relationships between aerial and root parasitic plants and their woody hosts and consequences for ecosystems. Tree Physiology, 2011, 31, 3-15.	1.4	65
56	Global transpiration data from sap flow measurements: the SAPFLUXNET database. Earth System Science Data, 2021, 13, 2607-2649.	3.7	65
57	Targeted metabolite profiling provides a functional link among eucalypt taxonomy, physiology and evolution. Phytochemistry, 2006, 67, 402-408.	1.4	63
58	Forests and Decarbonization â€“ Roles of Natural and Planted Forests. Frontiers in Forests and Global Change, 2020, 3, .	1.0	63
59	Nitrogen mineralization and nitrate reduction in forests. Soil Biology and Biochemistry, 1982, 14, 197-202.	4.2	62
60	Title is missing!. Plant Ecology, 2003, 164, 185-199.	0.7	62
61	The apparent feed-forward response to vapour pressure deficit of stomata in droughted, field-grown Eucalyptus globulus Labill. Plant, Cell and Environment, 2004, 27, 1268-1280.	2.8	61
62	Is photosynthesis related to concentrations of nitrogen and Rubisco in leaves of Australian native plants?. Functional Plant Biology, 2000, 27, 407.	1.1	60
63	Rewetting and litter addition influence mineralisation and microbial communities in soils from a semi-arid intermittent stream. Soil Biology and Biochemistry, 2009, 41, 92-101.	4.2	60
64	Simple models for stomatal conductance derived from a process model: crossâ€validation against sap flux data. Plant, Cell and Environment, 2012, 35, 1647-1662.	2.8	60
65	Phosphatase activity and phosphorus fractions in Karri (Eucalyptus diversicolor F. Muell.) forest soils. Biology and Fertility of Soils, 1992, 14, 200-204.	2.3	59
66	Role of Acacia Spp. In Nutrient Balance and Cycling in Regenerating Eucalyptus regnans F. Muell. Forests. I. Temporal Changes in Biomass and Nutrient Content. Australian Journal of Botany, 1984, 32, 205.	0.3	58
67	Comparison of four methods for measuring osmotic potential of tree leaves. Physiologia Plantarum, 2006, 127, 383-392.	2.6	57
68	Quantifying uncertainty from large-scale model predictions of forest carbon dynamics. Global Change Biology, 2006, 12, 1421-1434.	4.2	57
69	Urbanâ€“wildland fires: how California and other regions of the US can learn from Australia. Environmental Research Letters, 2009, 4, 014010.	2.2	57
70	Role of soil drying in nitrogen mineralization and microbial community function in semi-arid grasslands of north-west Australia. Soil Biology and Biochemistry, 2007, 39, 1557-1569.	4.2	56
71	Nitrate reductase activity and growth response of forest species to ammonium and nitrate sources of nitrogen. Plant and Soil, 1982, 66, 373-381.	1.8	55
72	Premature Decline of Eucalyptus and Altered Ecosystem Processes in the Absence of Fire in Some Australian Forests. Botanical Review, The, 2009, 75, 191-202.	1.7	55

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73	Trade-offs between the persistence of foliage and productivity in two Pinus species. Oecologia, 2000, 124, 487-494.	0.9	54
74	Eucalypt smoke and wildfires: Temperature dependent emissions of biogenic volatile organic compounds. International Journal of Mass Spectrometry, 2009, 279, 126-133.	0.7	54
75	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
76	Water and Nutrient Dynamics in Surface Roots and Soils are not Modified by Short-term Flooding of Phreatophytic Plants in a Hyperarid Desert. Plant and Soil, 2006, 279, 129-139.	1.8	53
77	An analytical model of nonâ€photorespiratory CO₂ release in the light and dark in leaves of C₃ species based on stoichiometric flux balance. Plant, Cell and Environment, 2011, 34, 89-112.	2.8	52
78	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
79	Productivity, carbon isotope discrimination and leaf traits of trees of Eucalyptus globulus Labill. in relation to water availability. Plant, Cell and Environment, 2004, 27, 1515-1524.	2.8	50
80	Diurnal patterns of water use in Eucalyptus victrix indicate pronounced desiccation-rehydration cycles despite unlimited water supply. Tree Physiology, 2011, 31, 1041-1051.	1.4	50
81	Nitrogen and phosphorus cycling in relation to stand age of Eucalyptus regnans F. Muell. Plant and Soil, 1992, 142, 177-185.	1.8	49
82	Close-Range Vertical Photography for Measuring Cover Changes in Perennial Grasslands. Journal of Range Management, 2000, 53, 634.	0.3	49
83	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
84	Woody legumes: a (re)view from the South. Tree Physiology, 2010, 30, 1072-1082.	1.4	48
85	Nitrogen and phosphorus cycling in relation to stand age of Eucalypus regnans F. Muell.. Plant and Soil, 1992, 142, 167-176.	1.8	47
86	Relationships between empirical and nominal indices of landscape function in the arid shrubland of Western Australia. Journal of Arid Environments, 2002, 50, 1-21.	1.2	47
87	Nitrogen fixation and metabolism by groundwater-dependent perennial plants in a hyperarid desert. Oecologia, 2004, 141, 385-394.	0.9	47
88	Salt tolerance in Eucalyptus spp.: identity and response of putative osmolytes. Plant, Cell and Environment, 2005, 28, 772-787.	2.8	47
89	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
90	The role of continental shelf width in determining freshwater phylogeographic patterns in southâ€eastern <scp>A</scp>ustralian pygmy perches (<scp>T</scp>eleostei:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 57 Td (<scp>P</sc	2.0	46

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91	Interactive effects of elevated CO2 and drought on nocturnal water fluxes in Eucalyptus saligna. Tree Physiology, 2011, 31, 932-944.	1.4	45
92	Water availability and branch length determine Â13C in foliage of Pinus pinaster. Tree Physiology, 2000, 20, 637-643.	1.4	44
93	Response of a perennial grassland to nitrogen and phosphorus additions in sub-tropical, semi-arid Australia. Journal of Arid Environments, 2001, 48, 289-308.	1.2	41
94	Water flux of Eucalyptus regnans: defying summer drought and a record heatwave in 2009. Oecologia, 2013, 172, 317-326.	0.9	41
95	The Effect of Land-Use Change on Soil CH4 and N2O Fluxes: A Global Meta-Analysis. Ecosystems, 2019, 22, 1424-1443.	1.6	41
96	Patterns of genetic variation in a group of parasites, The Australian reptile ticks. Heredity, 1984, 53, 509-525.	1.2	40
97	Decline of Eucalyptus tereticornis Near Bairnsdale, Victoria: Insect Herbivory and Nitrogen Fractions in Sap and Foliage. Australian Journal of Botany, 1995, 43, 39.	0.3	40
98	Direct determination of phosphate in soil extracts by potentiometric flow injection using a cobalt wire electrode. Analytica Chimica Acta, 1998, 363, 191-197.	2.6	40
99	Simultaneous Analysis of Amino and Organic Acids in Extracts of Plant Leaves astert-Butyldimethylsilyl Derivatives by Capillary Gas Chromatography. Analytical Biochemistry, 1998, 259, 203-211.	1.1	40
100	Tracking the origins of the Kok effect, 70 years after its discovery. New Phytologist, 2017, 214, 506-510.	3.5	40
101	Characterisation of hydrogen isotope profiles in an agroforestry system: implications for tracing water sources of trees. Agricultural Water Management, 2000, 45, 229-241.	2.4	39
102	Differences in water use between mature and post-fire regrowth stands of subalpine Eucalyptus delegatensis R. Baker. Forest Ecology and Management, 2012, 270, 1-10.	1.4	39
103	Fire Eases Imbalances of Nitrogen and Phosphorus in Woody Plants. Ecosystems, 2015, 18, 769-779.	1.6	39
104	Nitrogen and Phosphorus Availability and the Role of Fire in Heathlands at Wilsons Promontory. Australian Journal of Botany, 1994, 42, 269.	0.3	38
105	Phosphorus sources and availability modify growth and distribution of root clusters and nodules of native Australian legumes. Plant, Cell and Environment, 2002, 25, 837-850.	2.8	38
106	Quantifying and predicting spatio-temporal variability of soil CH 4 and N 2 O fluxes from a seemingly homogeneous Australian agricultural field. Agriculture, Ecosystems and Environment, 2017, 240, 182-193.	2.5	38
107	Nocturnal water loss in mature subalpine Eucalyptus delegatensis tall open forests and adjacent E. pauciflora woodlands. Ecology and Evolution, 2011, 1, 435-450.	0.8	37
108	Three parameters comprehensively describe the temperature response of respiratory oxygen reduction. Plant, Cell and Environment, 2008, 31, 954-967.	2.8	36

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109	Application of an enthalpy balance model of the relation between growth and respiration to temperature acclimation of Eucalyptus globulus seedlings. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1499-1507.	1.2	35
110	Nitrogen uptake by Eucalyptus regnans and Acacia spp. - preferences, resource overlap and energetic costs. Tree Physiology, 2009, 29, 389-399.	1.4	35
111	Role of Acacia Spp. In Nutrient Balance and Cycling in Regenerating Eucalyptus regnans F. Muell. Forests. II. Field Studies of Acetylene Reduction. Australian Journal of Botany, 1984, 32, 217.	0.3	35
112	The tree - crop interface: the effects of root pruning in south-western Australia. Australian Journal of Experimental Agriculture, 2002, 42, 763.	1.0	34
113	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
114	Insulation capacity of three bark types of temperate Eucalyptus species. Forest Ecology and Management, 2014, 313, 224-232.	1.4	34
115	Crops, Nitrogen, Water: Are Legumes Friend, Foe, or Misunderstood Ally?. Trends in Plant Science, 2018, 23, 539-550.	4.3	33
116	Nutrient balance in forests of northern Tasmania. 2. Alteration of nutrient availability and soil-water chemistry as a result of logging, slash-burning and fertilizer application. Forest Ecology and Management, 1991, 44, 115-131.	1.4	32
117	Soil Functional Responses to Excess Nitrogen Inputs at Global Scale. Ambio, 2004, 33, 530-536.	2.8	32
118	Sequential fractionation and characterisation (31P-NMR) of phosphorus-amended soils in Banksia integrifolia (L.f.) woodland and adjacent pasture. Soil Biology and Biochemistry, 2000, 32, 169-177.	4.2	31
119	Vegetation type determines heterotrophic respiration in subalpine Australian ecosystems. Global Change Biology, 2010, 16, 209-219.	4.2	31
120	Î´13 C of wood in growth-rings indicates cambial activity of drought-stressed trees of Eucalyptus globulus. Functional Ecology, 1998, 12, 655-664.	1.7	30
121	What determines rates of photosynthesis per unit nitrogen in Eucalyptus seedlings?. Functional Plant Biology, 2004, 31, 1169.	1.1	30
122	A standardization method to disentangle environmental information from axial trends of xylem anatomical traits. Tree Physiology, 2019, 39, 495-502.	1.4	30
123	CO2, nitrogen deposition and a discontinuous climate response drive water use efficiency in global forests. Nature Communications, 2021, 12, 5194.	5.8	30
124	Nutrient balance in forests of northern Tasmania. 1. Atmospheric inputs and within-stand cycles. Forest Ecology and Management, 1991, 44, 93-113.	1.4	29
125	Using aminoâ€nitrogen pools and fluxes to identify contributions of understoryAcaciaspp. to overstoryEucalyptus regnansand stand nitrogen uptake in temperate Australia. New Phytologist, 2009, 183, 1097-1113.	3.5	29
126	Nitrogen mineralization potential in rewetted soils from a semi-arid stream landscape, north-west Australia. Journal of Arid Environments, 2009, 73, 48-54.	1.2	29

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127	Respiratory quotients and Q10 of soil respiration in sub-alpine Australia reflect influences of vegetation types. Soil Biology and Biochemistry, 2011, 43, 1266-1274.	4.2	29
128	Photosynthetic benefits of ultraviolet-A to Pimelea ligustrina, a woody shrub of sub-alpine Australia. Oecologia, 2013, 173, 375-385.	0.9	29
129	Broadacre crop yield in the lee of windbreaks in the medium and low rainfall areas of south-western Australia. Australian Journal of Experimental Agriculture, 2002, 42, 739.	1.0	28
130	Loss of patch-scale heterogeneity on primary productivity and rainfall-use efficiency in Western Australia. Basic and Applied Ecology, 2003, 4, 569-578.	1.2	28
131	The Kok effect in <scp>V</scp>icia faba cannot be explained solely by changes in chloroplastic <scp>CO</scp>₂ concentration. New Phytologist, 2017, 216, 1064-1071.	3.5	28
132	Causes and consequences of Eastern Australiaâ€™s 2019â€“20 season of megaâ€fires: A broader perspective. Global Change Biology, 2020, 26, 3756-3758.	4.2	28
133	Tree decline in southeastern Australia: Nitrate reductase activity and indications of unbalanced nutrition in Eucalyptus ovata (Labill.) and E. camphora (R.T. Baker) communities at Yellingbo, Victoria. Oecologia, 1994, 98, 221-228.	0.9	27
134	Indices for characterising spatial variability of soil nitrogen semi-arid grasslands of Northwestern Australia. Soil Biology and Biochemistry, 1999, 31, 735-746.	4.2	27
135	Quercitol links the physiology, taxonomy and evolution of 279 eucalypt species. Global Ecology and Biogeography, 2007, 16, 810-819.	2.7	27
136	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
137	Possible causes of slow growth of nitrate-suppliedPinus pinaster. Canadian Journal of Forest Research, 2002, 32, 569-580.	0.8	26
138	Photosynthetic capacity is negatively correlated with the concentration of leaf phenolic compounds across a range of different species. AoB PLANTS, 2012, 2012, pls025.	1.2	26
139	Stand water use status in relation to fire in a mixed species eucalypt forest. Forest Ecology and Management, 2013, 304, 162-170.	1.4	26
140	31P-NMR identification of phosphorus compounds in neutral extracts of mountain ash (Eucalyptus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.2	25
141	Availability of nitrogen and phosphorus in forest soils in northeastern Tasmania. Biology and Fertility of Soils, 1989, 8, 212.	2.3	24
142	Simultaneous determination of aliphatic and aromatic acids in plant tissue extracts by ion-exclusion chromatography. Analytica Chimica Acta, 1999, 386, 249-256.	2.6	24
143	Productivity of an Australian mountain grassland is limited by temperature and dryness despite long growing seasons. Agricultural and Forest Meteorology, 2018, 256-257, 116-124.	1.9	24
144	Patterns of nitrogen mineralization in 23-year old pine forest following nitrogen fertilizing. Forest Ecology and Management, 1984, 7, 241-248.	1.4	23

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145	Combustion influences on natural abundance nitrogen isotope ratio in soil and plants following a wildfire in a sub-alpine ecosystem. Oecologia, 2013, 173, 1063-1074.	0.9	23
146	Production of pyrogenic carbon during planned fires in forests of East Gippsland, Victoria. Forest Ecology and Management, 2016, 373, 9-16.	1.4	23
147	Contrasting responses of crop legumes and cereals to nitrogen availability. New Phytologist, 2018, 217, 1475-1483.	3.5	23
148	Do variations on a model of landscape function assist in interpreting the growth response of vegetation to rainfall in arid environments?. Journal of Arid Environments, 2002, 50, 23-52.	1.2	22
149	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
150	Temperature responses are a window to the physiology of dark respiration: differences between CO2release and O2reduction shed light on energy conservation. Plant, Cell and Environment, 2008, 31, 901-914.	2.8	22
151	Ecophysiology of ectomycorrhizal fungi associated with Pinus spp. in low rainfall areas of Western Australia. Plant Ecology, 2004, 171, 35-52.	0.7	21
152	What determines interspecific variation in relative growth rate of Eucalyptus seedlings?. Oecologia, 2005, 144, 373-381.	0.9	21
153	Stable osmotica in Eucalyptus spathulata â€" responses to salt and water deficit stress. Functional Plant Biology, 2005, 32, 797.	1.1	21
154	Effects of mound-cultivation (bedding) on concentration and conservation of nutrients in a sandy podzol. Forest Ecology and Management, 1985, 11, 97-110.	1.4	20
155	Nitrogen availability and weed invasion in a remnant native woodland in urban Melbourne. Austral Ecology, 2006, 31, 262-270.	0.7	20
156	Harnessing forest ecological sciences in the service of stewardship and sustainability. Forest Ecology and Management, 2008, 256, 1636-1645.	1.4	20
157	Evaluation of anion exchange membranes to estimate bioavailable phosphorus in native grasslands of semiâ€arid Northwestern Australia. Communications in Soil Science and Plant Analysis, 1999, 30, 2231-2244.	0.6	19
158	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
159	Variations saisonniÃ¨res des hydrates de carbone, des cyclitols et des relations hydriques chez 3 espÃ¨ces dâ€™Eucalyptus de taxonomie contrastÃ©e, en plein champ et poussant sur un site commun. Annals of Forest Science, 2010, 67, 104-104.	0.8	19
160	Emissions from prescribed fires in temperate forest in south-east Australia: implications for carbon accounting. Biogeosciences, 2015, 12, 257-268.	1.3	19
161	Effects of phosphorus supply on growth and nitrogen fractions in xylem sap and foliage of Eucalyptus regnans (F.Muell.), E. nitens (Maiden) and E. globulus (Labill.) seedlings: implications for herbivory. Trees - Structure and Function, 1995, 9, 324-331.	0.9	18
162	Indirect photometric detection of aliphatic acids separated by ion-exclusion chromatography using aromatic acidic eluents. Journal of Chromatography A, 1998, 818, 61-68.	1.8	18

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163	2,6-Pyridinedicarboxylic acid as an eluent for UV and conductivity detection of inorganic anions, magnesium and calcium in water by ion chromatography. Chromatographia, 1999, 49, 496-502.	0.7	18
164	Mineralisation of nitrogen in a chronosequence of rehabilitated bauxite mines. Soil Research, 2000, 38, 435.	0.6	18
165	Compoundâ€specific differences in ¹³C of soluble carbohydrates in leaves and phloem of 6â€monthâ€old Eucalyptus globulus (Labill). Plant, Cell and Environment, 2011, 34, 1599-1608.	2.8	18
166	Optimization of photosynthesis and stomatal conductance in the date palm Phoenix dactylifera during acclimation to heat and drought. New Phytologist, 2019, 223, 1973-1988.	3.5	18
167	Effect of N source on concentration of Rubisco inEucalyptus diversicolor, as measured by capillary electrophoresis. Physiologia Plantarum, 2000, 110, 52-58.	2.6	17
168	Hydraulic traits and water use of Eucalyptus on restored versus natural sites in a seasonally dry forest in southwestern Australia. Forest Ecology and Management, 2012, 274, 58-66.	1.4	17
169	Rainfall drives variation in rates of change in intrinsic water use efficiency of tropical forests. Nature Communications, 2019, 10, 3661.	5.8	17
170	Overestimated gains in waterâ€use efficiency by global forests. Global Change Biology, 2022, 28, 4923-4934.	4.2	17
171	Water stress impacts on respiratory rate, efficiency and substrates, in growing and mature foliage of Eucalyptus spp. Planta, 2006, 224, 680-691.	1.6	16
172	Estimation of drought-related limitations to mid-rotation aged plantation grown Eucalyptus globulus by phloem sap analysis. Forest Ecology and Management, 2008, 256, 844-848.	1.4	16
173	Does triacylglycerol (TAG) serve a photoprotective function in plant leaves? An examination of leaf lipids under shading and drought. Physiologia Plantarum, 2017, 161, 400-413.	2.6	16
174	Enhanced decomposition and nitrogen mineralization sustain rapid growth of Eucalyptus regnans after wildfire. Journal of Ecology, 2017, 105, 229-236.	1.9	16
175	A metallic cobalt electrode for the indirect potentiometric determination of calcium and magnesium in natural waters using flow injection analysis. Talanta, 1998, 47, 779-786.	2.9	15
176	Disentangling respiratory acclimation and adaptation to growth temperature by Eucalyptus. New Phytologist, 2012, 195, 149-163.	3.5	15
177	Litter cover as an index of nitrogen availability in rehabilitated mine sites. Soil Research, 2000, 38, 423.	0.6	14
178	Soil Water Nitrate and Ammonium Dynamics under a Sewage Effluentâ€“Irrigated Eucalypt Plantation. Journal of Environmental Quality, 2007, 36, 1883-1894.	1.0	14
179	Relations of sugar composition and Î´¹³C in phloem sap to growth and physiological performance of Eucalyptus globulus (Labill). Plant, Cell and Environment, 2010, 33, 1361-1368.	2.8	14
180	Characterization of photosynthetic acclimation in Phoenix dactylifera by a modified Arrhenius equation originally developed for leaf respiration. Trees - Structure and Function, 2017, 31, 623-644.	0.9	14

#	Article	IF	Citations
181	Phosphorus availability and the growth, mineral composition and nutritive value of ephemeral forbs and associated perennials from the Pilbara, Western Australia. Australian Journal of Experimental Agriculture, 1999, 39, 149.	1.0	14
182	RETENTION BEHAVIOR AND SIMULTANEOUS SEPARATION OF CARBOXYLIC AND AROMATIC ACIDS USING ION-EXCLUSION CHROMATOGRAPHY. Journal of Liquid Chromatography and Related Technologies, 1999, 22, 2595-2611.	0.5	13
183	Sensitivity of respiratory metabolism and efficiency to foliar nitrogen during growth and maintenance. Global Change Biology, 2008, 14, 1233-1251.	4.2	13
184	Modern tools to tackle traditional concerns: Evaluation of site productivity and Pinus radiata management via Î´13C- and Î´18O-analysis of tree-rings. Forest Ecology and Management, 2012, 285, 227-238.	1.4	13
185	Validation of canopy transpiration in a mixed-species foothill eucalypt forest using a soilâ€“plantâ€“atmosphere model. Journal of Hydrology, 2013, 492, 219-227.	2.3	13
186	Pyrogenic carbon: the influence of particle size and chemical composition on soil carbon release. International Journal of Wildland Fire, 2014, 23, 1027.	1.0	13
187	Capillary electrophoresis of the major anions and cations in leaf extracts of woody species. Phytochemical Analysis, 2004, 15, 407-413.	1.2	12
188	Chapter 14 Smoke from Wildfires and Prescribed Burning in Australia: Effects on Human Health and Ecosystems. Developments in Environmental Science, 2008, , 289-316.	0.5	12
189	Siteâ€specific responses to shortâ€term environmental variation are reflected in leaf and phloemâ€sap carbon isotopic abundance of field grown Eucalyptus globulus. Physiologia Plantarum, 2012, 146, 448-459.	2.6	12
190	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
191	Allometric equations for biomass and carbon stocks of forests along an altitudinal gradient in the eastern Himalayas. Forestry, 2017, 90, 445-454.	1.2	11
192	Optimisation of fuel reduction burning regimes for carbon, water and vegetation outcomes. Journal of Environmental Management, 2017, 203, 157-170.	3.8	11
193	Lack of genetic variation in tree ring Â13C suggests a uniform, stomatally-driven response to drought stress across Pinus radiata genotypes. Tree Physiology, 2008, 29, 191-198.	1.4	10
194	The Effects of Atmospheric Nitrogen Deposition on Terrestrial and Freshwater Biodiversity. , 2014, , 465-480.		10
195	Mapping spatial and temporal variation in tree water use with an elevation model and gridded temperature data. Agricultural and Forest Meteorology, 2015, 200, 249-257.	1.9	10
196	Different models provide equivalent predictive power for cross-biome response of leaf respiration to temperature. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5993-E5995.	3.3	10
197	A novel mechanistic interpretation of instantaneous temperature responses of leaf net photosynthesis. Photosynthesis Research, 2016, 129, 43-58.	1.6	10
198	Estimates of rhizosphere priming effects are affected by soil disturbance. Geoderma, 2018, 313, 1-6.	2.3	10

#	Article	IF	Citations
199	Mistletoes and their eucalypt hosts differ in the response of leaf functional traits to climatic moisture supply. Oecologia, 2021, 195, 759-771.	0.9	10
200	Non-Suppressed Conductivity Detection of Organic Acids in Plant Tissue Extracts by Ion-Exclusion Chromatography with Aromatic Acid Eluents. Journal of Liquid Chromatography and Related Technologies, 1998, 21, 2435-2445.	0.5	9
201	A critical review of the science underpinning fire management in the high altitude ecosystems of south-eastern Australia. Forest Ecology and Management, 2013, 294, 225-237.	1.4	9
202	Stomatal structure and physiology do not explain differences in water use among montane eucalypts. Oecologia, 2015, 177, 1171-1181.	0.9	9
203	Mesophyll photosynthetic sensitivity to leaf water potential in Eucalyptus: a new dimension of plant adaptation to native moisture supply. New Phytologist, 2021, 230, 1844-1855.	3.5	9
204	Fertilizer impacts on the understorey of a regenerating Mountain Ash (Eucalyptus regnans F. Muell.) forest, Victoria. Austral Ecology, 1996, 21, 459-463.	0.7	8
205	Integrating two physiological approaches helps relate respiration to growth of Pinus radiata. New Phytologist, 2008, 180, 841-852.	3.5	8
206	A test of how coupling of vegetation to the atmosphere and climate spatial variation affects water yield modelling in mountainous catchments. Journal of Hydrology, 2014, 514, 202-213.	2.3	8
207	Short-Term Forecasting of Water Yield from Forested Catchments after Bushfire: A Case Study from Southeast Australia. Water (Switzerland), 2015, 7, 599-614.	1.2	8
208	Vessel diameter and related hydraulic traits of 31Eucalyptusspecies arrayed along a gradient of water availability. Ecology, 2016, 97, 1626-1626.	1.5	8
209	Separation of Rubisco in Extracts of Plant Leaves by Capillary Electrophoresis with Sieving Polymers. Analytical Letters, 2000, 33, 579-587.	1.0	7
210	Nutrient Distribution among Metabolic Fractions in 2 Atriplex spp.. Journal of Range Management, 2000, 53, 79.	0.3	7
211	Architectural plasticity in young Eucalyptus marginata on restored bauxite mines and adjacent natural forest in south-western Australia. Tree Physiology, 2009, 29, 1033-1045.	1.4	7
212	Quercitol plays a key role in stress tolerance of Eucalyptus leptophylla (F. Muell) in naturally occurring saline conditions. Environmental and Experimental Botany, 2009, 65, 296-303.	2.0	7
213	Relationships among microclimate, edaphic conditions, vegetation distribution and soil nitrogen dynamics on the Bogong High Plains, Australia. Austral Ecology, 2011, 36, 142-152.	0.7	7
214	Three physiological parameters capture variation in leaf respiration of <scp>Eucalyptus grandis</scp>, as elicited by shortâ€term changes in ambient temperature, and differing nitrogen supply. Plant, Cell and Environment, 2018, 41, 1369-1382.	2.8	7
215	Can a growth model be used to describe forest carbon and water balance after fuel reduction burning in temperate forests?. Science of the Total Environment, 2018, 615, 1000-1009.	3.9	7
216	Relating water use to morphology and environment of Nothofagus from the worldâ€™s most southern forests. Trees - Structure and Function, 2014, 28, 125-136.	0.9	6

#	Article	IF	Citations
217	Assessing the impact of largeâ€scale water table modifications on riparian trees: a case study from Australia. Ecohydrology, 2015, 8, 642-651.	1.1	6
218	Grand Challenges: Forests and Global Change. Frontiers in Forests and Global Change, 2018, 1, .	1.0	6
219	Plant and soil P determine functional attributes of subalpine Australian plants. Arctic, Antarctic, and Alpine Research, 2018, 50, .	0.4	6
220	Dynamics of necromass in woody Australian ecosystems. Ecosphere, 2021, 12, e03693.	1.0	6
221	Nitrogen Deposition Effects on Ecosystem Services and Interactions with other Pollutants and Climate Change. , 2014, , 493-505.		5
222	Anatomical and physiological regulation of post-fire carbon and water exchange in canopies of two resprouting Eucalyptus species. Oecologia, 2014, 176, 333-343.	0.9	5
223	Regeneration of the legumes Acacia ancistrocarpa and Senna notabilis in the Pilbara region of Western Australia: mineral nutrition and carbon fractions. Australian Journal of Botany, 2000, 48, 435.	0.3	5
224	Empirical and model-based estimates of spatial and temporal variations in net primary productivity in semi-arid grasslands of Northern China. PLoS ONE, 2017, 12, e0187678.	1.1	4
225	Managing mixed Callitris-Eucalyptus forests for carbon and energy in central-eastern Australia. Biomass and Bioenergy, 2020, 140, 105656.	2.9	4
226	Plasticity of Leaf Respiratory and Photosynthetic Traits in Eucalyptus grandis and E. regnans Grown Under Variable Light and Nitrogen Availability. Frontiers in Forests and Global Change, 2020, 3, .	1.0	4
227	Ecological effects of harvesting in Victoria's native forests: quantification of research outputs. Australian Forestry, 2004, 67, 212-221.	0.3	3
228	Improving forest sampling strategies for assessment of fuel reduction burning. Forest Ecology and Management, 2017, 392, 78-89.	1.4	3
229	Solar UV Upregulates Photoprotection but Slows Photosynthesis in Subalpine Australian Plants. Arctic, Antarctic, and Alpine Research, 2017, 49, 673-685.	0.4	3
230	Soil Respiration in Future Global Change Scenarios. Soil Biology, 2011, , 131-153.	0.6	3
231	Does season and grazing influence the Î´13 C and Î´15 N of C 4 native grasses in semi-arid rangelands of the Pilbara region of NW Australia?. Agriculture, Ecosystems and Environment, 2017, 236, 277-284.	2.5	1
232	Mineral nutrition of sub-alpine Australian vegetation under nutrient deficiency depends on lifeform. Environmental and Experimental Botany, 2019, 160, 92-100.	2.0	1
233	Disproportionate CH4 Sink Strength from an Endemic, Sub-Alpine Australian Soil Microbial Community. Microorganisms, 2021, 9, 606.	1.6	1
234	Contrasts between Eucalyptus subgenera. Functional Ecology, 2000, 14, 654-654.	1.7	0

#	Article	IF	Citations
235	Continental and local climatic influences on hydrology of eucalyptâ€Nothofagus ecosystems revealed by Î´²H, Î´¹³C, and Î´¹⁸O of ecosystem samples. Water Resources Research, 2010, 46, .	1.7	0
236	Topography not tenure controls extent of wildfire within Mountain Ash forests. Environmental Research Letters, 2021, 16, 044021.	2.2	0