List of Publications by Year in descending order

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DEDER FAMILS

#	Article	IF	CITATIONS
1	Tree allometry and improved estimation of carbon stocks and balance in tropical forests. Oecologia, 2005, 145, 87-99.	2.0	2,346
2	Reconciling the optimal and empirical approaches to modelling stomatal conductance. Global Change Biology, 2011, 17, 2134-2144.	9.5	847
3	The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. Scientific Data, 2020, 7, 225.	5.3	646
4	The Direct Effects of Increase in the Global Atmospheric CO2 Concentration on Natural and Commercial Temperate Trees and Forests. Advances in Ecological Research, 1989, 19, 1-55.	2.7	502
5	Ecosystem resilience despite large-scale altered hydroclimatic conditions. Nature, 2013, 494, 349-352.	27.8	450
6	Optimal stomatal behaviour around the world. Nature Climate Change, 2015, 5, 459-464.	18.8	397
7	The interaction of rising CO2 and temperatures with water use efficiency. Plant, Cell and Environment, 1991, 14, 843-852.	5.7	311
8	LEAF PHENOLOGY OF WOODY SPECIES IN A NORTH AUSTRALIAN TROPICAL SAVANNA. Ecology, 1997, 78, 2542-2558.	3.2	268
9	Ecophysiological traits of deciduous and evergreen woody species in the seasonally dry tropics. Trends in Ecology and Evolution, 1999, 14, 11-16.	8.7	219
10	Estimation of leaf area index in eucalypt forest using digital photography. Agricultural and Forest Meteorology, 2007, 143, 176-188.	4.8	219
11	A functional methodology for determining the groundwater regime needed to maintain the health of groundwater-dependent vegetation. Australian Journal of Botany, 2006, 54, 97.	0.6	181
12	Spatial patterns and temporal dynamics in savanna vegetation phenology across the North Australian Tropical Transect. Remote Sensing of Environment, 2013, 139, 97-115.	11.0	176
13	Ecophysiology of trees of seasonally dry tropics: Comparisons among phenologies. Advances in Ecological Research, 2001, 32, 113-197.	2.7	169
14	The critical amplifying role of increasing atmospheric moisture demand on tree mortality and associated regional die-off. Frontiers in Plant Science, 2013, 4, 266.	3.6	163
15	Global changeâ€ŧype droughtâ€induced tree mortality: vapor pressure deficit is more important than temperature per se in causing decline in tree health. Ecology and Evolution, 2013, 3, 2711-2729.	1.9	160
16	Carbon balance of a tropical savanna of northern Australia. Oecologia, 2003, 137, 405-416.	2.0	159
17	An introduction to the Australian and New Zealand flux tower network – OzFlux. Biogeosciences, 2016, 13, 5895-5916.	3.3	159
18	Evapotranspiration from Eucalypt open-forest savanna of Northern Australia. Functional Ecology, 2000, 14, 183-194.	3.6	150

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19	Abrupt shifts in phenology and vegetation productivity under climate extremes. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2036-2052.	3.0	149
20	Groundwater-dependent ecosystems: the where, what and why of GDEs. Australian Journal of Botany, 2006, 54, 91.	0.6	147
21	Seasonal and Diurnal Patterns of Carbon Assimilation, Stomatal Conductance and Leaf Water Potential in Eucalyptus tetrodonta Saplings in a Wet - Dry Savanna in Northern Australia. Australian Journal of Botany, 1997, 45, 241.	0.6	130
22	Seasonal responses of xylem sap velocity to VPD and solar radiation during drought in a stand of native trees in temperate Australia. Functional Plant Biology, 2004, 31, 461.	2.1	120
23	Groundwater-dependent ecosystems: recent insights from satellite and field-based studies. Hydrology and Earth System Sciences, 2015, 19, 4229-4256.	4.9	116
24	Carbon and water fluxes in an arid-zone Acacia savanna woodland: An analyses of seasonal patterns and responses to rainfall events. Agricultural and Forest Meteorology, 2013, 182-183, 225-238.	4.8	115
25	Leaf attributes in the seasonally dry tropics: a comparison of four habitats in northern Australia. Functional Ecology, 2003, 17, 504-515.	3.6	113
26	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.	4.8	108
27	Water balance of a tropical woodland ecosystem, Northern Australia: A combination of micro-meteorological, soil physical and groundwater chemical approaches. Journal of Hydrology, 1998, 210, 161-177.	5.4	102
28	The peaked response of transpiration rate to vapour pressure deficit in field conditions can be explained by the temperature optimum of photosynthesis. Agricultural and Forest Meteorology, 2014, 189-190, 2-10.	4.8	102
29	Seasonal changes in photosynthesis of eight savanna tree species. Tree Physiology, 1999, 19, 665-671.	3.1	101
30	Groundwater-dependent ecosystems in Australia: It's more than just water for rivers. Ecological Management and Restoration, 2003, 4, 110-113.	1.5	101
31	Use of satellite leaf area index estimating evapotranspiration and gross assimilation for Australian ecosystems. Ecohydrology, 2018, 11, e1974.	2.4	100
32	Composition, leaf area index and standing biomass of eucalypt open forests near Darwin in the Northern Territory, Australia. Australian Journal of Botany, 2000, 48, 629.	0.6	99
33	Rates of nocturnal transpiration in two evergreen temperate woodland species with differing water-use strategies. Tree Physiology, 2010, 30, 988-1000.	3.1	99
34	Dynamics of component carbon fluxes in a semiâ€arid <i>Acacia</i> woodland, central Australia. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1168-1185.	3.0	94
35	Fly-ash: An exploitable resource for management of Australian agricultural soils. Fuel, 2006, 85, 2337-2344.	6.4	93
36	Convergence of tree water use within an arid-zone woodland. Oecologia, 2009, 160, 643-655.	2.0	93

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37	Seasonal Variation in Water Relations of Trees of Differing Leaf Phenology in a Wet - Dry Tropical Savanna near Darwin, Northern Australia. Australian Journal of Botany, 1997, 45, 225.	0.6	92
38	Groundwater use by vegetation in a tropical savanna riparian zone (Daly River, Australia). Journal of Hydrology, 2005, 310, 280-293.	5.4	92
39	An analysis of the sensitivity of sap flux to soil and plant variables assessed for an Australian woodland using a soil - plant - atmosphere model. Functional Plant Biology, 2008, 35, 509.	2.1	92
40	Stomatal and non-stomatal limitations of photosynthesis for four tree species under drought: A comparison of model formulations. Agricultural and Forest Meteorology, 2017, 247, 454-466.	4.8	91
41	Year patterns of climate impact on wheat yields. International Journal of Climatology, 2014, 34, 518-528.	3.5	88
42	Fire in Australian savannas: from leaf to landscape. Global Change Biology, 2015, 21, 62-81.	9.5	88
43	Monsoonal influences on evapotranspiration of savanna vegetation of northern Australia. Oecologia, 2001, 126, 434-443.	2.0	87
44	Tree growth rates in north Australian savanna habitats: seasonal patterns and correlations with leaf attributes. Australian Journal of Botany, 2004, 52, 303.	0.6	87
45	Soil moisture controls on phenology and productivity in a semi-arid critical zone. Science of the Total Environment, 2016, 568, 1227-1237.	8.0	87
46	Drought rapidly diminishes the large net CO2 uptake in 2011 over semi-arid Australia. Scientific Reports, 2016, 6, 37747.	3.3	83
47	Seasonal Patterns in Soil Moisture, Vapour Pressure Deficit, Tree Canopy Cover and Pre-dawn Water Potential in a Northern Australian Savanna. Australian Journal of Botany, 1997, 45, 211.	0.6	82
48	A cost-benefit analysis of leaves of four Australian savanna species. Tree Physiology, 1998, 18, 537-545.	3.1	82
49	Comparing the Penman–Monteith equation and a modified Jarvis–Stewart model with an artificial neural network to estimate stand-scale transpiration and canopy conductance. Journal of Hydrology, 2009, 373, 256-266.	5.4	82
50	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. Journal of Geophysical Research, 2012, 117, .	3.3	79
51	Diurnal and Seasonal Comparisons of Assimilation, Phyllode Conductance and Water Potential of Three Acacia and One Eucalyptus Species in the Wet - Dry Tropics of Australia. Australian Journal of Botany, 1997, 45, 275.	0.6	77
52	The response of sap flow to pulses of rain in a temperate Australian woodland. Plant and Soil, 2008, 305, 121-130.	3.7	77
53	Root biomass and root fractal analyses of an open Eucalyptus forest in a savanna of north Australia. Australian Journal of Botany, 2002, 50, 31.	0.6	75
54	Effects of elevated atmospheric [<scp>CO₂</scp>] on instantaneous transpiration efficiency at leaf and canopy scales in <scp><i>E</i></scp> <i>ucalyptus saligna</i> . Global Change Biology, 2012, 18, 585-595.	9.5	75

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55	Stomatal responses to a range of variables in two tropical tree species grown with CO2enrichment. Journal of Experimental Botany, 1994, 45, 539-546.	4.8	73
56	Sulphate and ammonium in mist impair the frost hardening of red spruce seedlings. New Phytologist, 1991, 118, 119-126.	7.3	72
57	Evapotranspiration seasonality across the Amazon Basin. Earth System Dynamics, 2017, 8, 439-454.	7.1	71
58	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.	3.2	70
59	The Australian SuperSite Network: A continental, long-term terrestrial ecosystem observatory. Science of the Total Environment, 2016, 568, 1263-1274.	8.0	70
60	How does ecosystem water balance affect net primary productivity of woody ecosystems?. Functional Plant Biology, 2003, 30, 187.	2.1	69
61	The SMAP Level 4 Carbon Product for Monitoring Ecosystem Land–Atmosphere CO ₂ Exchange. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6517-6532.	6.3	69
62	Groundwater use by riparian vegetation in the wet - dry tropics of northern Australia. Australian Journal of Botany, 2006, 54, 145.	0.6	68
63	Comparing model predictions and experimental data for the response of stomatal conductance and guard cell turgor to manipulations of cuticular conductance, leafâ€toâ€air vapour pressure difference and temperature: feedback mechanisms are able to account for all observations. Plant, Cell and Environment 2008, 31, 269-277	5.7	68
64	Differences in osmotic adjustment, foliar abscisic acid dynamics, and stomatal regulation between an isohydric and anisohydric woody angiosperm during drought. Plant, Cell and Environment, 2017, 40, 3122-3134.	5.7	67
65	Groundwaterâ€dependent distribution of vegetation in Hailiutu River catchment, a semiâ€arid region in China. Ecohydrology, 2013, 6, 142-149.	2.4	65
66	The importance of interacting climate modes on Australia's contribution to global carbon cycle extremes. Scientific Reports, 2016, 6, 23113.	3.3	65
67	An automated procedure for estimating the leaf area index (LAI) of woodland ecosystems using digital imagery, MATLAB programming and its application to an examination of the relationship between remotely sensed and field measurements of LAI. Functional Plant Biology, 2008, 35, 1070.	2.1	63
68	Leaf nitrogen determination using non-destructive techniques–A review. Journal of Plant Nutrition, 2017, 40, 928-953.	1.9	63
69	Valuation of groundwater-dependent ecosystems: a functional methodology incorporating ecosystem services. Australian Journal of Botany, 2006, 54, 221.	0.6	61
70	Application of Coal Fly Ash in Agriculture: A Strategic Perspective. Critical Reviews in Environmental Science and Technology, 2012, 42, 559-600.	12.8	61
71	Photosynthetic and stomatal conductance responses to acid mist of red spruce seedlings. Plant, Cell and Environment, 1990, 13, 349-357.	5.7	60
72	Seasonal Trends in Carbon Assimilation, Stomatal Conductance, Pre-dawn Leaf Water Potential and Growth in Terminalia ferdinandiana, a Deciduous Tree of Northern Australian Savannas. Australian Journal of Botany, 1997, 45, 53.	0.6	60

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73	Reproductive Phenology of Woody Species in a North Australian Tropical Savanna1. Biotropica, 1999, 31, 626-636.	1.6	60
74	Seasonal patterns of soil carbon dioxide efflux from a wet-dry tropical savanna of northern Australia. Australian Journal of Botany, 2002, 50, 43.	0.6	60
75	ls productivity of mesic savannas light limited or water limited? Results of a simulation study. Global Change Biology, 2011, 17, 3130-3149.	9.5	60
76	Persistent effects of ozone on needle water loss and wettability in Norway spruce. Environmental Pollution, 1990, 63, 345-363.	7.5	59
77	Seasonal differences in leaf attributes in Australian tropical tree species: family and habitat comparisons. Functional Ecology, 2004, 18, 707-718.	3.6	59
78	Assessing the ability of MODIS EVI to estimate terrestrial ecosystem gross primary production of multiple land cover types. Ecological Indicators, 2017, 72, 153-164.	6.3	59
79	Long term trends of stand transpiration in a remnant forest during wet and dry years. Journal of Hydrology, 2008, 349, 200-213.	5.4	58
80	Rooting depth explains [CO2] x drought interaction in Eucalyptus saligna. Tree Physiology, 2011, 31, 922-931.	3.1	57
81	Parameterization of an ecosystem light-use-efficiency model for predicting savanna GPP using MODIS EVI. Remote Sensing of Environment, 2014, 154, 253-271.	11.0	56
82	Persistent stimulation of CO2 assimilation and stomatal conductance by summer ozone fumigation in Norway spruce. Environmental Pollution, 1990, 63, 365-379.	7.5	55
83	Changes in photosynthesis during leaf expansion in Corymbia gummifera. Australian Journal of Botany, 2003, 51, 111.	0.6	55
84	Developing an empirical model of canopy water flux describing the common response of transpiration to solar radiation and VPD across five contrasting woodlands and forests. Hydrological Processes, 2013, 27, 1133-1146.	2.6	54
85	Productivity and evapotranspiration of two contrasting semiarid ecosystems following the 2011 global carbon land sink anomaly. Agricultural and Forest Meteorology, 2016, 220, 151-159.	4.8	54
86	Seasonal patterns of fine-root productivity and turnover in a tropical savanna of northern Australia. Journal of Tropical Ecology, 2004, 20, 221-224.	1.1	53
87	Radiation- and water-use associated with growth and yields of wheat and chickpea in sole and mixed crops. European Journal of Agronomy, 2007, 26, 275-282.	4.1	53
88	A modified Jarvis-Stewart model for predicting stand-scale transpiration of an Australian native forest. Plant and Soil, 2008, 305, 35-47.	3.7	52
89	Impacts of future climate change on water resource availability of eastern Australia: A case study of the Manning River basin. Journal of Hydrology, 2019, 573, 49-59.	5.4	52
90	The influence of ozone, acid mist and soil nutrient status on Norway spruce [Picea abies (L.) Karst.]. II. Photosynthesis, dark respiration and soluble carbohydrates of trees during late autumn. New Phytologist, 1990, 115, 149-156.	7.3	51

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91	Independent effects of the environment on the leaf gas exchange of three banana (Musa sp.) cultivars of different genomic constitution. Scientia Horticulturae, 1998, 75, 41-57.	3.6	50
92	A Cost-Benefit Analysis of Leaves of Eight Australian Savanna Tree Species of Differing Leaf Life-Span. Photosynthetica, 2000, 36, 575-586.	1.7	49
93	Evapotranspiration partitioning, stomatal conductance, and components of the water balance: A special case of a desert ecosystem in China. Journal of Hydrology, 2016, 538, 374-386.	5.4	49
94	A continentalâ€scale assessment of variability in leaf traits: Within species, across sites and between seasons. Functional Ecology, 2018, 32, 1492-1506.	3.6	48
95	Recognition of key regions for restoration of phytoplankton communities in the Huai River basin, China. Journal of Hydrology, 2012, 420-421, 292-300.	5.4	47
96	Convergence in hydraulic architecture, water relations and primary productivity amongst habitats and across seasons in Sydney. Functional Plant Biology, 2004, 31, 429.	2.1	45
97	Tree rings of <i>Pinus nigra</i> from the Vienna basin region (Austria) show evidence of change in climatic sensitivity in the late 20th century. Canadian Journal of Forest Research, 2008, 38, 744-759.	1.7	45
98	Coordination of leaf area, sapwood area and canopy conductance leads to species convergence of tree water use in a remnant evergreen woodland. Australian Journal of Botany, 2008, 56, 97.	0.6	45
99	Root biomass distribution and soil properties of an open woodland on a duplex soil. Plant and Soil, 2010, 327, 377-388.	3.7	45
100	Interactive effects of elevated CO2 and drought on nocturnal water fluxes in Eucalyptus saligna. Tree Physiology, 2011, 31, 932-944.	3.1	45
101	Photosynthetic responses to temperature, light flux-density, CO2 concentration and vapour pressure deficit in Eucalyptus tetrodonta grown under CO2 enrichment. Environmental Pollution, 1995, 90, 41-49.	7.5	44
102	Optimization theory of stomatal behaviour: II. Stomatal responses of several tree species of north Australia to changes in light, soil and atmospheric water content and temperature. Journal of Experimental Botany, 1999, 50, 393-400.	4.8	44
103	The Influence of CO2 Enrichment on Growth, Nutrient Content and Biomass Allocation of Maranthes corymbosa. Australian Journal of Botany, 1993, 41, 195.	0.6	43
104	ABA Levels and Effects in Chilled and HardenedPhaseolus vulgaris. Journal of Experimental Botany, 1983, 34, 1000-1006.	4.8	42
105	Assimilation, Stomatal Conductance, Specific Leaf Area and Chlorophyll Responses to Elevated CO2 of Maranthes corymbosa, a Tropical Monsoon Rain Forest Species. Functional Plant Biology, 1993, 20, 741.	2.1	41
106	Ecosystem services: an ecophysiological examination. Australian Journal of Botany, 2005, 53, 1.	0.6	41
107	Daily, seasonal and annual patterns of transpiration from a stand of remnant vegetation dominated by a coniferous Callitris species and a broad-leaved Eucalyptus species. Physiologia Plantarum, 2006, 127, 413-422.	5.2	41
108	Coordinating leaf functional traits with branch hydraulic conductivity: resource substitution and implications for carbon gain. Tree Physiology, 2008, 28, 1169-1177.	3.1	40

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109	Assessments of Class F fly ashes for amelioration of soil acidity and their influence on growth and uptake of Mo and Se by canola. Fuel, 2010, 89, 3498-3504.	6.4	40
110	Waterâ€use efficiency in a semiâ€arid woodland with high rainfall variability. Global Change Biology, 2020, 26, 496-508.	9.5	40
111	Mechanisms underlying the amelioration of O3-induced damage by elevated atmospheric concentrations of CO2. Journal of Experimental Botany, 2004, 55, 771-781.	4.8	39
112	Influence of season, drought and xylem ABA on stomatal responses to leaf-to-air vapour pressure difference of trees of the Australian wet-dry tropics. Australian Journal of Botany, 2000, 48, 143.	0.6	38
113	Seasonal patterns of xylem sap pH, xylem abscisic acid concentration, leaf water potential and stomatal conductance of six evergreen and deciduous Australian savanna tree species. Australian Journal of Botany, 2002, 50, 229.	0.6	38
114	The validity of optimal leaf traits modelled on environmental conditions. New Phytologist, 2019, 221, 1409-1423.	7.3	38
115	Seasonal changes in hydraulic conductance, xylem embolism and leaf area inEucalyptus tetrodontaandEucalyptus miniatasaplings in a north Australian savanna. Plant, Cell and Environment, 2000, 23, 955-965.	5.7	36
116	The influence of depth-to-groundwater on structure and productivity of Eucalyptus woodlands. Australian Journal of Botany, 2014, 62, 428.	0.6	36
117	Bridging Thermal Infrared Sensing and Physicallyâ€Based Evapotranspiration Modeling: From Theoretical Implementation to Validation Across an Aridity Gradient in Australian Ecosystems. Water Resources Research, 2018, 54, 3409-3435.	4.2	36
118	Field comparison of methods for estimating groundwater discharge by evaporation and evapotranspiration in an arid-zone playa. Journal of Hydrology, 2015, 527, 1073-1083.	5.4	35
119	Is Climate Change a Possible Explanation for Woody Thickening in Arid and Semi-Arid Regions?. Research Letters in Ecology, 2007, 2007, 1-5.	0.6	34
120	Disentangling Climate and LAI Effects on Seasonal Variability in Water Use Efficiency Across Terrestrial Ecosystems in China. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2429-2443.	3.0	34
121	TERN, Australia's land observatory: addressing the global challenge of forecasting ecosystem responses to climate variability and change. Environmental Research Letters, 2019, 14, 095004.	5.2	34
122	Functional Traits and Water Transport Strategies in Lowland Tropical Rainforest Trees. PLoS ONE, 2015, 10, e0130799.	2.5	34
123	Variation in bulkâ€leaf ¹³ C discrimination, leaf traits and waterâ€use efficiency–trait relationships along a continentalâ€scale climate gradient in Australia. Global Change Biology, 2018, 24, 1186-1200.	9.5	33
124	Seasonal Changes in Leaf Water Characteristics of Eucalyptus tetrodonta and Terminalia ferdinandiana Saplings in a Northern Australian Savanna. Australian Journal of Botany, 1999, 47, 587.	0.6	32
125	Soil organic carbon content at a range of north Australian tropical savannas with contrasting site histories. Plant and Soil, 2005, 268, 161-171.	3.7	31
126	Reconciling the optimal and empirical approaches to modelling stomatal conductance. Global Change Biology, 2012, 18, 3476-3476.	9.5	31

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127	Morphological and moisture availability controls of the leaf areaâ€toâ€sapwood area ratio: analysis of measurements on <scp>A</scp> ustralian trees. Ecology and Evolution, 2015, 5, 1263-1270.	1.9	31
128	A rate equation model of stomatal responses to vapour pressure deficit and drought. , 2002, 2, 8.		30
129	Applying a SPA model to examine the impact of climate change on GPP of open woodlands and the potential for woody thickening. Ecohydrology, 2011, 4, 379-393.	2.4	30
130	Modelling vegetation water-use and groundwater recharge as affected by climate variability in an arid-zone Acacia savanna woodland. Journal of Hydrology, 2014, 519, 1084-1096.	5.4	30
131	Impacts of elevated CO 2 , climate change and their interactions on water budgets in four different catchments in Australia. Journal of Hydrology, 2014, 519, 1350-1361.	5.4	30
132	MODIS vegetation products as proxies of photosynthetic potential along a gradient of meteorologically and biologically driven ecosystem productivity. Biogeosciences, 2016, 13, 5587-5608.	3.3	30
133	Internal Structure and Hydraulic Conductivity of Basidiomycete Translocating Organs. Journal of Experimental Botany, 1985, 36, 1110-1116.	4.8	29
134	The Water Relations of Allosyncarpia ternata (Myrtaceae) at Contrasting Sites in the Monsoonal Tropics of Northern Australia. Australian Journal of Botany, 1997, 45, 259.	0.6	29
135	Intra-specific variation in leaf attributes of four savanna tree species across a rainfall gradient in tropical Australia. Australian Journal of Botany, 2005, 53, 323.	0.6	28
136	Root water compensation sustains transpiration rates in an Australian woodland. Advances in Water Resources, 2014, 74, 91-101.	3.8	28
137	Photosynthetic and stomatal conductance responses of Norway spruce and beech to ozone, acid mist and frost—a conceptual model. Environmental Pollution, 1991, 72, 23-44.	7.5	27
138	A comparison of tree water use in two contiguous vegetation communities of the seasonally dry tropics of northern Australia: the importance of site water budget to tree hydraulics. Australian Journal of Botany, 2007, 55, 700.	0.6	27
139	Intrinsic climate dependency of ecosystem light and water-use-efficiencies across Australian biomes. Environmental Research Letters, 2014, 9, 104002.	5.2	27
140	Stomatal Behaviour and Water Relations of ChilledPhaseolus vulgarisL. andPisum sativumL Journal of Experimental Botany, 1983, 34, 434-441.	4.8	26
141	Tree responses to CO2 enrichment: CO2 and temperature interactions, biomass allocation and stand-scale modeling. Tree Physiology, 1996, 16, 43-47.	3.1	26
142	The Impact of CO2 Enrichment on Water Relations in Maranthes corymbosa and Eucalyptus tetrodonta. Australian Journal of Botany, 1995, 43, 273.	0.6	25
143	Groundwater Dependent Ecosystems: Classification, Identification Techniques and Threats. , 2016, , 313-346.		25
144	Embolism recovery strategies and nocturnal water loss across species influenced by biogeographic origin. Ecology and Evolution, 2019, 9, 5348-5361.	1.9	25

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145	A Model for the Interaction of Low Temperature, ABA, IAA, and CO2in the Control of Stomatal Behaviour. Journal of Experimental Botany, 1984, 35, 91-98.	4.8	24
146	Effectiveness of time of sowing and cultivar choice for managing climate change: wheat crop phenology and water use efficiency. International Journal of Biometeorology, 2018, 62, 1049-1061.	3.0	24
147	Determination of Water, Solute and Turgor Potentials of Mycelium of Various Basidiomycete Fungi causing Wood Decay. Journal of Experimental Botany, 1984, 35, 1782-1786.	4.8	23
148	Water flux through mycelium of Serpula lacrimans. Transactions of the British Mycological Society, 1985, 84, 601-608.	0.6	23
149	Postharvest water relationships and tissue browning of rambutan fruit. Scientia Horticulturae, 1996, 66, 201-208.	3.6	23
150	Zooplankton in highly regulated rivers: Changing with water environment. Ecological Engineering, 2013, 58, 323-334.	3.6	23
151	Xylem traits and water-use efficiency of woody species co-occurring in the Ti Tree Basin arid zone. Trees - Structure and Function, 2016, 30, 295-303.	1.9	23
152	Aerodynamic Resistance and Penman–Monteith Evapotranspiration over a Seasonally Two-Layered Canopy in Semiarid Central Australia. Journal of Hydrometeorology, 2013, 14, 1562-1570.	1.9	22
153	Storage of organic carbon in the soils of Mexican temperate forests. Forest Ecology and Management, 2019, 446, 115-125.	3.2	22
154	The influence of abscisic acid on the water relations of leaf epidermal cells of Rhoeo discolor. Plant Science Letters, 1983, 31, 253-259.	1.8	20
155	A Pressure-Volume Analysis of Solanum melongena Leaves. Journal of Experimental Botany, 1990, 41, 661-668.	4.8	20
156	Optimization theory of stomatal behaviour: I. A critical evaluation of five methods of calculation. Journal of Experimental Botany, 1999, 50, 385-392.	4.8	20
157	Evaluating Global Land Surface Models in CMIP5: Analysis of Ecosystem Water- and Light-Use Efficiencies and Rainfall Partitioning. Journal of Climate, 2018, 31, 2995-3008.	3.2	20
158	An assessment of the water budget for contrasting vegetation covers associated with waste management. Hydrological Processes, 2010, 24, 1149-1158.	2.6	19
159	Structural and hydrological alterations of soil due to addition of coal fly ash. Journal of Soils and Sediments, 2011, 11, 423-431.	3.0	19
160	Mulga, a major tropical dry open forest of Australia: recent insights to carbon and water fluxes. Environmental Research Letters, 2016, 11, 125011.	5.2	19
161	Spatiotemporal partitioning of savanna plant functional type productivity along NATT. Remote Sensing of Environment, 2020, 246, 111855.	11.0	19
162	Co-ordination among leaf water relations and xylem vulnerability to embolism of <i>Eucalyptus</i> trees growing along a depth-to-groundwater gradient. Tree Physiology, 2015, 35, 732-743.	3.1	18

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163	Estimation of latent heat flux over savannah vegetation across the North Australian Tropical Transect from multiple sensors and global meteorological data. Agricultural and Forest Meteorology, 2017, 232, 689-703.	4.8	18
164	Growth and Elemental Accumulation by Canola on Soil Amended with Coal Fly Ash. Journal of Environmental Quality, 2008, 37, 1263-1270.	2.0	17
165	Modelling Seasonal and Inter-annual Variations in Carbon and Water Fluxes in an Arid-Zone Acacia Savanna Woodland, 1981–2012. Ecosystems, 2016, 19, 625-644.	3.4	17
166	Carbon and water fluxes in two adjacent Australian semi-arid ecosystems. Agricultural and Forest Meteorology, 2020, 281, 107853.	4.8	17
167	Stomatal behaviour and leaf water potential of chilled and water-stressed Solanum melongena, as influenced by growth history. Plant, Cell and Environment, 1987, 10, 649-654.	5.7	16
168	Hydraulic architecture and water relations of several species at diverse sites around Sydney. Australian Journal of Botany, 2004, 52, 509.	0.6	16
169	Diverse sensitivity of winter crops over the growing season to climate and land surface temperature across the rainfed cropland-belt of eastern Australia. Agriculture, Ecosystems and Environment, 2018, 254, 99-110.	5.3	16
170	The Responses of Leaf Water Potential and Leaf Diffusive Resistance to Abscisic Acid, Water Stress and Low Temperature inHibiscus esculentus: The Effect of Water Stress and ABA Pre-Treatments. Journal of Experimental Botany, 1986, 37, 1854-1862.	4.8	15
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