

Erik J Veneklaas

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119
papers

11,668
citations

40
h-index

107
g-index

123
ext. papers

13,916
ext. citations

5.4
avg, IF

5.73
L-index

#	Paper	IF	Citations
119	The worldwide leaf economics spectrum. <i>Nature</i> , 2004 , 428, 821-7	50.4	4915
118	Root structure and functioning for efficient acquisition of phosphorus: Matching morphological and physiological traits. <i>Annals of Botany</i> , 2006 , 98, 693-713	4.1	800
117	Plant and microbial strategies to improve the phosphorus efficiency of agriculture. <i>Plant and Soil</i> , 2011 , 349, 121-156	4.2	532
116	Opportunities for improving phosphorus-use efficiency in crop plants. <i>New Phytologist</i> , 2012 , 195, 306-320	3.8	479
115	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
114	Strategies and agronomic interventions to improve the phosphorus-use efficiency of farming systems. <i>Plant and Soil</i> , 2011 , 349, 89-120	4.2	262
113	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244
112	Chickpea and white lupin rhizosphere carboxylates vary with soil properties and enhance phosphorus uptake. <i>Plant and Soil</i> , 2003 , 248, 187-197	4.2	209
111	Update on phosphorus nutrition in Proteaceae. Phosphorus nutrition of proteaceae in severely phosphorus-impooverished soils: are there lessons to be learned for future crops?. <i>Plant Physiology</i> , 2011 , 156, 1058-66	6.6	146
110	Carboxylate release of wheat, canola and 11 grain legume species as affected by phosphorus status. <i>Plant and Soil</i> , 2006 , 288, 127-139	4.2	145
109	Distribution of Carboxylates and Acid Phosphatase and Depletion of Different Phosphorus Fractions in the Rhizosphere of a Cereal and Three Grain Legumes. <i>Plant and Soil</i> , 2006 , 281, 109-120	4.2	142
108	Phosphorus benefits of different legume crops to subsequent wheat grown in different soils of Western Australia. <i>Plant and Soil</i> , 2005 , 271, 175-187	4.2	139
107	Carboxylate composition of root exudates does not relate consistently to a crop species' ability to use phosphorus from aluminium, iron or calcium phosphate sources. <i>New Phytologist</i> , 2007 , 173, 181-90	9.8	136
106	Nature and nurture: the importance of seed phosphorus content. <i>Plant and Soil</i> , 2012 , 357, 1-8	4.2	129
105	Influence of leaf dry mass per area, CO ₂ , and irradiance on mesophyll conductance in sclerophylls. <i>Journal of Experimental Botany</i> , 2009 , 60, 2303-14	7	129
104	Banksia species (Proteaceae) from severely phosphorus-impooverished soils exhibit extreme efficiency in the use and re-mobilization of phosphorus. <i>Plant, Cell and Environment</i> , 2007 , 30, 1557-65	8.4	115
103	Physiological and ecological significance of biomineralization in plants. <i>Trends in Plant Science</i> , 2014 , 19, 166-74	13.1	111

102	The pattern of carboxylate exudation in <i>Banksia grandis</i> (Proteaceae) is affected by the form of phosphate added to the soil. <i>Plant and Soil</i> , 2002 , 238, 111-122	4.2	109
101	Leaf water relations during summer water deficit: differential responses in turgor maintenance and variation in leaf structure among different plant communities in south-western Australia. <i>Plant, Cell and Environment</i> , 2008 , 31, 1791-802	8.4	104
100	Short Communication: Leaf trait relationships in Australian plant species. <i>Functional Plant Biology</i> , 2004 , 31, 551-558	2.7	103
99	Optimal allocation of leaf epidermal area for gas exchange. <i>New Phytologist</i> , 2016 , 210, 1219-28	9.8	88
98	Low levels of ribosomal RNA partly account for the very high photosynthetic phosphorus-use efficiency of Proteaceae species. <i>Plant, Cell and Environment</i> , 2014 , 37, 1276-98	8.4	87
97	Litterfall and nutrient fluxes in two montane tropical rain forests, Colombia. <i>Journal of Tropical Ecology</i> , 1991 , 7, 319-336	1.3	81
96	Phosphorus uptake by grain legumes and subsequently grown wheat at different levels of residual phosphorus fertiliser. <i>Australian Journal of Agricultural Research</i> , 2005 , 56, 1041		74
95	Altered vegetation structure and composition linked to fire frequency and plant invasion in a biodiverse woodland. <i>Biological Conservation</i> , 2009 , 142, 2270-2281	6.2	70
94	Variable tolerance of wetland tree species to combined salinity and waterlogging is related to regulation of ion uptake and production of organic solutes. <i>New Phytologist</i> , 2006 , 169, 123-33	9.8	64
93	Does cluster-root activity benefit nutrient uptake and growth of co-existing species?. <i>Oecologia</i> , 2014 , 174, 23-31	2.9	62
92	Using multiple trait associations to define hydraulic functional types in plant communities of south-western Australia. <i>Oecologia</i> , 2008 , 158, 385-97	2.9	62
91	<i>Triticum aestivum</i> shows a greater biomass response to a supply of aluminium phosphate than <i>Lupinus albus</i> , despite releasing fewer carboxylates into the rhizosphere. <i>New Phytologist</i> , 2006 , 169, 515-24	9.8	62
90	Carboxylate concentrations in the rhizosphere of lateral roots of chickpea (<i>Cicer arietinum</i>) increase during plant development, but are not correlated with phosphorus status of soil or plants. <i>New Phytologist</i> , 2004 , 162, 745-753	9.8	59
89	Stomatal crypts may facilitate diffusion of CO ₂ to adaxial mesophyll cells in thick sclerophylls. <i>Plant, Cell and Environment</i> , 2009 , 32, 1596-611	8.4	58
88	Photosynthesis at an extreme end of the leaf trait spectrum: how does it relate to high leaf dry mass per area and associated structural parameters?. <i>Journal of Experimental Botany</i> , 2010 , 61, 3015-28 ⁷		54
87	Soil seed bank compositional change constrains biodiversity in an invaded species-rich woodland. <i>Biological Conservation</i> , 2009 , 142, 256-269	6.2	54
86	Stomatal crypts have small effects on transpiration: a numerical model analysis. <i>Plant Physiology</i> , 2009 , 151, 2018-27	6.6	51
85	Enhanced soil and leaf nutrient status of a Western Australian <i>Banksia</i> woodland community invaded by <i>Ehrharta calycina</i> and <i>Pelargonium capitatum</i> . <i>Plant and Soil</i> , 2006 , 284, 253-264	4.2	51

84	Morphologies and elemental compositions of calcium crystals in phyllodes and branchlets of <i>Acacia robeorum</i> (Leguminosae: Mimosoideae). <i>Annals of Botany</i> , 2012 , 109, 887-96	4.1	50
83	Complementary plant nutrient-acquisition strategies promote growth of neighbour species. <i>Functional Ecology</i> , 2014 , 28, 819-828	5.6	48
82	Tropical cyclones and the ecohydrology of Australia's recent continental-scale drought. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	48
81	Relative growth rate and biomass allocation in 20 <i>Aegilops</i> (Poaceae) species. <i>New Phytologist</i> , 1998 , 140, 425-437	9.8	41
80	Effects of phosphorus supply on growth, phosphate concentration and cluster-root formation in three <i>Lupinus</i> species. <i>Annals of Botany</i> , 2010 , 105, 365-74	4.1	40
79	Water relations and mineral nutrition of closely related woody plant species on desert dunes and interdunes. <i>Australian Journal of Botany</i> , 2008 , 56, 27	1.2	40
78	Seasonal patterns in water use and leaf turnover of different plant functional types in a species-rich woodland, south-western Australia. <i>Plant and Soil</i> , 2003 , 257, 295-304	4.2	40
77	Plant phosphorus status has a limited influence on the concentration of phosphorus-mobilising carboxylates in the rhizosphere of chickpea. <i>Functional Plant Biology</i> , 2005 , 32, 153-159	2.7	40
76	Inbreeding and outbreeding depression in <i>Stylidium hispidum</i> : implications for mixing seed sources for ecological restoration. <i>Ecology and Evolution</i> , 2012 , 2, 2262-73	2.8	39
75	Relative growth rate and biomass allocation in 20 <i>Aegilops</i> (Poaceae) species. <i>New Phytologist</i> , 1998 , 140, 425-437	9.8	39
74	Two sides to every leaf: water and CO transport in hypostomatous and amphistomatous leaves. <i>New Phytologist</i> , 2019 , 222, 1179-1187	9.8	37
73	Spatial analysis of fine root distribution on a recently constructed ecosystem in a water-limited environment. <i>Plant and Soil</i> , 2011 , 344, 255-272	4.2	36
72	Rhizosphere carboxylate concentrations of chickpea are affected by genotype and soil type. <i>Plant and Soil</i> , 2004 , 261, 1-10	4.2	35
71	Are leaf functional traits invariant with plant size and what is invariance anyway?. <i>Functional Ecology</i> , 2014 , 28, 1330-1343	5.6	34
70	Gallery forest types and their environmental correlates in a Colombian savanna landscape. <i>Ecography</i> , 2005 , 28, 236-252	6.5	33
69	Species distribution and crown decline are associated with contrasting water relations in four common sympatric eucalypt species in southwestern Australia. <i>Plant and Soil</i> , 2013 , 364, 409-423	4.2	31
68	Apparent Overinvestment in Leaf Venation Relaxes Leaf Morphological Constraints on Photosynthesis in Arid Habitats. <i>Plant Physiology</i> , 2016 , 172, 2286-2299	6.6	27
67	Does phenotypic plasticity in carboxylate exudation differ among rare and widespread <i>Banksia</i> species (Proteaceae)?. <i>New Phytologist</i> , 2007 , 173, 592-599	9.8	27

66	Yield and water use of wheat (<i>Triticum aestivum</i>) in a Mediterranean environment: Cultivar differences and sowing density effects. <i>Plant and Soil</i> , 1996 , 181, 251-262	4.2	26
65	Root Architecture of Jarrah (<i>Eucalyptus marginata</i>) Trees in Relation to Post-Mining Deep Ripping in Western Australia. <i>Restoration Ecology</i> , 2007 , 15, S65-S73	3.1	25
64	Precipitation of calcium, magnesium, strontium and barium in tissues of four Acacia species (Leguminosae: Mimosoideae). <i>PLoS ONE</i> , 2012 , 7, e41563	3.7	24
63	Effects of global environmental change on carbon partitioning in vegetative plants of <i>Triticum aestivum</i> and closely related <i>Aegilops</i> species. <i>Global Change Biology</i> , 1995 , 1, 397-406	11.4	23
62	Relative growth rate, biomass allocation pattern and water use efficiency of three wheat cultivars during early ontogeny as dependent on water availability. <i>Physiologia Plantarum</i> , 1996 , 98, 493-504	4.6	23
61	Leaf manganese concentrations as a tool to assess belowground plant functioning in phosphorus-impooverished environments. <i>Plant and Soil</i> , 2021 , 461, 43-61	4.2	23
60	Water relations and mineral nutrition of <i>Triodia</i> grasses on desert dunes and interdunes. <i>Australian Journal of Botany</i> , 2008 , 56, 408	1.2	22
59	Dinitrogen-fixing Acacia species from phosphorus-impooverished soils resorb leaf phosphorus efficiently. <i>Plant, Cell and Environment</i> , 2011 , 34, 2060-70	8.4	21
58	Tree host-pathogen interactions as influenced by drought timing: linking physiological performance, biochemical defence and disease severity. <i>Tree Physiology</i> , 2019 , 39, 6-18	4.2	20
57	The fate of hydraulically redistributed water in a semi-arid zone eucalyptus species. <i>Tree Physiology</i> , 2011 , 31, 649-58	4.2	19
56	Is nitrogen transfer among plants enhanced by contrasting nutrient-acquisition strategies?. <i>Plant, Cell and Environment</i> , 2015 , 38, 50-60	8.4	18
55	Contrasting physiological responses of two co-occurring eucalypts to seasonal drought at restored bauxite mine sites. <i>Tree Physiology</i> , 2011 , 31, 1052-66	4.2	18
54	Contrasting water relations of three coastal tree species with different exposure to salinity. <i>Physiologia Plantarum</i> , 2006 , 127, 360-373	4.6	18
53	Dynamics of non-structural carbohydrates in two <i>Ficus</i> species after transfer to deep shade. <i>Environmental and Experimental Botany</i> , 2005 , 54, 148-154	5.9	18
52	Transpiration and water relations of evergreen shrub species on an artificial landform for mine waste storage versus an adjacent natural site in semi-arid Western Australia. <i>Ecohydrology</i> , 2014 , 7, 965-981	3.5	17
51	A climate change context for the decline of a foundation tree species in south-western Australia: insights from phylogeography and species distribution modelling. <i>Annals of Botany</i> , 2015 , 116, 941-52	4.1	16
50	Spatio-temporal water dynamics in mature <i>Banksia menziesii</i> trees during drought. <i>Physiologia Plantarum</i> , 2014 , 152, 301-15	4.6	16
49	Osmotic potential at full turgor: an easily measurable trait to help breeders select for drought tolerance in wheat. <i>Plant Breeding</i> , 2016 , 135, 279-285	2.4	16

48	Preferential outcrossing in <i>Banksia ilicifolia</i> (Proteaceae). <i>Australian Journal of Botany</i> , 2005 , 53, 163	1.2	15
47	A Critical Evaluation of Interventions to Progress Transdisciplinary Research. <i>Society and Natural Resources</i> , 2015 , 28, 670-681	2.4	13
46	Drying the surface soil reduces the nitrogen content of faba bean (<i>Vicia faba</i> L.) through a reduction in nitrogen fixation. <i>Plant and Soil</i> , 2011 , 339, 351-362	4.2	13
45	Changes in water relations for <i>Acacia ancistrocarpa</i> on natural and mine-rehabilitation sites in response to an experimental wetting pulse in the Great Sandy Desert. <i>Plant and Soil</i> , 2010 , 326, 75-96	4.2	13
44	Salinity tolerances of three succulent halophytes (<i>Tecticornia</i> spp.) differentially distributed along a salinity gradient. <i>Functional Plant Biology</i> , 2016 , 43, 739-750	2.7	12
43	Links between soil texture and root architecture of <i>Eucalyptus</i> species may limit distribution ranges under future climates. <i>Plant and Soil</i> , 2016 , 403, 217-229	4.2	12
42	Transpiration and plant water relations of evergreen woody vegetation on a recently constructed artificial ecosystem under seasonally dry conditions in Western Australia. <i>Hydrological Processes</i> , 2012 , 26, 3281-3292	3.3	12
41	Isometric partitioning of hydraulic conductance between leaves and stems: balancing safety and efficiency in different growth forms and habitats. <i>Plant, Cell and Environment</i> , 2015 , 38, 1628-36	8.4	11
40	Relative growth rate, biomass allocation pattern and water use efficiency of three wheat cultivars during early ontogeny as dependent on water availability. <i>Physiologia Plantarum</i> , 1996 , 98, 493-504	4.6	11
39	Root-zone hypoxia reduces growth of the tropical forage grass <i>Urochloa humidicola</i> in high-nutrient but not low-nutrient conditions. <i>Annals of Botany</i> , 2019 , 124, 1019-1032	4.1	10
38	Drought tolerances of three stem-succulent halophyte species of an inland semiarid salt lake system. <i>Functional Plant Biology</i> , 2014 , 41, 1230-1238	2.7	10
37	Community patterns and environmental drivers in hyper-diverse kwongan scrub vegetation of Western Australia. <i>Applied Vegetation Science</i> , 2018 , 21, 694-722	3.3	10
36	Hydraulic redistribution: limitations for plants in saline soils. <i>Plant, Cell and Environment</i> , 2017 , 40, 2437-2446	8.4	8
35	Arid-zone <i>Acacia</i> species can access poorly soluble iron phosphate but show limited growth response. <i>Plant and Soil</i> , 2012 , 358, 119-130	4.2	8
34	Shallow environmental gradients put inland species at risk: Insights and implications from predicting future distributions of <i>Eucalyptus</i> species in South Western Australia. <i>Austral Ecology</i> , 2015 , 40, 923-932	1.5	7
33	Spatial analysis of fine root distribution on a recently constructed ecosystem in a water-limited environment. <i>Plant and Soil</i> , 2011 , 348, 471-489	4.2	7
32	Rhizosphere processes do not explain variation in P acquisition from sparingly soluble forms among <i>Lupinus albus</i> accessions. <i>Australian Journal of Agricultural Research</i> , 2008 , 59, 616		7
31	Contrasting submergence tolerance in two species of stem-succulent halophytes is not determined by differences in stem internal oxygen dynamics. <i>Annals of Botany</i> , 2015 , 115, 409-18	4.1	6

30	A threatened ecological community: research advances and priorities for Banksia woodlands. <i>Australian Journal of Botany</i> , 2021 , 69, 53	1.2	6
29	AusTraits, a curated plant trait database for the Australian flora. <i>Scientific Data</i> , 2021 , 8, 254	8.2	6
28	Shallow soils negatively affect water relations and photosynthesis in two semi-arid Eucalyptus species. <i>Environmental and Experimental Botany</i> , 2018 , 155, 239-250	5.9	5
27	Genetic delineation of local provenance defines seed collection zones along a climate gradient. <i>AoB PLANTS</i> , 2016 , 8,	2.9	5
26	The potential for phosphorus benefits through root placement in the rhizosphere of phosphorus-mobilising neighbours. <i>Oecologia</i> , 2020 , 193, 843-855	2.9	4
25	Root positioning and trait shifts in <i>Hibbertia racemosa</i> as dependent on its neighbour's nutrient-acquisition strategy. <i>Plant, Cell and Environment</i> , 2021 , 44, 1257-1267	8.4	4
24	Corrigendum to: A threatened ecological community: research advances and priorities for Banksia woodlands. <i>Australian Journal of Botany</i> , 2021 , 69, 111	1.2	4
23	The barrier to radial oxygen loss impedes the apoplastic entry of iron into the roots of <i>Urochloa humidicola</i> . <i>Journal of Experimental Botany</i> , 2021 , 72, 3279-3293	7	4
22	Individual tree growth in jarrah (<i>Eucalyptus marginata</i>) forest is explained by size and distance of neighbouring trees in thinned and non-thinned plots. <i>Forest Ecology and Management</i> , 2021 , 494, 119364	2.9	4
21	Trait-based formal definition of plant functional types and functional communities in the multi-species and multi-traits context. <i>Ecological Complexity</i> , 2019 , 40, 100787	2.6	3
20	Composition and ecological drivers of the kwongan scrub and woodlands in the northern Swan Coastal Plain, Western Australia. <i>Austral Ecology</i> , 2019 , 44, 906-916	1.5	3
19	Root dynamics and survival in a nutrient-poor and species-rich woodland under a drying climate. <i>Plant and Soil</i> , 2018 , 424, 91-102	4.2	3
18	Informing arid region mine-site restoration through comparative ecophysiology of <i>Acacia</i> species under drought. <i>Journal of Arid Environments</i> , 2016 , 133, 73-84	2.5	3
17	Water availability drives the effectiveness of inorganic amendments to increase plant growth and substrate quality. <i>Catena</i> , 2019 , 182, 104116	5.8	3
16	Microbial inoculation to improve plant performance in mine-waste substrates: A test using pigeon pea (<i>Cajanus cajan</i>). <i>Land Degradation and Development</i> ,	4.4	3
15	Interactions among cluster-root investment, leaf phosphorus concentration, and relative growth rate in two <i>Lupinus</i> species. <i>American Journal of Botany</i> , 2015 , 102, 1529-37	2.7	2
14	Spectral detection of stress-related pigments in salt-lake succulent halophytic shrubs. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 52, 457-463	7.3	2
13	Phosphate fertiliser alters carboxylates and bacterial communities in sweet potato (<i>Ipomoea batatas</i> (L.) Lam.) rhizosheaths. <i>Plant and Soil</i> , 2020 , 454, 245-260	4.2	2

12	Root length is proxy for high-throughput screening of waterlogging tolerance in Urochloa spp. grasses. <i>Functional Plant Biology</i> , 2021 , 48, 411-421	2.7	2
11	Investigating the effect of neighbour competition on individual tree growth in thinned and unthinned eucalypt forests. <i>Forest Ecology and Management</i> , 2021 , 499, 119637	3.9	2
10	Population Size Effects on Progeny Performance in <i>Banksia ilicifolia</i> R. Br. (Proteaceae). <i>HAYATI Journal of Biosciences</i> , 2009 , 16, 43-48	1.2	1
9	Potassium Fertilisation Is Required to Sustain Cassava Yield and Soil Fertility. <i>Agronomy</i> , 2020 , 10, 1103	3.6	1
8	Patterns and drivers of structure, diversity, and composition in species-rich shrublands restored after mining. <i>Restoration Ecology</i> , 2021 , 29, e13360	3.1	1
7	No evidence of regulation in root-mediated iron reduction in two Strategy I cluster-rooted <i>Banksia</i> species (Proteaceae). <i>Plant and Soil</i> , 2021 , 461, 203-218	4.2	1
6	Restoration ecophysiology: an ecophysiological approach to improve restoration strategies and outcomes in severely disturbed landscapes. <i>Restoration Ecology</i> , e13571	3.1	1
5	Stockpiling disrupts the biological integrity of topsoil for ecological restoration. <i>Plant and Soil</i> , 1	4.2	0
4	Chickpea and white lupin rhizosphere carboxylates vary with soil properties and enhance phosphorus uptake 2003 , 187-197		0
3	Native plant diversity is a stronger driver for soil quality than inorganic amendments in semi-arid post-mining rehabilitation. <i>Geoderma</i> , 2021 , 394, 115001	6.7	0
2	How does spatial micro-environmental heterogeneity influence seedling recruitment in ironstone outcrops?. <i>Journal of Vegetation Science</i> , 2021 , 32, e13010	3.1	
1	Thermal imagery of woodland tree canopies provides new insights into drought-induced tree mortality.. <i>Science of the Total Environment</i> , 2022 , 155395	10.2	