

Walter's two-layer hypothesis revisited: back to the roots

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Revisiting the Two-Layer Hypothesis: Coexistence of Alternative Functional Rooting Strategies in Savannas. PLoS ONE, 2013, 8, e69625.	1.1	56
2	Combined Spatial and Temporal Effects of Environmental Controls on Long-Term Monthly NDVI in the Southern Africa Savanna. Remote Sensing, 2013, 5, 6513-6538.	1.8	49
3	A century of woody plant encroachment in the dry Kimberley savanna of South Africa. African Journal of Range and Forage Science, 2014, 31, 107-121.	0.6	65
4	Desert shrub responses to experimental modification of precipitation seasonality and soil depth: relationship to the two-layer hypothesis and ecohydrological niche. Journal of Ecology, 2014, 102, 989-997.	1.9	60
5	A complex network of interactions controls coexistence and relative abundances in Patagonian grass-shrub steppes. Journal of Ecology, 2014, 102, 776-788.	1.9	20
6	A Multiscale, Hierarchical Model of Pulse Dynamics in Arid-Land Ecosystems. Annual Review of Ecology, Evolution, and Systematics, 2014, 45, 397-419.	3.8	153
8	Fine root distribution and belowground interactions in an alley silvopasture system in northern China. Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry, 2014, 38, 644-651.	0.8	5
9	Remote sensing provides a progressive record of vegetation change in northern KwaZulu-Natal, South Africa, from 1944 to 2005. International Journal of Remote Sensing, 2014, 35, 904-926.	1.3	8
10	Cerrado vegetation and global change: the role of functional types, resource availability and disturbance in regulating plant community responses to rising CO2 levels and climate warming. Theoretical and Experimental Plant Physiology, 2014, 26, 19-38.	1.1	91
11	Vegetation change in northern KwaZulu-Natal since the Anglo-Zulu War of 1879: local or global drivers?. African Journal of Range and Forage Science, 2014, 31, 89-105.	0.6	18
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14	Do woody and herbaceous species compete for soil water across topographic gradients? Evidence for niche partitioning in a Neotropical savanna. South African Journal of Botany, 2014, 91, 14-18.	1.2	39
15	Terrestrial hydrological controls on land surface phenology of African savannas and woodlands. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1652-1669.	1.3	117
16	Groundwater in the earth's critical zone: Relevance to large-scale patterns and processes. Water Resources Research, 2015, 51, 3052-3069.	1.7	164
17	Edaphic, structural and physiological contrasts across Amazon Basin forest-savanna ecotones suggest a role for potassium as a key modulator of tropical woody vegetation structure and function. Biogeosciences, 2015, 12, 6529-6571.	1.3	55
18	Forests, savannas, and grasslands: bridging the knowledge gap between ecology and Dynamic Global Vegetation Models. Biogeosciences, 2015, 12, 1833-1848.	1.3	88
19	Modelling Water Uptake Provides a New Perspective on Grass and Tree Coexistence. PLoS ONE, 2015, 10, e0144300.	1.1	39

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20	Tree-grass competition for soil water in arid and semiarid savannas: The role of rainfall intermittency. <i>Water Resources Research</i> , 2015, 51, 169-181.	1.7	42
21	Transpiration dynamics support resource partitioning in African savanna trees and grasses. <i>Ecology</i> , 2015, 96, 1466-1472.	1.5	23
22	Facilitation in drylands: Modeling a neglected driver of savanna dynamics. <i>Ecological Modelling</i> , 2015, 304, 11-21.	1.2	16
23	Tree-grass competition varies across select savanna tree species: a potential role for rooting depth. <i>Plant Ecology</i> , 2015, 216, 577-588.	0.7	20
24	Post-ranching tree-grass interactions in secondary <i>Acacia zanzibarica</i> woodlands in coastal Tanzania – an experimental study. <i>Applied Vegetation Science</i> , 2015, 18, 297-310.	0.9	3
25	Impacts of alien plant invasion on native plant communities are mediated by functional identity of resident species, not resource availability. <i>Oikos</i> , 2015, 124, 298-306.	1.2	22
26	Hydraulic lift as a determinant of tree-grass coexistence on savannas. <i>New Phytologist</i> , 2015, 207, 1038-1051.	3.5	63
27	Challenging the maximum rooting depth paradigm in grasslands and savannas. <i>Functional Ecology</i> , 2015, 29, 739-745.	1.7	61
28	Spatial heterogeneity of fine root biomass and soil carbon in a California oak savanna illuminates plant functional strategy across periods of high and low resource supply. <i>Ecohydrology</i> , 2015, 8, 294-308.	1.1	11
29	Coupling carbon allocation with leaf and root phenology predicts tree-grass partitioning along a savanna rainfall gradient. <i>Biogeosciences</i> , 2016, 13, 761-779.	1.3	32
30	Bush Encroachment Mapping for Africa: Multi-Scale Analysis with Remote Sensing and GIS. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4
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32	Ecohydrological changes in semiarid ecosystems transformed from shrubland to buffelgrass savanna. <i>Ecohydrology</i> , 2016, 9, 1663-1674.	1.1	18
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35	Buffering the savanna: fire regimes and disequilibrium ecology in West Africa. <i>Plant Ecology</i> , 2016, 217, 583-596.	0.7	20
36	The impacts of isolation, canopy size, and environmental conditions on patterns of understory species richness in an oak savanna. <i>Plant Ecology</i> , 2016, 217, 825-841.	0.7	2
37	Seasonality of hydraulic redistribution by trees to grasses and changes in their water-source use that change tree-grass interactions. <i>Ecohydrology</i> , 2016, 9, 218-228.	1.1	70

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39	Introducing a shrub species in a degraded steppe shifts fine root dynamics and soil organic carbon accumulations, in northwest China. <i>Ecological Engineering</i> , 2017, 100, 277-285.	1.6	13
40	Water and nitrogen uptake are better associated with resource availability than root biomass. <i>Ecosphere</i> , 2017, 8, e01738.	1.0	59
41	Plants anticipating rain “ a challenge for modelling climate change impacts. <i>New Phytologist</i> , 2017, 213, 475-477.	3.5	1
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44	Modelling tree-grass coexistence in water-limited ecosystems. <i>Ecological Modelling</i> , 2017, 360, 387-398.	1.2	6
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47	Reviews and syntheses: on the roles trees play in building and plumbing the critical zone. <i>Biogeosciences</i> , 2017, 14, 5115-5142.	1.3	130
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49	Effect of Climoedaphic Heterogeneity on Woody Plant Dominance in the Argentine Caldenal Region. <i>Rangeland Ecology and Management</i> , 2018, 71, 409-416.	1.1	4
50	Strong competitive effects of African savanna C4 grasses on tree seedlings do not support rooting differentiation. <i>Journal of Tropical Ecology</i> , 2018, 34, 65-73.	0.5	3
51	Bacterial diversity is positively correlated with soil heterogeneity. <i>Ecosphere</i> , 2018, 9, e02079.	1.0	68
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57	Large shrubs increase soil nutrients in a semi-arid savanna. <i>Geoderma</i> , 2018, 310, 153-162.	2.3	65
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62	Variability in fire-induced change to vegetation physiognomy and biomass in semi-arid savanna. <i>Ecosphere</i> , 2018, 9, e02514.	1.0	23
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66	Above- and below-ground allocation and functional trait response to soil water inputs and drying rates of two common savanna grasses. <i>Journal of Arid Environments</i> , 2018, 157, 1-12.	1.2	3
67	Density-dependent spatial patterning of woody plants differs between a semi-arid and a mesic savanna in South Africa. <i>Journal of Arid Environments</i> , 2018, 157, 103-112.	1.2	12
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71	Using Near-Infrared-Enabled Digital Repeat Photography to Track Structural and Physiological Phenology in Mediterranean Tree–Grass Ecosystems. <i>Remote Sensing</i> , 2018, 10, 1293.	1.8	64
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73	Soil properties and climate mediate the effects of biotic interactions on the performance of a woody range expander. <i>Ecosphere</i> , 2018, 9, e02186.	1.0	5

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84	Using water isotopes to analyze water uptake during vegetation succession on abandoned cropland on the Loess Plateau, China. <i>Catena</i> , 2019, 181, 104095.	2.2	26
85	Holocene savanna dynamics in the seasonal tropics of northern Australia. <i>Review of Palaeobotany and Palynology</i> , 2019, 267, 17-31.	0.8	17
86	Root density distribution and biomass allocation of co-occurring woody plants on contrasting soils in a subtropical savanna parkland. <i>Plant and Soil</i> , 2019, 438, 263-279.	1.8	21
87	Effects of Mineral Nitrogen Partitioning on Tree→Grass Coexistence in West African Savannas. <i>Ecosystems</i> , 2019, 22, 1676-1690.	1.6	6
88	Competition suppresses shrubs during early, but not late, stages of arid grassland→shrubland state transition. <i>Functional Ecology</i> , 2019, 33, 1480-1490.	1.7	16
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97	The role of spatial self-organization in the design of agroforestry systems. <i>PLoS ONE</i> , 2020, 15, e0236325.	1.1	10
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99	Small differences in root distributions allow resource niche partitioning. <i>Ecology and Evolution</i> , 2020, 10, 9776-9787.	0.8	16
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106	A nurse shrub species helps associated herbaceous plants by preventing shadeâ€induced evaporation in a desert ecosystem. <i>Land Degradation and Development</i> , 2021, 32, 1796-1808.	1.8	10
107	Hydraulic redistribution buffers climate variability and regulates grassâ€tree interactions in a semiarid riparian savanna. <i>Ecohydrology</i> , 2021, 14, e2271.	1.1	7
108	Domestic wastewater infiltration process in desert sandy soil and its irrigation prospect analysis. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111419.	2.9	10
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111	Fine root dynamic characteristics and effect on plantationâ€s carbon sequestration of three <i>Salix</i> shrub plantations in Tibetan Plateau alpine sandy land. <i>Ecology and Evolution</i> , 2021, 11, 2645-2659.	0.8	6
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115	Multi-scale assessment of a grassland productivity model. <i>Biogeosciences</i> , 2021, 18, 2213-2220.	1.3	1
116	Warming promotes growth of seedlings of a woody encroacher in grassland dominated by C4 species. <i>African Journal of Range and Forage Science</i> , 0, , 1-9.	0.6	2
117	Temporal variation and controlling factors of tree water consumption in the thornbush savanna. <i>Journal of Arid Environments</i> , 2021, 189, 104500.	1.2	4
118	Do Woody Tree Thinning and Season Have Effect on Grass Speciesâ€™ Composition and Biomass in a Semi-Arid Savanna? The Case of a Semi-Arid Savanna, Southern Ethiopia. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	4
119	Belowground competition and growth of juvenile trees in a long-unburnt Australian savanna. <i>Forest Ecology and Management</i> , 2021, 491, 119141.	1.4	0
120	Tree-ring $\delta^{18}O$ identifies similarity in timing but differences in depth of soil water uptake by trees in mesic and arid climates. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108569.	1.9	7
121	Deepening roots can enhance carbonate weathering by amplifying CO <sub>2</sub> -rich recharge. <i>Biogeosciences</i> , 2021, 18, 55-75.	1.3	31
122	Influence of Tree Density on Vegetation Composition and Soil Chemical Properties in Savanna Rangeland of Eastern Cape, South Africa. <i>Agricultural Sciences</i> , 2021, 12, 991-1002.	0.2	2
123	Ecohydrology of Arid and Semiarid Ecosystems: An Introduction. , 2019, , 1-27.		3
124	Woody Plant Encroachment: Causes and Consequences. <i>Springer Series on Environmental Management</i> , 2017, , 25-84.	0.3	266
125	The effects of bush control methods on encroaching woody plants in terms of die-off and survival in Borana rangelands, southern Ethiopia. <i>Pastoralism</i> , 2020, 10, .	0.3	8
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127	Shade is the most important factor limiting growth of a woody range expander. <i>PLoS ONE</i> , 2020, 15, e0242003.	1.1	6
128	Plant water resource partitioning and xylem-to-leaf deuterium enrichment in Lanzhou, northwest China. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 1127-1140.	1.0	2
132	Divergent Patterns and Spatial Heterogeneity of Soil Nutrients in a Complex and Dynamic Savanna Landscape. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	1.3	5
133	Plants in Deserts. , 2015, , 1-24.		1
134	Root structure of shrub encroaching plants in the African savannas: insights from <i>Terminalia sericea</i> (Burch. ex dc) across a climate gradient in the Kalahari Basin. <i>European Journal of Ecology</i> , 2020, 6, 17-26.	0.1	1



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136	Monoculture or Mixed Culture? Relevance of Fine Root Dynamics to Carbon Sequestration Oriented Mangrove Afforestation and Restoration. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	6
137	Positive Effects of Scattered Trees on Soil Water Dynamics in a Pasture Landscape in the Tropics. <i>Frontiers in Water</i> , 2021, 3, .	1.0	6
138	High-resolution images and drone-based LiDAR reveal striking patterns of vegetation gaps in a wooded spinifex grassland of Western Australia. <i>Landscape Ecology</i> , 2022, 37, 829-845.	1.9	9
139	Occurrence of Australian woody species is driven by soil moisture and available phosphorus across a climatic gradient. <i>Journal of Vegetation Science</i> , 2021, 32, e13095.	1.1	7
140	Experimental drought suppresses grass productivity and passive warming promotes tree sapling performance: Insights from African savanna species. <i>Acta Oecologica</i> , 2022, 114, 103813.	0.5	1
141	Competition for water and species coexistence in phenologically structured annual plant communities. <i>Ecology Letters</i> , 2022, 25, 1110-1125.	3.0	7
142	Reinvasion of Native Invasive Trees After a Tree-Thinning Experiment in an African Savanna. <i>Rangeland Ecology and Management</i> , 2022, 81, 69-77.	1.1	4
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144	Grass-shrub coexistence: understanding root distribution in ecological sites of the Semiarid Chaco, Argentina. <i>Arid Land Research and Management</i> , 2022, 36, 331-343.	0.6	0
145	Do Bush Control Techniques Have an Effect on the Density, Cover and Recruitment of Woody Plants in a Semi-Arid Savanna? The Case of a Semi-Arid Savanna, Southern Ethiopia. <i>Frontiers in Environmental Science</i> , 2021, 9, .	1.5	0
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152	Spatial and seasonal patterns of water use in Mediterranean coastal dune vegetation. <i>Plant and Soil</i> , 2022, 477, 807-828.	1.8	4
153	Interacting water, nutrients, and shrub age control steppe grass-shrub competition: Implications for restoration. <i>Ecosphere</i> , 2022, 13, .	1.0	6
154	Increased precipitation attenuates shrub encroachment by facilitating herbaceous growth in a Mongolian grassland. <i>Functional Ecology</i> , 0, , .	1.7	2
155	First-year <i>Acacia</i> seedlings are anisohydric water spenders but differ in their rates of water use. <i>American Journal of Botany</i> , 2022, 109, 1251-1261.	0.8	5
156	Plant functional traits affect competitive vigor of pasture grasses during drought and following recovery. <i>Ecosphere</i> , 2022, 13, .	1.0	4

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157	A modern two-layer hypothesis helps resolve the "savanna problem". <i>Ecology Letters</i> , 2022, 25, 1952-1960.	3.0	6
158	Precipitation Intensification Increases Shrub Dominance in Arid, Not Mesic, Ecosystems. <i>Ecosystems</i> , 2023, 26, 568-584.	1.6	4
159	Trait responses of a grassland shrub invader to altered moisture regimes. <i>Plant and Soil</i> , , .	1.8	1
160	Mean height increase in saplings of a keystone woody savanna species over 15 years similar to that over a single season. <i>Ecosphere</i> , 2022, 13, .	1.0	4
161	Spatial analysis reveals facilitation in young clonal trees and competition in older trees during re-invasion of encroaching trees in an African savanna. <i>Plant Ecology</i> , 2022, 223, 1167-1180.	0.7	1
162	Distribution Characteristics and Drivers of Soil Carbon and Nitrogen in the Drylands of Central Asia. <i>Land</i> , 2022, 11, 1723.	1.2	1
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165	Water-use characteristics of two dominant plant species in different community types in the Mu Us Desert. <i>Catena</i> , 2023, 221, 106803.	2.2	5
166	Linking resource- and disturbance-based models to explain tree-grass coexistence in savannas. <i>New Phytologist</i> , 2023, 237, 1966-1979.	3.5	14
167	The vegetation cover dynamics and potential drivers of habitat change over 30 years in the Free State National Botanical Garden, South Africa. <i>Regional Environmental Change</i> , 2023, 23, .	1.4	5
168	The rate of environmental change as an important driver across scales in ecology. <i>Oikos</i> , 2023, 2023, .	1.2	3
169	Effects of post oak ( <i>Quercus stellata</i> ) and smooth brome ( <i>Bromus inermis</i> ) competition on water uptake and root partitioning of eastern redcedar ( <i>Juniperus virginiana</i> ). <i>PLoS ONE</i> , 2023, 18, e0280100.	1.1	0
179	Hydraulic redistribution: Co-benefit potential on cashew ( <i>Anacardium occidentale</i> L.) cultivation – A review. <i>AIP Conference Proceedings</i> , 2024, , .	0.3	0