

Kevin Kirkman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100
papers

3,344
citations

27
h-index

55
g-index

109
ext. papers

4,220
ext. citations

4.9
avg, IF

4.81
L-index

#	Paper	IF	Citations
100	Plant diversity predicts beta but not alpha diversity of soil microbes across grasslands worldwide. <i>Ecology Letters</i> , 2015 , 18, 85-95	10	394
99	Productivity is a poor predictor of plant species richness. <i>Science</i> , 2011 , 333, 1750-3	33.3	386
98	Grassland productivity limited by multiple nutrients. <i>Nature Plants</i> , 2015 , 1, 15080	11.5	254
97	Addition of multiple limiting resources reduces grassland diversity. <i>Nature</i> , 2016 , 537, 93-96	50.4	225
96	Plant strategies and trait trade-offs influence trends in competitive ability along gradients of soil fertility and disturbance. <i>Journal of Ecology</i> , 2005 , 93, 384-394	6	113
95	Local loss and spatial homogenization of plant diversity reduce ecosystem multifunctionality. <i>Nature Ecology and Evolution</i> , 2018 , 2, 50-56	12.3	97
94	Plant species origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. <i>Nature Communications</i> , 2015 , 6, 7710	17.4	94
93	Patch density determines movement patterns and foraging efficiency of large herbivores. <i>Behavioral Ecology</i> , 2007 , 18, 1065-1072	2.3	92
92	Abundance of introduced species at home predicts abundance away in herbaceous communities. <i>Ecology Letters</i> , 2011 , 14, 274-81	10	78
91	Convergence and contingency in production-precipitation relationships in North American and South African C4 grasslands. <i>Oecologia</i> , 2006 , 149, 456-64	2.9	63
90	Plant community response to loss of large herbivores differs between North American and South African savanna grasslands. <i>Ecology</i> , 2014 , 95, 808-16	4.6	60
89	Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , 2013 , 19, 3677-87	11.4	55
88	Smoke-Water and a Smoke-Isolated Butenolide Improve Germination and Seedling Vigour of <i>Eragrostis tef</i> (Zucc.) Trotter under High Temperature and Low Osmotic Potential. <i>Journal of Agronomy and Crop Science</i> , 2008 , 194, 270-277	3.9	50
87	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	2.5	48
86	Landscape-scale feeding patterns of African elephant inferred from carbon isotope analysis of feces. <i>Oecologia</i> , 2011 , 165, 89-99	2.9	45
85	Controls of Aboveground Net Primary Production in Mesic Savanna Grasslands: An Inter-Hemispheric Comparison. <i>Ecosystems</i> , 2009 , 12, 982-995	3.9	44
84	A test of two mechanisms proposed to optimize grassland aboveground primary productivity in response to grazing. <i>Journal of Plant Ecology</i> , 2012 , 5, 357-365	1.7	44

83	Fire and grazing impacts on silica production and storage in grass dominated ecosystems. <i>Biogeochemistry</i> , 2010 , 97, 263-278	3.8	43
82	Which grazing management practices are most appropriate for maintaining biodiversity in South African grassland?. <i>African Journal of Range and Forage Science</i> , 2010 , 27, 67-76	1.5	42
81	Stable isotope series from elephant ivory reveal lifetime histories of a true dietary generalist. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 2433-41	4.4	38
80	Stoichiometric controls of soil carbon and nitrogen cycling after long-term nitrogen and phosphorus addition in a mesic grassland in South Africa. <i>Soil Biology and Biochemistry</i> , 2019 , 135, 294-303	7.5	37
79	Trait-environment relations for dominant grasses in South African mesic grassland support a general leaf economic model. <i>Journal of Vegetation Science</i> , 2011 , 22, 528-540	3.1	37
78	Responses to fire differ between South African and North American grassland communities. <i>Journal of Vegetation Science</i> , 2014 , 25, 793-804	3.1	36
77	<i>Themeda triandra</i> : a keystone grass species. <i>African Journal of Range and Forage Science</i> , 2013 , 30, 99-125	5	35
76	The influence of balanced and imbalanced resource supply on biodiversity-functioning relationship across ecosystems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	35
75	Soil net nitrogen mineralisation across global grasslands. <i>Nature Communications</i> , 2019 , 10, 4981	17.4	33
74	Out of the shadows: multiple nutrient limitations drive relationships among biomass, light and plant diversity. <i>Functional Ecology</i> , 2017 , 31, 1839-1846	5.6	30
73	Myth-busting tropical grassy biome restoration. <i>Restoration Ecology</i> , 2020 , 28, 1067-1073	3.1	27
72	Smoke and heat: influence on seedling emergence from the germinable soil seed bank of mesic grassland in South Africa. <i>Plant Growth Regulation</i> , 2012 , 66, 119-127	3.2	27
71	Tree species from different functional groups respond differently to environmental changes during establishment. <i>Oecologia</i> , 2014 , 174, 1345-57	2.9	27
70	Response to Comments on "Productivity Is a Poor Predictor of Plant Species Richness". <i>Science</i> , 2012 , 335, 1441-1441	33.3	27
69	Rapid recovery of ecosystem function following extreme drought in a South African savanna grassland. <i>Ecology</i> , 2020 , 101, e02983	4.6	25
68	Loss of a large grazer impacts savanna grassland plant communities similarly in North America and South Africa. <i>Oecologia</i> , 2014 , 175, 293-303	2.9	25
67	Climate modifies response of non-native and native species richness to nutrient enrichment. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	25
66	Nitrogen and Phosphorus Additions Alter the Abundance of Phosphorus-Solubilizing Bacteria and Phosphatase Activity in Grassland Soils. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	25

65	Soil respiration declines with increasing nitrogen fertilization and is not related to productivity in long-term grassland experiments. <i>Soil Biology and Biochemistry</i> , 2017 , 115, 415-422	7.5	24
64	Microbial carbon use efficiency in grassland soils subjected to nitrogen and phosphorus additions. <i>Soil Biology and Biochemistry</i> , 2020 , 146, 107815	7.5	24
63	Smoke Solutions and Temperature Influence the Germination and Seedling Growth of South African Mesic Grassland Species. <i>Rangeland Ecology and Management</i> , 2009 , 62, 572-578	2.2	23
62	Optimisation or satiation, testing diet selection rules in goats. <i>Small Ruminant Research</i> , 2007 , 73, 160-168	7	23
61	Inducible defences in <i>Acacia sieberiana</i> in response to giraffe browsing. <i>African Journal of Range and Forage Science</i> , 2007 , 24, 123-129	1.5	23
60	The heat is on: frequent high intensity fire in bracken (<i>Pteridium aquilinum</i>) drives mortality of the sprouting tree <i>Protea caffra</i> in temperate grasslands. <i>Plant Ecology</i> , 2011 , 212, 2013-2022	1.7	21
59	Fire frequency drives habitat selection by a diverse herbivore guild impacting top-down control of plant communities in an African savanna. <i>Oikos</i> , 2016 , 125, 1636-1646	4	21
58	Interactions of nitrogen and phosphorus cycling promote P acquisition and explain synergistic plant-growth responses. <i>Ecology</i> , 2020 , 101, e03003	4.6	20
57	Stable isotope turnover and variability in tail hairs of captive and free-ranging African elephants (<i>Loxodonta africana</i>) reveal dietary niche differences within populations. <i>Canadian Journal of Zoology</i> , 2013 , 91, 124-134	1.5	19
56	Herbivore size matters for productivity richness relationships in African savannas. <i>Journal of Ecology</i> , 2017 , 105, 674-686	6	18
55	Short-term effect of nutrient availability and rainfall distribution on biomass production and leaf nutrient content of savanna tree species. <i>PLoS ONE</i> , 2014 , 9, e92619	3.7	18
54	Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. <i>Ecosystems</i> , 2019 , 22, 1466-1477	3.9	17
53	Shared Drivers but Divergent Ecological Responses: Insights from Long-Term Experiments in Mesic Savanna Grasslands. <i>BioScience</i> , 2016 , 66, 666-682	5.7	17
52	Germination activity of smoke residues in soils following a fire. <i>South African Journal of Botany</i> , 2011 , 77, 718-724	2.9	17
51	Reintroduction Failure of Captive-Bred Oribi (<i>Ourebia ourebi</i>). <i>South African Journal of Wildlife Research</i> , 2009 , 39, 34-38		17
50	Yield and species composition of a mesic grassland savanna in South Africa are influenced by long-term nutrient addition. <i>Austral Ecology</i> , 2013 , 38, 959-970	1.5	16
49	An Assessment of Illegal Hunting on Farmland in KwaZulu-Natal, South Africa: Implications for Oribi (<i>Ourebia ourebi</i>) Conservation. <i>South African Journal of Wildlife Research</i> , 2010 , 40, 43-52		16
48	Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2016 , 351, 457	33.3	15

47	Vegetative traits predict grass species invasiveness and the invasibility of restored grassland. <i>African Journal of Range and Forage Science</i> , 2009 , 26, 59-68	1.5	14
46	Tree-grass competition along a catenal gradient in a mesic grassland, South Africa. <i>Grassland Science</i> , 2014 , 60, 1-8	1.3	13
45	An African grassland responds similarly to long-term fertilization to the Park Grass experiment. <i>PLoS ONE</i> , 2017 , 12, e0177208	3.7	13
44	The influence of various types and frequencies of rest on the production and condition of sourveld grazed by sheep or cattle. 2. Vigour. <i>African Journal of Range and Forage Science</i> , 2002 , 19, 93-105	1.5	12
43	Perspective: Towards improved grazing management recommendations for sourveld. <i>African Journal of Range and Forage Science</i> , 1995 , 12, 135-144	1.5	12
42	Optimal grazing management strategies: evaluating key concepts. <i>African Journal of Range and Forage Science</i> , 2017 , 34, 87-98	1.5	11
41	Does high-density stocking affect perennial forbs in mesic grassland?. <i>African Journal of Range and Forage Science</i> , 2017 , 34, 133-142	1.5	10
40	Does Holistic Planned Grazing work on native rangelands?. <i>African Journal of Range and Forage Science</i> , 2017 , 34, 59-63	1.5	10
39	Multifunctional Rangeland in Southern Africa: Managing for Production, Conservation, and Resilience with Fire and Grazing. <i>Land</i> , 2013 , 2, 176-193	3.5	10
38	Using housing estates as conservation tools: A case study in KwaZulu-Natal, South Africa. <i>Applied Geography</i> , 2009 , 29, 371-376	4.4	10
37	The influence of various types and frequencies of rest on the production and condition of sourveld grazed by sheep or cattle. 1. Proportional species composition. <i>African Journal of Range and Forage Science</i> , 2002 , 19, 55-62	1.5	10
36	Nutritional and Sensory Evaluation of Injera Prepared from tef and <i>Eragrostis curvula</i> (Schrad.) Nees. Flours with Sorghum Blends. <i>Frontiers in Plant Science</i> , 2016 , 7, 1059	6.2	10
35	What are the long-term effects of high-density, short-duration stocking on the soils and vegetation of mesic grassland in South Africa?. <i>African Journal of Range and Forage Science</i> , 2017 , 34, 111-121	1.5	9
34	MACIS: Minimisation of and Adaptation to Climate Change Impacts on Biodiversity. <i>Gaia</i> , 2008 , 17, 393-395	3.5	9
33	Microbial substrate stoichiometry governs nutrient effects on nitrogen cycling in grassland soils. <i>Soil Biology and Biochemistry</i> , 2021 , 155, 108168	7.5	9
32	Shoot and root biomass allocation and competitive hierarchies of four South African grass species on light, soil resources and cutting gradients. <i>African Journal of Range and Forage Science</i> , 2006 , 23, 113-122	1.5	8
31	Are there common assembly rules for different grasslands? Comparisons of long-term data from a subtropical grassland with temperate grasslands. <i>Journal of Vegetation Science</i> , 2020 , 31, 780-791	3.1	8
30	Overlap in nitrogen sources and redistribution of nitrogen between trees and grasses in a semi-arid savanna. <i>Oecologia</i> , 2014 , 174, 1107-16	2.9	7

29	Long-term landscape changes in vegetation structure: fire management in the wetlands of KwaMbonambi, South Africa. <i>African Journal of Aquatic Science</i> , 2016 , 41, 279-288	1.6	7
28	A research agenda for the restoration of tropical and subtropical grasslands and savannas. <i>Restoration Ecology</i> , 2021 , 29, e13292	3.1	7
27	The influence of <i>Pechuel-Loeschea leubnitziae</i> (wild sage) on grass sward and soil seed bank composition. <i>African Journal of Range and Forage Science</i> , 2012 , 29, 101-107	1.5	6
26	Grass-on-grass competition along a catenal gradient in mesic grassland, South Africa. <i>African Journal of Range and Forage Science</i> , 2011 , 28, 79-85	1.5	6
25	Research note: Quantification of the effects of defoliation on grass vigour. <i>African Journal of Range and Forage Science</i> , 1995 , 12, 89-91	1.5	6
24	Competition with trees does not influence root characteristics of perennial grasses in semi-arid and arid savannas in South Africa. <i>Journal of Arid Environments</i> , 2016 , 124, 270-277	2.5	5
23	A native C3 grass alters fuels and fire spread in montane grassland of South Africa. <i>Plant Ecology</i> , 2018 , 219, 621-632	1.7	5
22	Using partial volumes to estimate available browse biomass in Southern African semi-arid savannas. <i>Applied Vegetation Science</i> , 2014 , 17, 578-590	3.3	5
21	Is use of translocation for the conservation of subpopulations of oribi <i>Ourebia ourebi</i> (Zimmermann) effective? A case study. <i>African Journal of Ecology</i> , 2009 , 47, 409-415	0.8	5
20	Variation in Grassland Fuel Curing in South Africa. <i>Fire Ecology</i> , 2016 , 12, 40-52	5.1	5
19	Local Perceptions of Hydraulic Fracturing Ahead of Exploratory Drilling in Eastern South Africa. <i>Environmental Management</i> , 2019 , 63, 338-351	3.1	4
18	Response of Grass Seedlings to Smoke-Water and Smoke-Derived Butenolide in the Absence of Macronutrients (Nitrogen, Phosphorus, and Potassium). <i>Rangeland Ecology and Management</i> , 2012 , 65, 31-38	2.2	4
17	Do soil nutrients mediate competition between grasses and Acacia saplings?. <i>Grassland Science</i> , 2012 , 58, 238-245	1.3	4
16	Use of the dry-weight-rank method of botanical analysis in semi-arid savanna communities. <i>African Journal of Range and Forage Science</i> , 2001 , 18, 63-66	1.5	4
15	Epichloae infection in a native South African grass, <i>Festuca costata</i> Nees. <i>Plant Biology</i> , 2015 , 17, 914-213.7	3.7	3
14	Classification and mapping of the composition and structure of dry woodland and savanna in the eastern Okavango Delta. <i>Koedoe</i> , 2013 , 55,	1.1	3
13	Response of three mesic South African perennial grassland forbs to defoliation and competition. <i>African Journal of Range and Forage Science</i> , 2019 , 36, 191-195	1.5	3
12	Nutrient addition increases biomass of soil fungi: evidence from a South African grassland. <i>South African Journal of Plant and Soil</i> , 2017 , 34, 71-73	0.8	2

11	Seed mix type but not planting method or seed priming affect grassland restoration outcomes: a greenhouse trial. <i>African Journal of Range and Forage Science</i> , 2019 , 36, 115-124	1.5	1
10	Determinants of the occurrence of a native encroacher species, <i>Pechuelloeschea leubnitziae</i> (wild sage), in the eastern Okavango Delta, Botswana. <i>African Journal of Range and Forage Science</i> , 2015 , 32, 253-259	1.5	1
9	Savanna browse production. 1: Determinants and measurement. <i>African Journal of Range and Forage Science</i> , 2014 , 31, 13-24	1.5	1
8	Savanna browse production. 2: Prediction. <i>African Journal of Range and Forage Science</i> , 2014 , 31, 25-36	1.5	1
7	Spatial turnover of multiple ecosystem functions is more associated with plant than soil microbial diversity. <i>Ecosphere</i> , 2021 , 12, e03644	3.1	1
6	Temporal rarity is a better predictor of local extinction risk than spatial rarity. <i>Ecology</i> , 2021 , 102, e03504	4.6	1
5	Ecological Grassland Restoration: A South African Perspective. <i>Land</i> , 2022 , 11, 575	3.5	1
4	Be proactive on energy sprawl: South Africa must anticipate surface impacts of fracking in rural areas. <i>Resources Policy</i> , 2021 , 72, 102081	7.2	0
3	Assessing long-term nutrient and lime enrichment effects on a subtropical South African grassland. <i>African Journal of Range and Forage Science</i> , 1-13	1.5	0
2	Reinvasion of Native Invasive Trees After a Tree-Thinning Experiment in an African Savanna. <i>Rangeland Ecology and Management</i> , 2022 , 81, 69-77	2.2	0
1	Influence of burning and defoliation on <i>Festuca costata</i> (Nees) in the Drakensberg. <i>African Journal of Range and Forage Science</i> , 1-8	1.5	