

T Michael Anderson

List of Publications by Citations

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62
papers

4,190
citations

28
h-index

62
g-index

62
ext. papers

5,029
ext. citations

10.6
avg, IF

5.07
L-index

#	Paper	IF	Citations
62	On the specification of structural equation models for ecological systems. <i>Ecological Monographs</i> , 2010 , 80, 67-87	9	496
61	Herbivores and nutrients control grassland plant diversity via light limitation. <i>Nature</i> , 2014 , 508, 517-20	50.4	473
60	Savanna vegetation-fire-climate relationships differ among continents. <i>Science</i> , 2014 , 343, 548-52	33.3	392
59	Integrative modelling reveals mechanisms linking productivity and plant species richness. <i>Nature</i> , 2016 , 529, 390-3	50.4	389
58	Productivity is a poor predictor of plant species richness. <i>Science</i> , 2011 , 333, 1750-3	33.3	386
57	Does species diversity limit productivity in natural grassland communities?. <i>Ecology Letters</i> , 2007 , 10, 680-9	10	290
56	The priority of prediction in ecological understanding. <i>Oikos</i> , 2017 , 126, 1-7	4	112
55	Comment on "The global tree restoration potential". <i>Science</i> , 2019 , 366,	33.3	109
54	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
53	Landscape-scale analyses suggest both nutrient and antipredator advantages to Serengeti herbivore hotspots. <i>Ecology</i> , 2010 , 91, 1519-29	4.6	90
52	Body size and the division of niche space: food and predation differentially shape the distribution of Serengeti grazers. <i>Journal of Animal Ecology</i> , 2012 , 81, 201-13	4.7	78
51	Rainfall and soils modify plant community response to grazing in Serengeti National Park. <i>Ecology</i> , 2007 , 88, 1191-201	4.6	78
50	Forage nutritive quality in the Serengeti ecosystem: the roles of fire and herbivory. <i>American Naturalist</i> , 2007 , 170, 343-57	3.7	77
49	Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1925-1932	12.3	77
48	Road will ruin Serengeti. <i>Nature</i> , 2010 , 467, 272-3	50.4	72
47	Scale-dependent relationships between the spatial distribution of a limiting resource and plant species diversity in an African grassland ecosystem. <i>Oecologia</i> , 2004 , 139, 277-87	2.9	64
46	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

45	The effect of fire on habitat selection of mammalian herbivores: the role of body size and vegetation characteristics. <i>Journal of Animal Ecology</i> , 2014 , 83, 1196-205	4.7	49
44	Spatial guilds in the Serengeti food web revealed by a Bayesian group model. <i>PLoS Computational Biology</i> , 2011 , 7, e1002321	5	47
43	The Relationship of Phylogeny to Community Structure: The Cactus Yeast Community. <i>American Naturalist</i> , 2004 , 164, 709-721	3.7	45
42	Seagrass Bediment Feedback: An Exploration Using a Non-recursive Structural Equation Model. <i>Ecosystems</i> , 2012 , 15, 1380-1393	3.9	44
41	Elephant damage, not fire or rainfall, explains mortality of overstorey trees in Serengeti. <i>Journal of Ecology</i> , 2016 , 104, 409-418	6	40
40	The spatial distribution of African savannah herbivores: species associations and habitat occupancy in a landscape context. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016 , 371,	5.8	39
39	Pyrodiversity interacts with rainfall to increase bird and mammal richness in African savannas. <i>Ecology Letters</i> , 2018 , 21, 557-567	10	35
38	Ecology's cruel dilemma, phylogenetic trait evolution and the assembly of Serengeti plant communities. <i>Journal of Ecology</i> , 2011 , 99, 797-806	6	33
37	Comment on "The extent of forest in dryland biomes". <i>Science</i> , 2017 , 358,	33.3	31
36	Nutrient acquisition and physiological responses of dominant Serengeti grasses to variation in soil texture and grazing. <i>Journal of Ecology</i> , 2006 , 94, 1164-1175	6	30
35	Multi-scale analysis of plant species richness in Serengeti grasslands. <i>Journal of Biogeography</i> , 2007 , 34, 313-323	4.1	28
34	Response to Comments on "Productivity Is a Poor Predictor of Plant Species Richness". <i>Science</i> , 2012 , 335, 1441-1441	33.3	27
33	Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. <i>Ecology</i> , 2018 , 99, 822-831	4.6	25
32	Grass competition overwhelms effects of herbivores and precipitation on early tree establishment in Serengeti. <i>Journal of Ecology</i> , 2019 , 107, 216-228	6	25
31	Plant compositional change over time increases with rainfall in Serengeti grasslands. <i>Oikos</i> , 2008 , 117, 675-682	4	25
30	Variation in the soil silicon landscape explains plant silica accumulation across environmental gradients in Serengeti. <i>Plant and Soil</i> , 2017 , 410, 217-229	4.2	23
29	Biogeographically distinct controls on C3 and C4 grass distributions: merging community and physiological ecology. <i>Global Ecology and Biogeography</i> , 2015 , 24, 304-313	6.1	22
28	Anthropogenic modifications to fire regimes in the wider Serengeti-Mara ecosystem. <i>Global Change Biology</i> , 2019 , 25, 3406-3423	11.4	21

27	Distinct Physiological Responses Underlie Defoliation Tolerance in African Lawn and Bunch Grasses. <i>International Journal of Plant Sciences</i> , 2013 , 174, 769-778	2.6	21
26	Leaf thickness controls variation in leaf mass per area (LMA) among grazing-adapted grasses in Serengeti. <i>Oecologia</i> , 2016 , 181, 1035-40	2.9	21
25	Seed germination cues and the importance of the soil seed bank across an environmental gradient in the Serengeti. <i>Oikos</i> , 2012 , 121, 306-312	4	20
24	Soil nutrients and precipitation are major drivers of global patterns of grass leaf silicification. <i>Ecology</i> , 2020 , 101, e03006	4.6	19
23	Endozoochorous seed dispersal and germination strategies of Serengeti plants. <i>Journal of Vegetation Science</i> , 2014 , 25, 636-647	3.1	19
22	Continent-level drivers of African pyrodiversity. <i>Ecography</i> , 2018 , 41, 889-899	6.5	18
21	Precipitation, fire and demographic bottleneck dynamics in Serengeti tree populations. <i>Landscape Ecology</i> , 2014 , 29, 1613-1623	4.3	16
20	Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , 2016 , 351, 457	33.3	15
19	Using short-term MODIS time-series to quantify tree cover in a highly heterogeneous African savanna. <i>International Journal of Remote Sensing</i> , 2013 , 34, 6865-6882	3.1	15
18	Generation and Maintenance of Heterogeneity in the Serengeti Ecosystem	135-182	15
17	Compositional decoupling of savanna canopy and understory tree communities in Serengeti. <i>Journal of Vegetation Science</i> , 2015 , 26, 385-394	3.1	14
16	Interactions between large herbivores and litter removal by termites across a rainfall gradient in a South African savanna. <i>Journal of Tropical Ecology</i> , 2011 , 27, 375-382	1.3	10
15	Ungulate grazing drives higher ramet turnover in sodium-adapted Serengeti grasses. <i>Journal of Vegetation Science</i> , 2017 , 28, 815-823	3.1	9
14	Soil CO ₂ Emissions Associated with Termitaria in Tropical Savanna: Evidence for Hot-Spot Compensation. <i>Ecosystems</i> , 2012 , 15, 1147-1157	3.9	8
13	Spatial transitions in tree cover are associated with soil hydrology, but not with grass biomass, fire frequency, or herbivore biomass in Serengeti savannahs. <i>Journal of Ecology</i> , 2020 , 108, 586-597	6	8
12	Mixed-species groups of Serengeti grazers: a test of the stress gradient hypothesis. <i>Ecology</i> , 2020 , 101, e03163	4.6	7
11	The burning question: does fire affect habitat selection and forage preference of the black rhinoceros <i>Diceros bicornis</i> in East African savannahs?. <i>Oryx</i> , 2020 , 54, 234-243	1.5	7
10	Functional diversification enabled grassy biomes to fill global climate space		6

9	Identifying drivers of spatial variation in occupancy with limited replication camera trap data. <i>Ecology</i> , 2018 , 99, 2152-2158	4.6	5
8	Seed production, infestation, and viability in <i>Acacia tortilis</i> (synonym: <i>Vachellia tortilis</i>) and <i>Acacia robusta</i> (synonym: <i>Vachellia robusta</i>) across the Serengeti rainfall gradient. <i>Plant Ecology</i> , 2017 , 218, 909-922	1.7	5
7	Sapling growth gradients interact with homogeneous disturbance regimes to explain savanna tree cover discontinuities. <i>Ecological Monographs</i> ,	9	3
6	Responses of African Grasses in the Genus <i>Sporobolus</i> to Defoliation and Sodium Stress: Tradeoffs, Cross-Tolerance, or Independent Responses?. <i>Plants</i> , 2013 , 2, 712-25	4.5	2
5	Savannas are vital but overlooked carbon sinks.. <i>Science</i> , 2022 , 375, 392	33.3	2
4	The role of microsite sunlight environment on growth, architecture, and resource allocation in dominant <i>Acacia</i> tree seedlings, in Serengeti, East Africa. <i>Plant Ecology</i> , 2020 , 221, 1187-1199	1.7	2
3	The <code>plantspec</code> package: A tool for spectral analysis of plant stoichiometry. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 673-679	7.7	1
2	Fire, grazers, and browsers interact with grass competition to determine tree establishment in an African savanna.. <i>Ecology</i> , 2022 , e3715	4.6	1
1	Community ecology: top-down turned upside-down. <i>Current Biology</i> , 2010 , 20, R854-5	6.3	