Mark E Ritchie

List of Publications by Year
in descending order

43 papers	6,858 citations	279798 23 h-index	276875 41 g-index
45 all docs	45 docs citations	45 times ranked	8464 citing authors

#	Article	IF	Citations
1	The Influence of Functional Diversity and Composition on Ecosystem Processes. Science, 1997, 277, 1300-1302.	12.6	2,414
2	Effects of herbivores on grassland plant diversity. Trends in Ecology and Evolution, 1998, 13, 261-265.	8.7	1,127
3	HERBIVORE EFFECTS ON PLANT AND NITROGEN DYNAMICS IN OAK SAVANNA. Ecology, 1998, 79, 165-177.	3.2	407
4	Herbivore impact on grassland plant diversity depends on habitat productivity and herbivore size. Ecology Letters, 2006, 9, 780-788.	6.4	393
5	Effects of macrophyte species richness on wetland ecosystem functioning and services. Nature, 2001, 411, 687-689.	27.8	390
6	Global environmental controls of diversity in large herbivores. Nature, 2002, 415, 901-904.	27.8	324
7	Animating the Carbon Cycle. Ecosystems, 2014, 17, 344-359.	3.4	168
8	Cross-boundary human impacts compromise the Serengeti-Mara ecosystem. Science, 2019, 363, 1424-1428.	12.6	160
9	THE EFFECT OF AQUATIC PLANT SPECIES RICHNESS ON WETLAND ECOSYSTEM PROCESSES. Ecology, 2002, 83, 2911-2924.	3.2	154
10	NITROGEN LIMITATION AND TROPHIC VS. ABIOTIC INFLUENCES ON INSECT HERBIVORES IN A TEMPERATE GRASSLAND. Ecology, 2000, 81, 1601-1612.	3.2	142
11	Scale-dependent foraging and patch choice in fractal environments. Evolutionary Ecology, 1998, 12, 309-330.	1.2	121
12	Landscapeâ€scale analyses suggest both nutrient and antipredator advantages to Serengeti herbivore hotspots. Ecology, 2010, 91, 1519-1529.	3.2	116
13	Responses of Legumes to Herbivores and Nutrients During Succession on a Nitrogen-Poor Soil. Ecology, 1995, 76, 2648-2655.	3.2	100
14	Forage Nutritive Quality in the Serengeti Ecosystem: The Roles of Fire and Herbivory. American Naturalist, 2007, 170, 343-357.	2.1	98
15	RAINFALL AND SOILS MODIFY PLANT COMMUNITY RESPONSE TO GRAZING IN SERENGETI NATIONAL PARK. Ecology, 2007, 88, 1191-1201.	3.2	94
16	Plant productivity and soil nitrogen as a function of grazing, migration and fire in an African savanna. Journal of Ecology, 2007, 95, 115-128.	4.0	86
17	The effect of fire on habitat selection of mammalian herbivores: the role of body size and vegetation characteristics. Journal of Animal Ecology, 2014, 83, 1196-1205.	2.8	72
18	Dynamics of core and occasional species in the marine plankton: tintinnid ciliates in the northâ€west Mediterranean Sea. Journal of Biogeography, 2009, 36, 887-895.	3.0	54

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19	Intraspecific trait variation drives functional responses of old-field plant communities to nutrient enrichment. Oecologia, 2016, 181, 245-255.	2.0	54
20	Community Functional Responses to Soil and Climate at Multiple Spatial Scales: When Does Intraspecific Variation Matter?. PLoS ONE, 2014, 9, e111189.	2.5	50
21	Reaction and diffusion thermodynamics explain optimal temperatures of biochemical reactions. Scientific Reports, 2018, 8, 11105.	3.3	45
22	Plant compensation to grazing and soil carbon dynamics in a tropical grassland. PeerJ, 2014, 2, e233.	2.0	30
23	Herbivory and plant tolerance: experimental tests of alternative hypotheses involving nonâ€substitutable resources. Oikos, 2011, 120, 119-127.	2.7	29
24	The hidden Serengetiâ€"Mycorrhizal fungi respond to environmental gradients. Pedobiologia, 2015, 58, 165-176.	1.2	25
25	The impact of burning on lion Panthera leo habitat choice in an African savanna. Environmental Epigenetics, 2013, 59, 335-339.	1.8	23
26	The impacts of burning on <scp>T</scp>homson's gazelles', <scp>G</scp>azella thomsonii, vigilance in <scp>S</scp>erengeti <scp>N</scp>ational <scp>P</scp>ark, <scp>T</scp>anzania. African Journal of Ecology, 2013, 51, 337-342.	0.9	22
27	Contrasting Effects of Different Mammalian Herbivores on Sagebrush Plant Communities. PLoS ONE, 2015, 10, e0118016.	2.5	20
28	Effects of herbivores on nitrogen fixation by grass endophytes, legume symbionts and free-living soil surface bacteria in the Serengeti. Pedobiologia, 2016, 59, 233-241.	1.2	18
29	Body size and species coexistence in consumerâ€"resource interactions: A comparison of two alternative theoretical frameworks. Theoretical Ecology, 2012, 5, 141-151.	1.0	17
30	Nitrogen Limitation and Trophic vs. Abiotic Influences on Insect Herbivores in a Temperate Grassland. Ecology, 2000, 81, 1601.	3.2	16
31	Grazing Management, Forage Production and Soil Carbon Dynamics. Resources, 2020, 9, 49.	3.5	14
32	Savanna fire management can generate enough carbon revenue to help restore Africaâ€™s rangelands and fill protected area funding gaps. One Earth, 2021, 4, 1776-1791.	6.8	13
33	Episodic herbivory, plant density dependence, and stimulation of aboveground plant production. Ecology and Evolution, 2020, 10, 5302-5314.	1.9	11
34	Savannas are vital but overlooked carbon sinks. Science, 2022, 375, 392-392.	12.6	11
35	Large herbivores facilitate a dominant grassland forb via multiple indirect effects. Ecology, 2022, 103, e3635.	3.2	10
36	Land-Cover Legacy Effects on Arbuscular Mycorrhizal Abundance in Human and Wildlife Dominated Systems in Tropical Savanna. Advances in Ecology, 2016, 2016, 1-10.	0.5	6

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37	Contributions of AM fungi and soil organic matter to plant productivity in tropical savanna soils under different land uses. Rhizosphere, 2016, 1, 45-52.	3.0	6
38	Effects of whiteâ€tailed deer exclusion on the plant community composition of an upland tallgrass prairie ecosystem. Journal of Vegetation Science, 2020, 31, 899-907.	2.2	6
39	Large herbivore impact on plant biomass along multiple resource gradients in the Serengeti. Journal of Ecology, 2022, 110, 1537-1547.	4.0	4
40	Body Size Mediated Coexistence in Swans. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	3
41	Alternative hypotheses for mammalian herbivore preference of burned areas in a savannah ecosystem. African Journal of Ecology, 2016, 54, 471-478.	0.9	3
42	Supersizing sustainability in savannas. Nature Sustainability, 2020, 3, 348-349.	23.7	1
43	NITROGEN LIMITATION AND TROPHIC VS. ABIOTIC INFLUENCES ON INSECT HERBIVORES IN A TEMPERATE GRASSLAND. , 2000, 81, 1601.		1