S J Mcnaughton

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/10966479/publications.pdf

Version: 2024-02-01

79 papers	13,394 citations	43973 48 h-index	79541 73 g-index
79 all docs	79 docs citations	79 times ranked	6861 citing authors

#	Article	IF	Citations
1	Ecology of a Grazing Ecosystem: The Serengeti. Ecological Monographs, 1985, 55, 259-294.	2.4	1,140
2	Grazing as an Optimization Process: Grass-Ungulate Relationships in the Serengeti. American Naturalist, 1979, 113, 691-703.	1.0	1,044
3	Compensatory Plant Growth as a Response to Herbivory. Oikos, 1983, 40, 329.	1.2	946
4	Grazing Lawns: Animals in Herds, Plant Form, and Coevolution. American Naturalist, 1984, 124, 863-886.	1.0	826
5	Ecosystem-level patterns of primary productivity and herbivory in terrestrial habitats. Nature, 1989, 341, 142-144.	13.7	651
6	Diversity and Stability of Ecological Communities: A Comment on the Role of Empiricism in Ecology. American Naturalist, 1977, 111, 515-525.	1.0	563
7	Promotion of the Cycling of Diet-Enhancing Nutrients by African Grazers. Science, 1997, 278, 1798-1800.	6.0	470
8	Serengeti Grassland Ecology: The Role of Composite Environmental Factors and Contingency in Community Organization. Ecological Monographs, 1983, 53, 291-320.	2.4	449
9	Large Mammals and Process Dynamics in African Ecosystems. BioScience, 1988, 38, 794-800.	2.2	406
10	Serengeti Migratory Wildebeest: Facilitation of Energy Flow by Grazing. Science, 1976, 191, 92-94.	6.0	397
11	Dominance and the Niche in Ecological Systems. Science, 1970, 167, 131-139.	6.0	354
12	Relationships among Functional Properties of Californian Grassland. Nature, 1967, 216, 168-169.	13.7	293
13	Mineral nutrition and spatial concentrations of African ungulates. Nature, 1988, 334, 343-345.	13.7	270
14	Ecology of African Grazing and Browsing Mammals. Annual Review of Ecology, Evolution, and Systematics, 1986, 17, 39-66.	6.7	266
15	Silica as a Defense against Herbivory and a Growth Promotor in African Grasses. Ecology, 1985, 66, 528-535.	1.5	246
16	Effect of stress and time for recovery on the amount of compensatory growth after grazing. Oecologia, 1991, 85, 305-313.	0.9	228
17	Structure and Function in California Grasslands. Ecology, 1968, 49, 962-972.	1.5	227
18	Mineral nutrition and seasonal movements of African migratory ungulates. Nature, 1990, 345, 613-615.	13.7	208

#	Article	IF	Citations
19	Grass leaf silicification: Natural selection for an inducible defense against herbivores. Proceedings of the National Academy of Sciences of the United States of America, 1983, 80, 790-791.	3.3	199
20	Grazing and the Dynamics of Nutrient and Energy Regulated Microbial Processes in the Serengeti grasslands. Oikos, 1987, 49, 101.	1.2	198
21	ROOT BIOMASS AND PRODUCTIVITY IN A GRAZING ECOSYSTEM: THE SERENGETI. Ecology, 1998, 79, 587-592.	1.5	197
22	Ecotype Function in the Typha Communityâ€Type. Ecological Monographs, 1966, 36, 297-325.	2.4	194
23	Effect of animal husbandry on herbivore-carrying capacity at a regional scale. Nature, 1992, 356, 234-236.	13.7	192
24	On Plants and Herbivores. American Naturalist, 1986, 128, 765-770.	1.0	175
25	Structure and Function of Successional Vascular Plant Communities in Central New York. Ecological Monographs, 1975, 45, 161-182.	2.4	172
26	Stability Increases with Diversity in Plant Communities: Empirical Evidence from the 1988 Yellowstone Drought. Oikos, 1991, 62, 360.	1.2	171
27	Plant Adaptation in an Ecosystem Context: Effects of Defoliation, Nitrogen, and Water on Growth of an African C4 Sedge. Ecology, 1983, 64, 307-318.	1.5	165
28	Determinants of biodiversity regulate compositional stability of communities. Nature, 1999, 401, 691-693.	13.7	142
29	Effects of Phosphorus Nutrition and Defoliation on C4Graminoids from the Serengeti Plains. Ecology, 1985, 66, 1617-1629.	1.5	137
30	Serengeti Ungulates: Feeding Selectivity Influences the Effectiveness of Plant Defense Guilds. Science, 1978, 199, 806-807.	6.0	136
31	Autotoxic Feedback in Relatin to Germination and Seedling Growth in Typha Latifolia. Ecology, 1968, 49, 367-369.	1.5	121
32	Stability and Diversity at Three Trophic Levels in Terrestrial Successional Ecosystems. Science, 1971, 173, 1134-1136.	6.0	120
33	Stability and diversity of ecological communities. Nature, 1978, 274, 251-253.	13.7	118
34	Intraspecific variation in the response of Themeda triandra to defoliation: the effect of time of recovery and growth rates on compensatory growth. Oecologia, 1988, 77, 181-186.	0.9	115
35	Source-Sink Carbon Relations in Two Panicum Coloratum Ecotypes in Response to Herbivory. Ecology, 1991, 72, 1472-1483.	1.5	111
36	Heavy Metal Tolerance in Typha Latifolia without the Evolution of Tolerant Races. Ecology, 1974, 55, 1163-1165.	1.5	103

#	Article	IF	Citations
37	Lack of compensatory growth under phosphorus deficiency in grazing-adapted grasses from the Serengeti Plains. Oecologia, 1989, 79, 551-557.	0.9	99
38	The effects of clipping, nitrogen source and nitrogen concentration on the growth responses and nitrogen uptake of an east african sedge. Oecologia, 1983, 59, 253-261.	0.9	94
39	Simulated Effects of Grazing on Soil Nitrogen and Mineralization in Contrasting Serengeti Grasslands. Ecology, 1992, 73, 1105-1123.	1.5	94
40	Compensatory Photosynthetic Responses of Three African Graminoids to Different Fertilization, Watering, and Clipping Regimes. Botanical Gazette, 1984, 145, 151-156.	0.6	93
41	Carbon partitioning patterns of mycorrhizal versus nonâ€mycorrhizal plants: realâ€time dynamic measurements using 11 CO 2. New Phytologist, 1989, 112, 489-493.	3.5	89
42	Responses of an African graminoid (Themeda triandra Forsk.) to frequent defoliation, nitrogen, and water: a limit of adaptation to herbivory. Oecologia, 1985, 68, 105-110.	0.9	85
43	Ammonia volatilization and the effects of large grazing mammals on nutrient loss from East African grasslands. Oecologia, 1988, 77, 382-386.	0.9	73
44	Spatial variation in forage nutrient concentrations and the distribution of Serengeti grazing ungulates. Landscape Ecology, 1992, 7, 229-241.	1.9	72
45	The propagation of disturbance in savannas through food webs. Journal of Vegetation Science, 1992, 3, 301-314.	1.1	69
46	Responses of an African tall-grass (Hyparrhenia filipendula stapf.) to defoliation and limitations of water and nitrogen. Oecologia, 1985, 68, 80-86.	0.9	64
47	Biodiversity and Function of Grazing Ecosystems. , 1994, , 361-383.		61
48	Urea as a promotive coupler of plant-herbivore interactions. Oecologia, 1984, 63, 331-337.	0.9	52
49	Laboratory-Simulated Grazing: Interactive Effects of Defoliation and Canopy Closure on Serengeti Grasses. Ecology, 1992, 73, 170-182.	1.5	49
50	Diversity and stability. Nature, 1988, 333, 204-205.	13.7	47
51	Photosynthesis and Photorespiration in Typha latifolia. Plant Physiology, 1970, 45, 703-707.	2.3	46
52	Interactive effect of flooding and grazing on the growth of Serengeti grasses. Oecologia, 1991, 88, 153-156.	0.9	46
53	COMBUSTION IN NATURAL FIRES AND GLOBAL EMISSIONS BUDGETS. , 1998, 8, 464-468.		38
54	Simulated effects of precipitation and nitrogen on Serengeti grassland productivity. Biogeochemistry, 1993, 22, 157.	1.7	35

#	Article	IF	Citations
55	Tradeoff between height and relative growth rate in a dominant grass from the Serengeti ecosystem. Oecologia, 1995, 102, 273-276.	0.9	33
56	Comparative Photosynthesis of Quebec and California Ecotypes of Typha Latifolia. Ecology, 1973, 54, 1260-1270.	1.5	32
57	Interactive regulation of grass yield and chemical properties by defoliation, a salivary chemical, and inorganic nutrition. Oecologia, 1985, 65, 478-486.	0.9	31
58	Physiological and Ecological Implications of Herbivory. , 1983, , 657-677.		30
59	Thermal Inactivation Properties of Enzymes from Typha latifolia L. Ecotypes. Plant Physiology, 1966, 41, 1736-1738.	2.3	28
60	EFFECTS OF CLIPPING AND FOUR LEVELS OF NITROGEN ON THE GAS EXCHANGE, GROWTH, AND PRODUCTION OF TWO EAST AFRICAN GRAMINOIDS. American Journal of Botany, 1985, 72, 222-230.	0.8	28
61	Photosynthetic Adaptability of Two Fern Species of a Northern Hardwood Forest. American Fern Journal, 1993, 83, 47.	0.2	28
62	Ecosystem Catalysis: Soil Urease Activity and Grazing in the Serengeti Ecosystem. Oikos, 1997, 80, 467.	1.2	28
63	The effects of clipping and fertilization on nitrogen nutrition and allocation by mycorrhizal and nonmycorrhizal Panicum coloratum L., a C4 grass. Oecologia, 1982, 54, 68-71.	0.9	27
64	Developmental Control of Net Productivity in Typha Latifolia Ecotypes. Ecology, 1974, 55, 864-869.	1.5	25
65	Differential Enzymatic Activity in Ecological Races of Typha latifolia L. Science, 1965, 150, 1829-1830.	6.0	22
66	Photosynthetic System II: Racial Differentiation in Typha latifolia. Science, 1967, 156, 1363-1363.	6.0	19
67	Shoot growth and morphometric analyses of Serengeti graminoids. African Journal of Ecology, 1985, 23, 179-194.	0.4	18
68	GENETIC AND ENVIRONMENTAL CONTROL OF GLYCOLIC ACID OXIDASE ACTIVITY IN ECOTYPIC POPULATIONS OF TYPHA LATIFOLIA. American Journal of Botany, 1969, 56, 37-41.	0.8	17
69	Numerical and temporal relationships in a three-level food chain. Oecologia, 1979, 42, 47-56.	0.9	14
70	The Use of the 11 C Technique to Measure Plant Responses to Herbivorous Soil Nematodes. Functional Ecology, 1991, 5, 810.	1.7	14
71	EFFECTS OF CLIPPING AND FOUR LEVELS OF NITROGEN ON THE GAS EXCHANGE, GROWTH, AND PRODUCTION OF TWO EAST AFRICAN GRAMINOIDS. , 1985, 72, 222.		10
72	Stability and diversity in grassland communities (reply). Nature, 1979, 279, 351-352.	13.7	8

#	Article	IF	Citations
73	Light-stimulated Oxygen Uptake and Glycolic Acid Oxidase in Typha latifolia L. Leaf Disks. Nature, 1966, 211, 1197-1198.	13.7	6
74	Comparative foliage and twig chemistry of co-occurring Myrica gale and Chamaedaphne calyculata. Canadian Journal of Botany, 1993, 71, 129-135.	1.2	5
75	Influence of nutrient availability and tree wildling density on nutrient uptake by Oxalis acetosella and Acer saccharum. Environmental and Experimental Botany, 2001, 45, 11-20.	2.0	5
76	Oxidase Activity in Ecotypic Populations of Typha Latifolia L.. Nature, 1966, 211, 1377-1379.	13.7	4
77	Definition and Quantitation in Ecology. Nature, 1968, 219, 180-181.	13.7	4
78	Measuring Heterotroph-Induced Source-Sink Relationships in Panicum Coloratum with ^1^1C Technology. , 1993, 3, 654-665.		2
79	Age, Location, and Stability of Ecosystems. Science, 1972, 175, 917-918.	6.0	0