

S J Mcnaughton

List of Publications by Year in Descending Order

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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.

78
papers

10,923
citations

46
h-index

79
g-index

79
ext. papers

11,662
ext. citations

14.8
avg, IF

6.32
L-index

#	Paper	IF	Citations
78	Influence of nutrient availability and tree wildling density on nutrient uptake by <i>Oxalis acetosella</i> and <i>Acer saccharum</i> . <i>Environmental and Experimental Botany</i> , 2001 , 45, 11-20	5.9	5
77	Determinants of biodiversity regulate compositional stability of communities. <i>Nature</i> , 1999 , 401, 691-693	50.4	124
76	ROOT BIOMASS AND PRODUCTIVITY IN A GRAZING ECOSYSTEM: THE SERENGETI. <i>Ecology</i> , 1998 , 79, 587-592	4.6	169
75	COMBUSTION IN NATURAL FIRES AND GLOBAL EMISSIONS BUDGETS 1998 , 8, 464-468		33
74	Ecosystem Catalysis: Soil Urease Activity and Grazing in the Serengeti Ecosystem. <i>Oikos</i> , 1997 , 80, 467	4	23
73	Promotion of the cycling of diet-enhancing nutrients by african grazers. <i>Science</i> , 1997 , 278, 1798-800	33.3	415
72	Tradeoff between height and relative growth rate in a dominant grass from the Serengeti ecosystem. <i>Oecologia</i> , 1995 , 102, 273-276	2.9	31
71	Biodiversity and Function of Grazing Ecosystems 1994 , 361-383		33
70	Comparative foliage and twig chemistry of co-occurring <i>Myrica gale</i> and <i>Chamaedaphne calyculata</i> . <i>Canadian Journal of Botany</i> , 1993 , 71, 129-135		5
69	Photosynthetic Adaptability of Two Fern Species of a Northern Hardwood Forest. <i>American Fern Journal</i> , 1993 , 83, 47	0.6	21
68	Measuring Heterotroph-Induced Source-Sink Relationships in <i>Panicum Coloratum</i> with $\delta^{13}C$ Technology 1993 , 3, 654-665		1
67	Simulated effects of precipitation and nitrogen on Serengeti grassland productivity. <i>Biogeochemistry</i> , 1993 , 22, 157	3.8	27
66	Simulated Effects of Grazing on Soil Nitrogen and Mineralization in Contrasting Serengeti Grasslands. <i>Ecology</i> , 1992 , 73, 1105-1123	4.6	75
65	Laboratory-Simulated Grazing: Interactive Effects of Defoliation and Canopy Closure on Serengeti Grasses. <i>Ecology</i> , 1992 , 73, 170-182	4.6	36
64	Spatial variation in forage nutrient concentrations and the distribution of Serengeti grazing ungulates. <i>Landscape Ecology</i> , 1992 , 7, 229-241	4.3	68
63	Effect of animal husbandry on herbivore-carrying capacity at a regional scale. <i>Nature</i> , 1992 , 356, 234-6	50.4	160
62	The propagation of disturbance in savannas through food webs. <i>Journal of Vegetation Science</i> , 1992 , 3, 301-314	3.1	62

61	Effect of stress and time for recovery on the amount of compensatory growth after grazing. <i>Oecologia</i> , 1991 , 85, 305-313	2.9	191
60	Interactive effect of flooding and grazing on the growth of Serengeti grasses. <i>Oecologia</i> , 1991 , 88, 153-156	4.0	
59	Stability Increases with Diversity in Plant Communities: Empirical Evidence from the 1988 Yellowstone Drought. <i>Oikos</i> , 1991 , 62, 360	4	128
58	Source-Sink Carbon Relations in Two <i>Panicum Coloratum</i> Ecotypes in Response to Herbivory. <i>Ecology</i> , 1991 , 72, 1472-1483	4.6	82
57	The Use of the ^{14}C Technique to Measure Plant Responses to Herbivorous Soil Nematodes. <i>Functional Ecology</i> , 1991 , 5, 810	5.6	11
56	Mineral nutrition and seasonal movements of African migratory ungulates. <i>Nature</i> , 1990 , 345, 613-615	50.4	172
55	Lack of compensatory growth under phosphorus deficiency in grazing-adapted grasses from the Serengeti Plains. <i>Oecologia</i> , 1989 , 79, 551-557	2.9	84
54	Carbon partitioning patterns of mycorrhizal versus non-mycorrhizal plants: real-time dynamic measurements using $^{14}CO_2$. <i>New Phytologist</i> , 1989 , 112, 489-493	9.8	80
53	Ecosystem-level patterns of primary productivity and herbivory in terrestrial habitats. <i>Nature</i> , 1989 , 341, 142-4	50.4	537
52	Ammonia volatilization and the effects of large grazing mammals on nutrient loss from East African grasslands. <i>Oecologia</i> , 1988 , 77, 382-386	2.9	59
51	Intraspecific variation in the response of <i>Themeda triandra</i> to defoliation: the effect of time of recovery and growth rates on compensatory growth. <i>Oecologia</i> , 1988 , 77, 181-186	2.9	88
50	Mineral nutrition and spatial concentrations of African ungulates. <i>Nature</i> , 1988 , 334, 343-5	50.4	227
49	Large Mammals and Process Dynamics in African Ecosystems. <i>BioScience</i> , 1988 , 38, 794-800	5.7	343
48	Grazing and the Dynamics of Nutrient and Energy Regulated Microbial Processes in the Serengeti grasslands. <i>Oikos</i> , 1987 , 49, 101	4	151
47	Ecology of African Grazing and Browsing Mammals. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1986 , 17, 39-66		201
46	On Plants and Herbivores. <i>American Naturalist</i> , 1986 , 128, 765-770	3.7	135
45	Effects of Phosphorus Nutrition and Defoliation on C_4 Graminoids from the Serengeti Plains. <i>Ecology</i> , 1985 , 66, 1617-1629	4.6	94
44	Responses of an African tall-grass (<i>Hyparrhenia filipendula</i> stapf.) to defoliation and limitations of water and nitrogen. <i>Oecologia</i> , 1985 , 68, 80-86	2.9	53

43	Responses of an African graminoid (<i>Themeda triandra</i> Forsk.) to frequent defoliation, nitrogen, and water: a limit of adaptation to herbivory. <i>Oecologia</i> , 1985 , 68, 105-110	2.9	69
42	Interactive regulation of grass yield and chemical properties by defoliation, a salivary chemical, and inorganic nutrition. <i>Oecologia</i> , 1985 , 65, 478-486	2.9	26
41	Shoot growth and morphometric analyses of Serengeti graminoids. <i>African Journal of Ecology</i> , 1985 , 23, 179-194	0.8	13
40	EFFECTS OF CLIPPING AND FOUR LEVELS OF NITROGEN ON THE GAS EXCHANGE, GROWTH, AND PRODUCTION OF TWO EAST AFRICAN GRAMINOIDS. <i>American Journal of Botany</i> , 1985 , 72, 222-230	2.7	25
39	Silica as a Defense against Herbivory and a Growth Promotor in African Grasses. <i>Ecology</i> , 1985 , 66, 528-535	4.5	206
38	Ecology of a Grazing Ecosystem: The Serengeti. <i>Ecological Monographs</i> , 1985 , 55, 259-294	9	960
37	EFFECTS OF CLIPPING AND FOUR LEVELS OF NITROGEN ON THE GAS EXCHANGE, GROWTH, AND PRODUCTION OF TWO EAST AFRICAN GRAMINOIDS 1985 , 72, 222		10
36	Urea as a promotive coupler of plant-herbivore interactions. <i>Oecologia</i> , 1984 , 63, 331-337	2.9	44
35	Grazing Lawns: Animals in Herds, Plant Form, and Coevolution. <i>American Naturalist</i> , 1984 , 124, 863-886	3.7	720
34	Compensatory Photosynthetic Responses of Three African Graminoids to Different Fertilization, Watering, and Clipping Regimes. <i>Botanical Gazette</i> , 1984 , 145, 151-156		80
33	The effects of clipping, nitrogen source and nitrogen concentration on the growth responses and nitrogen uptake of an east african sedge. <i>Oecologia</i> , 1983 , 59, 253-261	2.9	80
32	Compensatory Plant Growth as a Response to Herbivory. <i>Oikos</i> , 1983 , 40, 329	4	707
31	Serengeti Grassland Ecology: The Role of Composite Environmental Factors and Contingency in Community Organization. <i>Ecological Monographs</i> , 1983 , 53, 291-320	9	373
30	Grass leaf silicification: Natural selection for an inducible defense against herbivores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1983 , 80, 790-1	11.5	163
29	Plant Adaptation in an Ecosystem Context: Effects of Defoliation, Nitrogen, and Water on Growth of an African C4 Sedge. <i>Ecology</i> , 1983 , 64, 307-318	4.6	104
28	Physiological and Ecological Implications of Herbivory 1983 , 657-677		13
27	The effects of clipping and fertilization on nitrogen nutrition and allocation by mycorrhizal and nonmycorrhizal <i>Panicum coloratum</i> L., a C grass. <i>Oecologia</i> , 1982 , 54, 68-71	2.9	25
26	Numerical and temporal relationships in a three-level food chain. <i>Oecologia</i> , 1979 , 42, 47-56	2.9	11

25	Stability and diversity in grassland communities (reply). <i>Nature</i> , 1979 , 279, 351-352	50.4	7
24	Grazing as an Optimization Process: Grass-Ungulate Relationships in the Serengeti. <i>American Naturalist</i> , 1979 , 113, 691-703	3.7	852
23	Stability and diversity of ecological communities. <i>Nature</i> , 1978 , 274, 251-253	50.4	101
22	Serengeti ungulates: feeding selectivity influences the effectiveness of plant defense guilds. <i>Science</i> , 1978 , 199, 806-7	33.3	119
21	Diversity and Stability of Ecological Communities: A Comment on the Role of Empiricism in Ecology. <i>American Naturalist</i> , 1977 , 111, 515-525	3.7	486
20	Serengeti migratory wildebeest: facilitation of energy flow by grazing. <i>Science</i> , 1976 , 191, 92-4	33.3	328
19	Structure and Function of Successional Vascular Plant Communities in Central New York. <i>Ecological Monographs</i> , 1975 , 45, 161-182	9	155
18	Heavy Metal Tolerance in <i>Typha Latifolia</i> without the Evolution of Tolerant Races. <i>Ecology</i> , 1974 , 55, 1163-1165	4.6	76
17	Developmental Control of Net Productivity in <i>Typha Latifolia</i> Ecotypes. <i>Ecology</i> , 1974 , 55, 864-869	4.6	17
16	Comparative Photosynthesis of Quebec and California Ecotypes of <i>Typha Latifolia</i> . <i>Ecology</i> , 1973 , 54, 1260-1270	4.6	24
15	Age, location, and stability of ecosystems. <i>Science</i> , 1972 , 175, 917-8	33.3	
14	Stability and diversity at three trophic levels in terrestrial successional ecosystems. <i>Science</i> , 1971 , 173, 1134-6	33.3	103
13	Photosynthesis and Photorespiration in <i>Typha latifolia</i> . <i>Plant Physiology</i> , 1970 , 45, 703-7	6.6	37
12	Dominance and the niche in ecological systems. <i>Science</i> , 1970 , 167, 131-9	33.3	309
11	GENETIC AND ENVIRONMENTAL CONTROL OF GLYCOLIC ACID OXIDASE ACTIVITY IN ECOTYPIC POPULATIONS OF <i>TYPHA LATIFOLIA</i> . <i>American Journal of Botany</i> , 1969 , 56, 37-41	2.7	9
10	Autotoxic Feedback in Relation to Germination and Seedling Growth in <i>Typha Latifolia</i> . <i>Ecology</i> , 1968 , 49, 367-369	4.6	90
9	Structure and Function in California Grasslands. <i>Ecology</i> , 1968 , 49, 962-972	4.6	165
8	Definition and quantitation in ecology. <i>Nature</i> , 1968 , 219, 180-1	50.4	2

7	Photosynthetic system II: racial differentiation in <i>Typha latifolia</i> . <i>Science</i> , 1967 , 156, 1363	33.3	14
6	Relationships among Functional Properties of Californian Grassland. <i>Nature</i> , 1967 , 216, 168-169	50.4	205
5	Light-stimulated Oxygen Uptake and Glycolic Acid Oxidase in <i>Typha latifolia</i> L. Leaf Disks. <i>Nature</i> , 1966 , 211, 1197-1198	50.4	5
4	Oxidase Activity in Ecotypic Populations of <i>Typha Latifolia</i> L.. <i>Nature</i> , 1966 , 211, 1377-1379	50.4	2
3	Thermal Inactivation Properties of Enzymes from <i>Typha latifolia</i> L. Ecotypes. <i>Plant Physiology</i> , 1966 , 41, 1736-8	6.6	25
2	Ecotype Function in the <i>Typha</i> Community-Type. <i>Ecological Monographs</i> , 1966 , 36, 297-325	9	154
1	Differential Enzymatic Activity in Ecological Races of <i>Typha latifolia</i> L. <i>Science</i> , 1965 , 150, 1829-30	33.3	16