

# S J Mcnaughton

## List of Publications by Citations

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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	Ecology of a Grazing Ecosystem: The Serengeti. <i>Ecological Monographs</i> , <b>1985</b> , 55, 259-294	9	960
77	Grazing as an Optimization Process: Grass-Ungulate Relationships in the Serengeti. <i>American Naturalist</i> , <b>1979</b> , 113, 691-703	3.7	852
76	Grazing Lawns: Animals in Herds, Plant Form, and Coevolution. <i>American Naturalist</i> , <b>1984</b> , 124, 863-886	3.7	720
75	Compensatory Plant Growth as a Response to Herbivory. <i>Oikos</i> , <b>1983</b> , 40, 329	4	707
74	Ecosystem-level patterns of primary productivity and herbivory in terrestrial habitats. <i>Nature</i> , <b>1989</b> , 341, 142-4	50.4	537
73	Diversity and Stability of Ecological Communities: A Comment on the Role of Empiricism in Ecology. <i>American Naturalist</i> , <b>1977</b> , 111, 515-525	3.7	486
72	Promotion of the cycling of diet-enhancing nutrients by african grazers. <i>Science</i> , <b>1997</b> , 278, 1798-800	33.3	415
71	Serengeti Grassland Ecology: The Role of Composite Environmental Factors and Contingency in Community Organization. <i>Ecological Monographs</i> , <b>1983</b> , 53, 291-320	9	373
70	Large Mammals and Process Dynamics in African Ecosystems. <i>BioScience</i> , <b>1988</b> , 38, 794-800	5.7	343
69	Serengeti migratory wildebeest: facilitation of energy flow by grazing. <i>Science</i> , <b>1976</b> , 191, 92-4	33.3	328
68	Dominance and the niche in ecological systems. <i>Science</i> , <b>1970</b> , 167, 131-9	33.3	309
67	Mineral nutrition and spatial concentrations of African ungulates. <i>Nature</i> , <b>1988</b> , 334, 343-5	50.4	227
66	Silica as a Defense against Herbivory and a Growth Promotor in African Grasses. <i>Ecology</i> , <b>1985</b> , 66, 528-535	3.5	206
65	Relationships among Functional Properties of Californian Grassland. <i>Nature</i> , <b>1967</b> , 216, 168-169	50.4	205
64	Ecology of African Grazing and Browsing Mammals. <i>Annual Review of Ecology, Evolution, and Systematics</i> , <b>1986</b> , 17, 39-66		201
63	Effect of stress and time for recovery on the amount of compensatory growth after grazing. <i>Oecologia</i> , <b>1991</b> , 85, 305-313	2.9	191
62	Mineral nutrition and seasonal movements of African migratory ungulates. <i>Nature</i> , <b>1990</b> , 345, 613-615	50.4	172

61	ROOT BIOMASS AND PRODUCTIVITY IN A GRAZING ECOSYSTEM: THE SERENGETI. <i>Ecology</i> , <b>1998</b> , 79, 587-592	4.6	169
60	Structure and Function in California Grasslands. <i>Ecology</i> , <b>1968</b> , 49, 962-972	4.6	165
59	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> , <b>1983</b> , 80, 790-1	11.5	163
58	Effect of animal husbandry on herbivore-carrying capacity at a regional scale. <i>Nature</i> , <b>1992</b> , 356, 234-6	50.4	160
57	Structure and Function of Successional Vascular Plant Communities in Central New York. <i>Ecological Monographs</i> , <b>1975</b> , 45, 161-182	9	155
56	Ecotype Function in the Typha Community-Type. <i>Ecological Monographs</i> , <b>1966</b> , 36, 297-325	9	154
55	Grazing and the Dynamics of Nutrient and Energy Regulated Microbial Processes in the Serengeti grasslands. <i>Oikos</i> , <b>1987</b> , 49, 101	4	151
54	On Plants and Herbivores. <i>American Naturalist</i> , <b>1986</b> , 128, 765-770	3.7	135
53	Stability Increases with Diversity in Plant Communities: Empirical Evidence from the 1988 Yellowstone Drought. <i>Oikos</i> , <b>1991</b> , 62, 360	4	128
52	Determinants of biodiversity regulate compositional stability of communities. <i>Nature</i> , <b>1999</b> , 401, 691-693	30.4	124
51	Serengeti ungulates: feeding selectivity influences the effectiveness of plant defense guilds. <i>Science</i> , <b>1978</b> , 199, 806-7	33.3	119
50	Plant Adaptation in an Ecosystem Context: Effects of Defoliation, Nitrogen, and Water on Growth of an African C4 Sedge. <i>Ecology</i> , <b>1983</b> , 64, 307-318	4.6	104
49	Stability and diversity at three trophic levels in terrestrial successional ecosystems. <i>Science</i> , <b>1971</b> , 173, 1134-6	33.3	103
48	Stability and diversity of ecological communities. <i>Nature</i> , <b>1978</b> , 274, 251-253	50.4	101
47	Effects of Phosphorus Nutrition and Defoliation on C4 Graminoids from the Serengeti Plains. <i>Ecology</i> , <b>1985</b> , 66, 1617-1629	4.6	94
46	Autotoxic Feedback in Relation to Germination and Seedling Growth in Typha Latifolia. <i>Ecology</i> , <b>1968</b> , 49, 367-369	4.6	90
45	Intraspecific variation in the response of Themeda triandra to defoliation: the effect of time of recovery and growth rates on compensatory growth. <i>Oecologia</i> , <b>1988</b> , 77, 181-186	2.9	88
44	Lack of compensatory growth under phosphorus deficiency in grazing-adapted grasses from the Serengeti Plains. <i>Oecologia</i> , <b>1989</b> , 79, 551-557	2.9	84

43	Source-Sink Carbon Relations in Two Panicum Coloratum Ecotypes in Response to Herbivory. <i>Ecology</i> , <b>1991</b> , 72, 1472-1483	4.6	82
42	Carbon partitioning patterns of mycorrhizal versus non-mycorrhizal plants: real-time dynamic measurements using CO. <i>New Phytologist</i> , <b>1989</b> , 112, 489-493	9.8	80
41	The effects of clipping, nitrogen source and nitrogen concentration on the growth responses and nitrogen uptake of an east african sedge. <i>Oecologia</i> , <b>1983</b> , 59, 253-261	2.9	80
40	Compensatory Photosynthetic Responses of Three African Graminoids to Different Fertilization, Watering, and Clipping Regimes. <i>Botanical Gazette</i> , <b>1984</b> , 145, 151-156		80
39	Heavy Metal Tolerance in Typha Latifolia without the Evolution of Tolerant Races. <i>Ecology</i> , <b>1974</b> , 55, 1163-1165	4.6	76
38	Simulated Effects of Grazing on Soil Nitrogen and Mineralization in Contrasting Serengeti Grasslands. <i>Ecology</i> , <b>1992</b> , 73, 1105-1123	4.6	75
37	Responses of an African graminoid (Themeda triandra Forsk.) to frequent defoliation, nitrogen, and water: a limit of adaptation to herbivory. <i>Oecologia</i> , <b>1985</b> , 68, 105-110	2.9	69
36	Spatial variation in forage nutrient concentrations and the distribution of Serengeti grazing ungulates. <i>Landscape Ecology</i> , <b>1992</b> , 7, 229-241	4.3	68
35	The propagation of disturbance in savannas through food webs. <i>Journal of Vegetation Science</i> , <b>1992</b> , 3, 301-314	3.1	62
34	Ammonia volatilization and the effects of large grazing mammals on nutrient loss from East African grasslands. <i>Oecologia</i> , <b>1988</b> , 77, 382-386	2.9	59
33	Responses of an African tall-grass (Hyparrhenia filipendula stapf.) to defoliation and limitations of water and nitrogen. <i>Oecologia</i> , <b>1985</b> , 68, 80-86	2.9	53
32	Urea as a promotive coupler of plant-herbivore interactions. <i>Oecologia</i> , <b>1984</b> , 63, 331-337	2.9	44
31	Interactive effect of flooding and grazing on the growth of Serengeti grasses. <i>Oecologia</i> , <b>1991</b> , 88, 153-156		40
30	Photosynthesis and Photorespiration in Typha latifolia. <i>Plant Physiology</i> , <b>1970</b> , 45, 703-7	6.6	37
29	Laboratory-Simulated Grazing: Interactive Effects of Defoliation and Canopy Closure on Serengeti Grasses. <i>Ecology</i> , <b>1992</b> , 73, 170-182	4.6	36
28	COMBUSTION IN NATURAL FIRES AND GLOBAL EMISSIONS BUDGETS <b>1998</b> , 8, 464-468		33
27	Biodiversity and Function of Grazing Ecosystems <b>1994</b> , 361-383		33
26	Tradeoff between height and relative growth rate in a dominant grass from the Serengeti ecosystem. <i>Oecologia</i> , <b>1995</b> , 102, 273-276	2.9	31

25	Simulated effects of precipitation and nitrogen on Serengeti grassland productivity. <i>Biogeochemistry</i> , <b>1993</b> , 22, 157	3.8	27
24	Interactive regulation of grass yield and chemical properties by defoliation, a salivary chemical, and inorganic nutrition. <i>Oecologia</i> , <b>1985</b> , 65, 478-486	2.9	26
23	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> , <b>1985</b> , 72, 222-230	2.7	25
22	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> , <b>1982</b> , 54, 68-71	2.9	25
21	Thermal Inactivation Properties of Enzymes from <i>Typha latifolia</i> L. Ecotypes. <i>Plant Physiology</i> , <b>1966</b> , 41, 1736-8	6.6	25
20	Comparative Photosynthesis of Quebec and California Ecotypes of <i>Typha Latifolia</i> . <i>Ecology</i> , <b>1973</b> , 54, 1260-1270	4.6	24
19	Ecosystem Catalysis: Soil Urease Activity and Grazing in the Serengeti Ecosystem. <i>Oikos</i> , <b>1997</b> , 80, 467	4	23
18	Photosynthetic Adaptability of Two Fern Species of a Northern Hardwood Forest. <i>American Fern Journal</i> , <b>1993</b> , 83, 47	0.6	21
17	Developmental Control of Net Productivity in <i>Typha Latifolia</i> Ecotypes. <i>Ecology</i> , <b>1974</b> , 55, 864-869	4.6	17
16	Differential Enzymatic Activity in Ecological Races of <i>Typha latifolia</i> L. <i>Science</i> , <b>1965</b> , 150, 1829-30	33.3	16
15	Photosynthetic system II: racial differentiation in <i>Typha latifolia</i> . <i>Science</i> , <b>1967</b> , 156, 1363	33.3	14
14	Shoot growth and morphometric analyses of Serengeti graminoids. <i>African Journal of Ecology</i> , <b>1985</b> , 23, 179-194	0.8	13
13	Physiological and Ecological Implications of Herbivory <b>1983</b> , 657-677		13
12	The Use of the <sup>14</sup> C Technique to Measure Plant Responses to Herbivorous Soil Nematodes. <i>Functional Ecology</i> , <b>1991</b> , 5, 810	5.6	11
11	Numerical and temporal relationships in a three-level food chain. <i>Oecologia</i> , <b>1979</b> , 42, 47-56	2.9	11
10	EFFECTS OF CLIPPING AND FOUR LEVELS OF NITROGEN ON THE GAS EXCHANGE, GROWTH, AND PRODUCTION OF TWO EAST AFRICAN GRAMINOIDS <b>1985</b> , 72, 222		10
9	GENETIC AND ENVIRONMENTAL CONTROL OF GLYCOLIC ACID OXIDASE ACTIVITY IN ECOTYPIC POPULATIONS OF <i>TYPHA LATIFOLIA</i> . <i>American Journal of Botany</i> , <b>1969</b> , 56, 37-41	2.7	9
8	Stability and diversity in grassland communities (reply). <i>Nature</i> , <b>1979</b> , 279, 351-352	50.4	7

7	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> , <b>2001</b> , 45, 11-20	5.9	5
6	Comparative foliage and twig chemistry of co-occurring <i>Myrica gale</i> and <i>Chamaedaphne calyculata</i> . <i>Canadian Journal of Botany</i> , <b>1993</b> , 71, 129-135		5
5	Light-stimulated Oxygen Uptake and Glycolic Acid Oxidase in <i>Typha latifolia</i> L. Leaf Disks. <i>Nature</i> , <b>1966</b> , 211, 1197-1198	50.4	5
4	Oxidase Activity in Ecotypic Populations of <i>Typha Latifolia</i> L.. <i>Nature</i> , <b>1966</b> , 211, 1377-1379	50.4	2
3	Definition and quantitation in ecology. <i>Nature</i> , <b>1968</b> , 219, 180-1	50.4	2
2	Measuring Heterotroph-Induced Source-Sink Relationships in <i>Panicum Coloratum</i> with $^{14}C$ Technology <b>1993</b> , 3, 654-665		1
1	Age, location, and stability of ecosystems. <i>Science</i> , <b>1972</b> , 175, 917-8	33.3	