

# Daryl L Moorhead

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

5,218  
citations

109321

35  
h-index

102487

66  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4988  
citing authors

#	ARTICLE	IF	CITATIONS
1	A THEORETICAL MODEL OF LITTER DECAY AND MICROBIAL INTERACTION. <i>Ecological Monographs</i> , 2006, 76, 151-174.	5.4	699
2	Carbon use efficiency of microbial communities: stoichiometry, methodology and modelling. <i>Ecology Letters</i> , 2013, 16, 930-939.	6.4	627
3	Antarctic climate cooling and terrestrial ecosystem response. <i>Nature</i> , 2002, 415, 517-520.	27.8	399
4	Vector analysis of coenzyme activities reveal constraints on coupled C, N and P dynamics. <i>Soil Biology and Biochemistry</i> , 2016, 93, 1-7.	8.8	344
5	Stoichiometry of microbial carbon use efficiency in soils. <i>Ecological Monographs</i> , 2016, 86, 172-189.	5.4	253
6	A theoretical model of C- and N-acquiring exoenzyme activities, which balances microbial demands during decomposition. <i>Soil Biology and Biochemistry</i> , 2012, 53, 133-141.	8.8	149
7	Physical Controls on the Taylor Valley Ecosystem, Antarctica. <i>BioScience</i> , 1999, 49, 961-971.	4.9	147
8	Extracellular enzyme kinetics scale with resource availability. <i>Biogeochemistry</i> , 2014, 121, 287-304.	3.5	147
9	The Millennial model: in search of measurable pools and transformations for modeling soil carbon in the new century. <i>Biogeochemistry</i> , 2018, 137, 51-71.	3.5	139
10	Physical Controls on the Taylor Valley Ecosystem, Antarctica. <i>BioScience</i> , 1999, 49, 961.	4.9	128
11	Inorganic N and P dynamics of Antarctic glacial meltwater streams as controlled by hyporheic exchange and benthic autotrophic communities. <i>Journal of the North American Benthological Society</i> , 2004, 23, 171-188.	3.1	124
12	Eco-enzymatic stoichiometry and enzymatic vectors reveal differential C, N, P dynamics in decaying litter along a land-use gradient. <i>Biogeochemistry</i> , 2016, 129, 21-36.	3.5	106
13	Effects of increasing ultraviolet B radiation on decomposition and soil organic matter dynamics: a synthesis and modelling study. <i>Biology and Fertility of Soils</i> , 1994, 18, 19-26.	4.3	87
14	A general model of litter decomposition in the northern Chihuahuan Desert. <i>Ecological Modelling</i> , 1991, 56, 197-219.	2.5	85
15	Ecological Legacies: Impacts on Ecosystems of the McMurdo Dry Valleys. <i>BioScience</i> , 1999, 49, 1009-1019.	4.9	80
16	Organic matter and soil biota of upland wetlands in Taylor Valley, Antarctica. <i>Polar Biology</i> , 2003, 26, 567-576.	1.2	72
17	Impact of fine litter chemistry on lignocellulolytic enzyme efficiency during decomposition of maize leaf and root in soil. <i>Biogeochemistry</i> , 2014, 117, 169-183.	3.5	65
18	Scaling microbial biomass, metabolism and resource supply. <i>Biogeochemistry</i> , 2015, 122, 175-190.	3.5	65

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19	Simulated patterns of litter decay predict patterns of extracellular enzyme activities. <i>Applied Soil Ecology</i> , 2000, 14, 71-79.	4.3	64
20	Stoichiometric models of microbial metabolic limitation in soil systems. <i>Global Ecology and Biogeography</i> , 2021, 30, 2297-2311.	5.8	64
21	Mechanisms of surface litter mass loss in the northern Chihuahuan desert: a reinterpretation. <i>Journal of Arid Environments</i> , 1989, 16, 157-163.	2.4	63
22	Decomposition processes: modelling approaches and applications. <i>Science of the Total Environment</i> , 1996, 183, 137-149.	8.0	63
23	Plant, microbial and ecosystem carbon use efficiencies interact to stabilize microbial growth as a fraction of gross primary production. <i>New Phytologist</i> , 2017, 214, 1518-1526.	7.3	62
24	The relationship between rates of lignin and cellulose decay in aboveground forest litter. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2620-2626.	8.8	60
25	Interactions between leaf litter quality, particle size, and microbial community during the earliest stage of decay. <i>Biogeochemistry</i> , 2014, 117, 153-168.	3.5	59
26	Ecological Legacies: Impacts on Ecosystems of the McMurdo Dry Valleys. <i>BioScience</i> , 1999, 49, 1009.	4.9	58
27	Microbial substrate preference and community dynamics during decomposition of <i>Acer saccharum</i> . <i>Fungal Ecology</i> , 2011, 4, 396-407.	1.6	57
28	Soil respiration response to prescribed burning and thinning in mixed-conifer and hardwood forests. <i>Canadian Journal of Forest Research</i> , 2005, 35, 1581-1591.	1.7	56
29	Elevated CO <sub>2</sub> alters belowground exoenzyme activities in tussock tundra. <i>Plant and Soil</i> , 1997, 189, 321-329.	3.7	50
30	Calculating co-metabolic costs of lignin decay and their impacts on carbon use efficiency. <i>Soil Biology and Biochemistry</i> , 2013, 66, 17-19.	8.8	47
31	Soil enzymes in response to climate warming: Mechanisms and feedbacks. <i>Functional Ecology</i> , 2022, 36, 1378-1395.	3.6	44
32	Succession of Macroinvertebrates in Playas of the Southern High Plains, USA. <i>Journal of the North American Benthological Society</i> , 1998, 17, 430-442.	3.1	40
33	Decreasing microbial phosphorus limitation increases soil carbon release. <i>Geoderma</i> , 2022, 419, 115868.	5.1	39
34	Effects of elevated pH and phosphorus fertilizer on soil C, N and P enzyme stoichiometry in an acidic mixed mesophytic deciduous forest. <i>Soil Biology and Biochemistry</i> , 2020, 150, 107996.	8.8	38
35	Development of Corpora Lutea and Plasma Progesterone Levels Associated with the Onset of the Breeding Season in White-tailed Deer ( <i>Odocoileus virginianus</i> ). <i>Biology of Reproduction</i> , 1980, 22, 185-191.	2.7	36
36	Effects of Climate Change on Decomposition in Arctic Tussock Tundra: A Modeling Synthesis. <i>Arctic and Alpine Research</i> , 1993, 25, 403.	1.3	34

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37	Modelling the contribution of benthic microbial mats to net primary production in Lake Hoare, McMurdo Dry Valleys. <i>Antarctic Science</i> , 2005, 17, 33-45.	0.9	31
38	The contribution of abiotic processes to buried litter decomposition in the northern Chihuahuan desert. <i>Oecologia</i> , 1989, 79, 133-135.	2.0	30
39	Distribution and life-cycle of <i>Scottnema lindsayae</i> (Nematoda) in Antarctic soils: a modeling analysis of temperature responses. <i>Polar Biology</i> , 2002, 25, 118-125.	1.2	30
40	The geochemistry of upland ponds, Taylor Valley, Antarctica. <i>Antarctic Science</i> , 2012, 24, 3-14.	0.9	30
41	Mixed litter decomposition in a managed Missouri Ozark forest ecosystem. <i>Forest Ecology and Management</i> , 2009, 257, 688-694.	3.2	29
42	Estimating relative cellulolytic and ligninolytic enzyme activities as functions of lignin and cellulose content in decomposing plant litter. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107689.	8.8	28
43	Plants retard litter decay in a nutrient-limited soil: a case of exploitative competition?. <i>Oecologia</i> , 1998, 113, 530-536.	2.0	27
44	Field and lab conditions alter microbial enzyme and biomass dynamics driving decomposition of the same leaf litter. <i>Frontiers in Microbiology</i> , 2013, 4, 260.	3.5	27
45	Estimating microbial carbon use efficiency in soil: Isotope-based and enzyme-based methods measure fundamentally different aspects of microbial resource use. <i>Soil Biology and Biochemistry</i> , 2022, 169, 108677.	8.8	26
46	Interacting Microbe and Litter Quality Controls on Litter Decomposition: A Modeling Analysis. <i>PLoS ONE</i> , 2014, 9, e108769.	2.5	25
47	Effect of atrazine on the productivity of artificial stream algal communities. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1986, 37, 330-336.	2.7	24
48	Effects of timber harvest on carbon pools in Ozark forests. <i>Canadian Journal of Forest Research</i> , 2007, 37, 2337-2348.	1.7	23
49	A modeling study of soil temperature and moisture effects on population dynamics of <i>Paronychiurus kimi</i> (Collembola: Onychiuridae). <i>Biology and Fertility of Soils</i> , 2006, 43, 69-75.	4.3	22
50	The evolution and application of the reverse Michaelis-Menten equation. <i>Soil Biology and Biochemistry</i> , 2018, 125, 261-262.	8.8	22
51	Freshwater mussel community response to warm water discharge in western Lake Erie. <i>Journal of Great Lakes Research</i> , 2013, 39, 449-454.	1.9	18
52	Density-dependent habitat selection: evaluating isoleg theory with a Lotka-Volterra model. <i>Oikos</i> , 2002, 97, 184-194.	2.7	17
53	PATTERNS OF STRATIFIED SOIL WATER LOSS IN A CHIHUAHUAN DESERT COMMUNITY. <i>Soil Science</i> , 1989, 148, 244-249.	0.9	16
54	Environmental Factors Associated with Deep Chlorophyll Maxima in Dry Valley Lakes, South Victoria Land, Antarctica. <i>Arctic, Antarctic, and Alpine Research</i> , 2006, 38, 179-189.	1.1	16

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55	Respiratory carbon losses in a managed oak forest ecosystem. <i>Forest Ecology and Management</i> , 2012, 279, 1-10.	3.2	16
56	Impact of light regimes on productivity patterns of benthic microbial mats in an antarctic lake: A modeling study. <i>Limnology and Oceanography</i> , 1997, 42, 1561-1569.	3.1	15
57	Population Dynamics of <i>Culex restuans</i> and <i>Culex pipiens</i> (Diptera: Culicidae) Related to Climatic Factors in Northwest Ohio. <i>Environmental Entomology</i> , 2015, 44, 1022-1028.	1.4	14
58	Feeding Preference of an Aquatic Gastropod, <i>Marisa cornuarietis</i> : Effects of Pre-Exposure. <i>Journal of the North American Benthological Society</i> , 1993, 12, 431-437.	3.1	13
59	Extracellular Acid Phosphatase Activities in <i>Eriophorum vaginatum</i> Tussocks: A Modeling Synthesis. <i>Arctic and Alpine Research</i> , 1993, 25, 50.	1.3	12
60	The impact of anhydrobiosis on the persistence of <i>Scottnema lindsayae</i> (Nematoda): a modeling analysis of population stability thresholds. <i>Polar Biology</i> , 2004, 27, 507.	1.2	11
61	Differential Responses of Soil Extracellular Enzyme Activities to Salinization: Implications for Soil Carbon Cycling in Tidal Wetlands. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	11
62	Mesoscale Dynamics of Ephemeral Wetlands in the Antarctic Dry Valleys: Implications to Production and Distribution of Organic Matter. <i>Ecosystems</i> , 2007, 10, 87-95.	3.4	10
63	Diversity analysis of water sources, uses, and flows from source to use in the USA. <i>Science of the Total Environment</i> , 2019, 652, 1409-1415.	8.0	10
64	Progressively decreased nitrogen-stimulation of soil phosphatase activity with long-term nitrogen addition. <i>Applied Soil Ecology</i> , 2022, 169, 104213.	4.3	8
65	Habitat characteristics of a unionid refuge in the thermal plume of a power plant in western Lake Erie. <i>Journal of Great Lakes Research</i> , 2014, 40, 699-704.	1.9	4
66	A THEORETICAL MODEL OF LITTER DECAY AND MICROBIAL INTERACTION. , 2006, 76, 151.		2
67	Simulation Studies of Ideal Free Distribution and Competition. <i>Israel Journal of Ecology and Evolution</i> , 2008, 54, 329-344.	0.6	1