

Richard E Farrell

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,505
citations

218677

26
h-index

206112

48
g-index

65
all docs

65
docs citations

65
times ranked

3070
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic residue and agricultural lime interactions on CO ₂ emissions from two contrasting soils: implications for carbon management in acid soils. <i>Journal of Soils and Sediments</i> , 2021, 21, 172-188.	3.0	11
2	Crop residues contribute minimally to spring-thaw nitrous oxide emissions under contrasting tillage and crop rotations. <i>Soil Biology and Biochemistry</i> , 2021, 152, 108057.	8.8	11
3	Type of pulse crop included in a 2-year rotation with wheat affects total N ₂ O loss and intensity. <i>Biology and Fertility of Soils</i> , 2021, 57, 699-713.	4.3	0
4	Contribution of crop residue, soil, and fertilizer nitrogen to nitrous oxide emissions varies with long-term crop rotation and tillage. <i>Science of the Total Environment</i> , 2021, 767, 145107.	8.0	16
5	Spatial variation of nitrous oxide fluxes during growing and non-growing seasons at a location subjected to seasonally frozen soils. <i>Canadian Journal of Soil Science</i> , 2021, 101, 555-564.	1.2	5
6	Short-term effects of aglime on inorganic- and organic-derived CO ₂ emissions from two acid soils amended with an ammonium-based fertiliser. <i>Journal of Soils and Sediments</i> , 2020, 20, 52-65.	3.0	5
7	Tracing crop residue N into subsequent crops: Insight from long-term crop rotations that vary in diversity. <i>Field Crops Research</i> , 2020, 255, 107904.	5.1	19
8	A side-by-side comparison of biological nitrogen fixation and yield of four legume crops. <i>Plant and Soil</i> , 2019, 442, 169-182.	3.7	20
9	A new look at an old concept: using $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ isotopomers to understand the relationship between soil moisture and N_2O production pathways. <i>Soil</i> , 2019, 5, 265-274.	4.9	38
10	Dynamics of soil-derived greenhouse gas emissions from shelterbelts under elevated soil moisture conditions in a semi-arid prairie environment. <i>Agroforestry Systems</i> , 2018, 92, 321.	2.0	2
11	Current inventory approach overestimates the effect of irrigated crop management on soil-derived greenhouse gas emissions in the semi-arid Canadian Prairies. <i>Agricultural Water Management</i> , 2018, 208, 19-32.	5.6	14
12	Petroleum hydrocarbon remediation in frozen soil using a meat and bonemeal biochar plus fertilizer. <i>Chemosphere</i> , 2017, 173, 330-339.	8.2	42
13	Greenhouse gas emissions along a shelterbelt-cropped field transect. <i>Agriculture, Ecosystems and Environment</i> , 2017, 241, 110-120.	5.3	12
14	Effects of Dolomitic Limestone Application on Zinc Speciation in Boreal Forest Smelter-Contaminated Soils. <i>Journal of Environmental Quality</i> , 2016, 45, 1894-1900.	2.0	3
15	Characterizing Zinc Speciation in Soils from a Smelter-Affected Boreal Forest Ecosystem. <i>Journal of Environmental Quality</i> , 2016, 45, 684-692.	2.0	24
16	Greenhouse gas mitigation potential of shelterbelts: estimating farm-scale emission reductions using the Holos model. <i>Canadian Journal of Soil Science</i> , 2016, . .	1.2	6
17	Soil-atmosphere exchange of carbon dioxide, methane and nitrous oxide in shelterbelts compared with adjacent cropped fields. <i>Agriculture, Ecosystems and Environment</i> , 2016, 223, 123-134.	5.3	51
18	Rapid Root Decomposition Decouples Root Length from Increased Soil C Following Grassland Invasion. <i>Ecosystems</i> , 2015, 18, 1307-1318.	3.4	6

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19	Manipulation of rhizosphere organisms to enhance glomalin production and C sequestration: Pitfalls and promises. <i>Canadian Journal of Plant Science</i> , 2014, 94, 1025-1032.	0.9	23
20	Differentiating between the supply of N to wheat from above and belowground residues of preceding crops of pea and canola. <i>Biology and Fertility of Soils</i> , 2014, 50, 563-570.	4.3	33
21	Nitrogen supply from belowground residues of lentil and wheat to a subsequent wheat crop. <i>Biology and Fertility of Soils</i> , 2014, 50, 507-515.	4.3	30
22	Greenhouse gas production and consumption in High Arctic deserts. <i>Soil Biology and Biochemistry</i> , 2014, 68, 158-165.	8.8	28
23	Greenhouse gas flux in a temperate grassland as affected by landform and disturbance. <i>Landscape Ecology</i> , 2013, 28, 709-723.	4.2	16
24	Estimating belowground nitrogen inputs of pea and canola and their contribution to soil inorganic N pools using ¹⁵ N labeling. <i>Plant and Soil</i> , 2013, 371, 67-80.	3.7	32
25	Advances in Understanding Organic Nitrogen Chemistry in Soils Using State-of-the-art Analytical Techniques. <i>Advances in Agronomy</i> , 2013, 119, 83-151.	5.2	46
26	Effects of edaphic conditions on site quality for <i>Salix purpurea</i> "Hotel" plantations across a large climatic gradient in Canada. <i>New Forests</i> , 2013, 44, 899-918.	1.7	12
27	Temporal dynamics of nitrogen rhizodeposition in field pea as determined by ¹⁵ N labeling. <i>Canadian Journal of Plant Science</i> , 2013, 93, 941-950.	0.9	15
28	Early Effects of Afforestation with Willow (<i>Salix purpurea</i> , "Hotel") on Soil Carbon and Nutrient Availability. <i>Forests</i> , 2013, 4, 137-154.	2.1	26
29	Plant root exudates impact the hydrocarbon degradation potential of a weathered-hydrocarbon contaminated soil. <i>Applied Soil Ecology</i> , 2012, 52, 56-64.	4.3	119
30	Comparison of human exposure pathways in an urban brownfield: Reduced risk from paving roads. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 2423-2430.	4.3	13
31	Intercropping <i>Caragana arborescens</i> with <i>Salix miyabeana</i> to Satisfy Nitrogen Demand and Maximize Growth. <i>Bioenergy Research</i> , 2012, 5, 719-732.	3.9	25
32	N ₂ O flux from plant-soil systems in polar deserts switch between sources and sinks under different light conditions. <i>Soil Biology and Biochemistry</i> , 2012, 48, 69-77.	8.8	29
33	Greenhouse gas soil production and surface fluxes at a high arctic polar oasis. <i>Soil Biology and Biochemistry</i> , 2012, 52, 1-12.	8.8	47
34	Nitrous Oxide Emissions from Ephemeral Wetland Soils are Correlated with Microbial Community Composition. <i>Frontiers in Microbiology</i> , 2011, 2, 110.	3.5	19
35	Glomalin-related soil protein contains non-mycorrhizal-related heat-stable proteins, lipids and humic materials. <i>Soil Biology and Biochemistry</i> , 2011, 43, 766-777.	8.8	156
36	XANES and Pyrolysis-FIMS Evidence of Organic Matter Composition in a Hummocky Landscape. <i>Soil Science Society of America Journal</i> , 2011, 75, 1741-1755.	2.2	26

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37	Repeat pulse ¹³ CO ₂ labeling of canola and field pea: implications for soil organic matter studies. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2791-2798.	1.5	22
38	Landscape controls on N ₂ O and CH ₄ emissions from freshwater mineral soil wetlands of the Canadian Prairie Pothole region. <i>Geoderma</i> , 2010, 155, 308-319.	5.1	97
39	Nitrifier dominance of Arctic soil nitrous oxide emissions arises due to fungal competition with denitrifiers for nitrate. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1104-1110.	8.8	58
40	Rapid biomass estimation using optical stem density of willow (<i>Salix</i> spp.) grown in short rotation. <i>Biomass and Bioenergy</i> , 2009, 33, 174-179.	5.7	10
41	Does expansion of western snowberry enhance ecosystem carbon sequestration and storage in Canadian Prairies?. <i>Agriculture, Ecosystems and Environment</i> , 2009, 134, 269-276.	5.3	14
42	Field-scale assessment of weathered hydrocarbon degradation by mixed and single plant treatments. <i>Applied Soil Ecology</i> , 2009, 42, 9-17.	4.3	83
43	Profiling Rhizosphere Chemistry: Evidence from Carbon and Nitrogen K-edge XANES and Pyrolysis-FIMS. <i>Soil Science Society of America Journal</i> , 2009, 73, 2002-2012.	2.2	31
44	Calibration method at the N K-edge using interstitial nitrogen gas in solid-state nitrogen-containing inorganic compounds. <i>Journal of Synchrotron Radiation</i> , 2008, 15, 532-534.	2.4	42
45	Relationship between nitrifier and denitrifier community composition and abundance in predicting nitrous oxide emissions from ephemeral wetland soils. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1114-1123.	8.8	112
46	Hydrocarbon degradation potential and activity of endophytic bacteria associated with prairie plants. <i>Soil Biology and Biochemistry</i> , 2008, 40, 3054-3064.	8.8	137
47	Soil Formate Regulates the Fungal Nitrous Oxide Emission Pathway. <i>Applied and Environmental Microbiology</i> , 2008, 74, 6690-6696.	3.1	37
48	Assessing spatial distribution and joint uncertainty of TPH-fractions: Indicator kriging and sequential indicator simulation. <i>Canadian Journal of Soil Science</i> , 2007, 87, 551-563.	1.2	1
49	Upslope length improves spatial estimation of soil organic carbon content. <i>Canadian Journal of Soil Science</i> , 2007, 87, 291-300.	1.2	10
50	Assessing the potential of ammonia oxidizing bacteria to produce nitrous oxide in soils of a high arctic lowland ecosystem on Devon Island, Canada. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2001-2013.	8.8	86
51	Probability Distribution and Spatial Dependence of Nitrous Oxide Emission. <i>Soil Science Society of America Journal</i> , 2006, 70, 753-762.	2.2	88
52	Wavelet Spectra of Nitrous Oxide Emission from Hummocky Terrain during Spring Snowmelt. <i>Soil Science Society of America Journal</i> , 2006, 70, 1110-1120.	2.2	29
53	Influence of montmorillonite layered silicate on plasticized poly(l-lactide) blown films. <i>Polymer</i> , 2005, 46, 11716-11727.	3.8	227
54	Characterizing spatial and temporal variations in CO ₂ fluxes from ground surface using three complimentary measurement techniques. <i>Journal of Hydrology</i> , 2005, 311, 80-90.	5.4	17

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55	Plant-Assisted Degradation of Phenanthrene as Assessed by Solid-Phase Microextraction (SPME). International Journal of Phytoremediation, 2004, 6, 253-268.	3.1	13
56	Natural revegetation of hydrocarbon-contaminated soil in semi-arid grasslands. Canadian Journal of Botany, 2004, 82, 22-30.	1.1	35
57	Hydrocarbon Tolerance Correlates with Seed Mass and Relative Growth Rate. Bioremediation Journal, 2004, 8, 185-199.	2.0	12
58	Ability of Cold-Tolerant Plants to Grow in Hydrocarbon-Contaminated Soil. International Journal of Phytoremediation, 2003, 5, 105-123.	3.1	30
59	AN INTER-LABORATORY COMPARISON OF NITROUS OXIDE ANALYSIS IN WESTERN CANADA. Communications in Soil Science and Plant Analysis, 2002, 33, 2705-2713.	1.4	2
60	Title is missing!. Journal of Polymers and the Environment, 2000, 8, 81-89.	5.0	3
61	Processing, performance and biodegradability of a thermoplastic aliphatic polyester/starch system. Polymer, 1999, 40, 6777-6788.	3.8	200
62	Effects of cultivation on the activity and kinetics of arylsulfatase in Saskatchewan soils. Soil Biology and Biochemistry, 1994, 26, 1033-1040.	8.8	34
63	Recycling of the naturally-occurring ¹⁵ N In an established stand of <i>Leucaena leucocephala</i> . Soil Biology and Biochemistry, 1994, 26, 757-762.	8.8	69
64	Construction and evaluation of a reference electrode assembly for use in monitoring <i>in situ</i> soil redox potentials. Communications in Soil Science and Plant Analysis, 1991, 22, 1059-1068.	1.4	20
65	Construction and evaluation of a potassium-selective tube-mounted membrane electrode. Talanta, 1984, 31, 1005-1007.	5.5	6