Barbara J Cade-Menun

List of Publications by Year in Descending Order

80 papers	3,736 citations	37 h-index	60 g-index
85 ext. papers	4,356 ext. citations	3.9 avg, IF	5.79 L-index

#	Paper	IF	Citations
80	Land use and landscape position influence soil organic phosphorus speciation in a mixed land use watershed. *Journal of Environmental Quality*, **2021**, 50, 967-978	3.4	0
79	Soil Phosphorus Speciation and Availability in Meadows and Forests in Alpine Lake Watersheds With Different Parent Materials. *Frontiers in Forests and Global Change*, **2021**, 3,	3.7	1
78	The influence of long-term N and P fertilization on soil P forms and cycling in a wheat/fallow cropping system. *Geoderma*, **2021**, 404, 115274	6.7	1
77	The chemical nature of soil phosphorus in response to long-term fertilization practices: Implications for sustainable phosphorus management. *Journal of Cleaner Production*, **2020**, 272, 123093	10.3	12
76	Long-term effects of nitrogen and phosphorus fertilization on soil microbial community structure and function under continuous wheat production. *Environmental Microbiology*, **2020**, 22, 1066-1088	5.2	37
75	Soil Phosphorus Dynamics Across a Holocene Chronosequence of Aeolian Sand Dunes in a Hypermaritime Environment on Calvert Island, BC, Canada. *Frontiers in Forests and Global Change*, **2020**, 3,	3.7	2
74	Nitrogen application favors soil organic phosphorus accumulation in calcareous vegetable fields. *Biology and Fertility of Soils*, **2019**, 55, 481-496	6.1	15
73	Potential Phosphorus Export in Snowmelt as Influenced by Fertilizer Placement Method in the Canadian Prairies. *Journal of Environmental Quality*, **2019**, 48, 586-593	3.4	7
72	A31P-NMR spectroscopic study of phosphorus forms in two phosphorus-fertilized grassland soils in eastern Canada. *Canadian Journal of Soil Science*, **2019**, 99, 161-172	1.4	6
71	Molecular-level understanding of phosphorus transformation with long-term phosphorus addition and depletion in an alkaline soil. *Geoderma*, **2019**, 353, 116-124	6.7	20
70	Phosphorus acquisition by citrate- and phytase-exuding Nicotiana tabacum plant mixtures depends on soil phosphorus availability and root intermingling. *Physiologia Plantarum*, **2018**, 163, 356	4.6	26
69	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. *Geochemical Transactions*, **2018**, 19, 7	3	15
68	Organic Phosphorus Forms in Agricultural Soils under Mediterranean Climate. *Soil Science Society of America Journal*, **2018**, 82, 783-795	2.5	8
67	Long-Term Land Use Affects Phosphorus Speciation and the Composition of Phosphorus Cycling Genes in Agricultural Soils. *Frontiers in Microbiology*, **2018**, 9, 1643	5.7	27
66	Phosphorus Forms in Sediments of a River-Dominated Estuary. *Frontiers in Marine Science*, **2018**, 5,	4.5	10
65	Phosphorus Leaching from Soil Cores from a Twenty-Year Study Evaluating Alum Treatment of Poultry Litter. *Journal of Environmental Quality*, **2018**, 47, 530-537	3.4	10
64	The Contrasting Effects of Alum-Treated Chicken Manures and KH2PO4 on Phosphorus Behavior in Soils. *Journal of Environmental Quality*, **2018**, 47, 345-352	3.4	2

63	Characterizing phosphorus forms in cropland soils with solution 31P-NMR: past studies and future research needs. *Chemical and Biological Technologies in Agriculture*, **2017**, 4,	4.4	31
62	A new solution 31P NMR sample preparation scheme for marine sediments. *Limnology and Oceanography: Methods*, **2017**, 15, 381-393	2.6	6
61	Colloid-bound and dissolved phosphorus species in topsoil water extracts along a grassland transect from Cambisol to Stagnosol. *Biogeosciences*, **2017**, 14, 1153-1164	4.6	24
60	Soil organic phosphorus transformations during 2000 years of paddy-rice and non-paddy management in the Yangtze River Delta, China. *Scientific Reports*, **2017**, 7, 10818	4.9	4
59	Long-term Changes in Grassland Soil Phosphorus with Fertilizer Application and Withdrawal. *Journal of Environmental Quality*, **2017**, 46, 537-545	3.4	20
58	Pollutant and Soil Types Influence Effectiveness of Soil-Applied Absorbents in Reducing Rice Plant Uptake of Persistent Organic Pollutants. *Pedosphere*, **2017**, 27, 537-547	5	6
57	Hydrological modeling of the pipestone creek watershed using the Soil Water Assessment Tool (SWAT): Assessing impacts of wetland drainage on hydrology. *Journal of Hydrology: Regional Studies* , **2017**, 14, 109-129	3.6	14
56	Molecular speciation and transformation of soil legacy phosphorus with and without long-term phosphorus fertilization: Insights from bulk and microprobe spectroscopy. *Scientific Reports*, **2017**, 7, 15354	4.9	22
55	Long-term agricultural land use affects chemical and physical properties of soils from Southwest Saskatchewan. *Canadian Journal of Soil Science*, **2017**,	1.4	7
54	Visible near infrared reflectance spectroscopy to predict soil phosphorus pools in chernozems of Saskatchewan, Canada. *Geoderma Regional*, **2016**, 7, 93-101	2.7	13
53	Impact of annual and single application of alkaline treated biosolids on soil extractable phosphorus and total phosphorus. *Agriculture, Ecosystems and Environment*, **2016**, 219, 111-118	5.7	13
52	Soil Phosphorus Forms from Organic and Conventional Forage Fields. *Soil Science Society of America Journal*, **2016**, 80, 328-340	2.5	57
51	Electron Donor Substances and Iron Oxides Stimulate Anaerobic Dechlorination of DDT in a Slurry System with Hydragric Acrisols. *Journal of Environmental Quality*, **2016**, 45, 331-40	3.4	3
50	Phosphorus Speciation in Calcareous Soils Following Annual Dairy Manure Amendments. *Soil Science Society of America Journal*, **2016**, 80, 1531-1542	2.5	29
49	Compositional statistical analysis of soil 31P-NMR forms. *Geoderma*, **2015**, 257-258, 40-47	6.7	26
48	The short-term transport and transformation of phosphorus species in a saturated soil following poultry manure amendment and leaching. *Geoderma*, **2015**, 257-258, 134-141	6.7	25
47	Investigation of soil legacy phosphorus transformation in long-term agricultural fields using sequential fractionation, P K-edge XANES and solution P NMR spectroscopy. *Environmental Science & Technology*, **2015**, 49, 168-76	10.3	96
46	Stratification of Phosphorus Forms from Long-Term Conservation Tillage and Poultry Litter Application. *Soil Science Society of America Journal*, **2015**, 79, 504-516	2.5	33

45	Chemistry and Dynamics of Soil Organic Phosphorus. *Agronomy*, **2015**, 87-121	0.8	53
44	Characterization of Organic Phosphorus Form and Bioavailability in Lake Sediments using P Nuclear Magnetic Resonance and Enzymatic Hydrolysis. *Journal of Environmental Quality*, **2015**, 44, 882-94	3.4	32
43	Comparison of Phosphorus Forms in Three Extracts of Dairy Feces by Solution 31P NMR Analysis. *Communications in Soil Science and Plant Analysis*, **2015**, 46, 1698-1712	1.5	9
42	Improved peak identification in 31P-NMR spectra of environmental samples with a standardized method and peak library. *Geoderma*, **2015**, 257-258, 102-114	6.7	111
41	Phosphorus speciation in a eutrophic lake by □□P NMR spectroscopy. *Water Research*, **2014**, 62, 229-40	12.5	57
40	Long-term impact of tillage practices and phosphorus fertilization on soil phosphorus forms as determined by p nuclear magnetic resonance spectroscopy. *Journal of Environmental Quality*, **2014**, 43, 1431-41	3.4	55
39	Molecular Speciation of Phosphorus Present in Readily Dispersible Colloids from Agricultural Soils. *Soil Science Society of America Journal*, **2014**, 78, 47-53	2.5	59
38	Solution Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy of Soils from 2005 to 2013: A Review of Sample Preparation and Experimental Parameters. *Soil Science Society of America Journal* , **2014**, 78, 19-37	2.5	158
37	Phosphorus Transformations from Reclaimed Wastewater to Irrigated Soil: A 31P NMR Study. *Soil Science Society of America Journal*, **2014**, 78, 1884-1892	2.5	7
36	Phosphorus Forms and Mineralization Potentials of Alabama Upland Cotton Production Soils Amended with Poultry Litter **2014**, 191-209		7
35	Phytate in Animal Manure and Soils: Abundance, Cycling and Bioavailability **2014**, 163-190		12
34	Phosphorus Speciation in Riparian Soils: A Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy and Enzyme Hydrolysis Study. *Soil Science Society of America Journal*, **2013**, 77, 1636-1647	2.5	59
33	Freeze□haw cycles and soil water content effects on infiltration rate of three Saskatchewan soils. *Canadian Journal of Soil Science*, **2013**, 93, 485-496	1.4	33
32	Complementary Phosphorus Speciation in Agricultural Soils by Sequential Fractionation, Solution P Nuclear Magnetic Resonance, and Phosphorus K-edge X-ray Absorption Near-Edge Structure Spectroscopy. *Journal of Environmental Quality*, **2013**, 42, 1763-70	3.4	57
31	Nutrient loss from Saskatchewan cropland and pasture in spring snowmelt runoff. *Canadian Journal of Soil Science*, **2013**, 93, 445-458	1.4	49
30	The inositol phosphates in soils and manures: Abundance, cycling, and measurement. *Canadian Journal of Soil Science*, **2011**, 91, 397-416	1.4	61
29	INTEGRATING TERRESTRIAL AND AQUATIC P SCIENCE: EMERGING ISSUES WORKSHOP REPORT. *Limnology and Oceanography Bulletin*, **2011**, 20, 39-40	0.9	
28	Forms and Lability of Phosphorus in Humic Acid Fractions of Hord Silt Loam Soil. *Soil Science Society of America Journal*, **2011**, 75, 1712-1722	2.5	63

27	Phosphorus forms and chemistry in the soil profile under long-term conservation tillage: a phosphorus-31 nuclear magnetic resonance study. *Journal of Environmental Quality*, **2010**, 39, 1647-56	3.4	92
26	Nutrient temperature and light stress alter phosphorus and carbon forms in culture-grown algae. *Marine Chemistry*, **2010**, 121, 27-36	3.7	60
25	Phosphorus forms in conventional and organic dairy manure identified by solution and solid state p-31 NMR spectroscopy. *Journal of Environmental Quality*, **2009**, 38, 1909-18	3.4	40
24	Characterization of plant-derived water extractable organic matter by multiple spectroscopic techniques. *Biology and Fertility of Soils*, **2009**, 45, 609-616	6.1	77
23	Phosphorus-31 nuclear magnetic resonance spectroscopy transect study of poultry operations on the Delmarva Peninsula. *Journal of Environmental Quality*, **2009**, 38, 130-8	3.4	39
22	The Diversity of Nuclear Magnetic Resonance Spectroscopy. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2009**, 65-81	0.2	
21	Phosphorus in Poultry Litter and Soil: Enzymatic and Nuclear Magnetic Resonance Characterization. *Soil Science Society of America Journal*, **2008**, 72, 1425-1433	2.5	75
20	Comparison of phosphorus forms in wet and dried animal manures by solution phosphorus-31 nuclear magnetic resonance spectroscopy and enzymatic hydrolysis. *Journal of Environmental Quality*, **2007**, 36, 1086-95	3.4	62
19	Organic phosphorus speciation and pedogenesis: analysis by solution 31P nuclear magnetic resonance spectroscopy. *European Journal of Soil Science*, **2007**, 58, 1348-1357	3.4	73
18	The oxygen isotopic composition of phosphate in Elkhorn Slough, California: A tracer for phosphate sources. *Estuarine, Coastal and Shelf Science*, **2006**, 70, 499-506	2.9	54
17	Characterizing dissolved and particulate phosphorus in water with 31P nuclear magnetic resonance spectroscopy. *Environmental Science & Technology*, **2006**, 40, 7874-80	10.3	106
16	Spectral and Chemical Characterization of Phosphates Associated with Humic Substances. *Soil Science Society of America Journal*, **2006**, 70, 1741-1751	2.5	95
15	Depletion of organic phosphorus from Oxisols in relation to phosphatase activities in the rhizosphere. *European Journal of Soil Science*, **2006**, 57, 47-57	3.4	81
14	Extraction of soil organic phosphorus. *Talanta*, **2005**, 66, 294-306	6.2	290
13	Characterizing phosphorus in environmental and agricultural samples by 31P nuclear magnetic resonance spectroscopy. *Talanta*, **2005**, 66, 359-71	6.2	286
12	Refining 31P nuclear magnetic resonance spectroscopy for marine particulate samples: Storage conditions and extraction recovery. *Marine Chemistry*, **2005**, 97, 293-306	3.7	57
11	Preferential phosphorus leaching from an irrigated grassland soil. *European Journal of Soil Science*, **2005**, 56, 155-168	3.4	58
10	Establishing a linkage between phosphorus forms in dairy diets, feces, and manures. *Journal of Environmental Quality*, **2005**, 34, 1380-91	3.4	66

9	Phosphorus speciation in manure-amended alkaline soils. *Journal of Environmental Quality*, **2004**, 33, 1521-7	3.4	81
8	Organic Phosphorus Composition and Potential Bioavailability in Semi-Arid Arable Soils of the Western United States. *Soil Science Society of America Journal*, **2003**, 67, 1168-1179	2.5	149
7	Characterization of organic phosphorus in leachate from a grassland soil. *Soil Biology and Biochemistry*, **2003**, 35, 1317-1323	7.5	127
6	Selective phosphorus regeneration of sinking marine particles: evidence from 31P-NMR. *Marine Chemistry*, **2003**, 82, 55-70	3.7	119
5	Phosphorus forms and related soil chemistry of Podzolic soils on northern Vancouver Island. II. The effects of clear-cutting and burning. *Canadian Journal of Forest Research*, **2000**, 30, 1726-1741	1.9	54
4	Phosphorus forms and related soil chemistry of Podzolic soils on northern Vancouver Island. I. A comparison of two forest types. *Canadian Journal of Forest Research*, **2000**, 30, 1714-1725	1.9	43
3	Characterization of Canadian Backyard Composts: Chemical and Spectroscopic Analyses. *Compost Science and Utilization*, **1998**, 6, 53-66	1.2	15
2	Response of mycorrhizal western red cedar to organic phosphorus sources and benomyl. *Canadian Journal of Botany*, **1997**, 75, 1226-1235		9
1	Seasonal colonization of winter wheat in South Coastal British Columbia by vesicular□rbuscular mycorrhizal fungi. *Canadian Journal of Botany*, **1991**, 69, 78-86		18