

# Barbara J Cade-Menun

## List of Publications by Citations

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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	Extraction of soil organic phosphorus. <i>Talanta</i> , <b>2005</b> , 66, 294-306	6.2	290
79	Characterizing phosphorus in environmental and agricultural samples by <sup>31</sup> P nuclear magnetic resonance spectroscopy. <i>Talanta</i> , <b>2005</b> , 66, 359-71	6.2	286
78	Solution Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy of Soils from 2005 to 2013: A Review of Sample Preparation and Experimental Parameters. <i>Soil Science Society of America Journal</i> , <b>2014</b> , 78, 19-37	2.5	158
77	Organic Phosphorus Composition and Potential Bioavailability in Semi-Arid Arable Soils of the Western United States. <i>Soil Science Society of America Journal</i> , <b>2003</b> , 67, 1168-1179	2.5	149
76	Characterization of organic phosphorus in leachate from a grassland soil. <i>Soil Biology and Biochemistry</i> , <b>2003</b> , 35, 1317-1323	7.5	127
75	Selective phosphorus regeneration of sinking marine particles: evidence from <sup>31</sup> P-NMR. <i>Marine Chemistry</i> , <b>2003</b> , 82, 55-70	3.7	119
74	Improved peak identification in <sup>31</sup> P-NMR spectra of environmental samples with a standardized method and peak library. <i>Geoderma</i> , <b>2015</b> , 257-258, 102-114	6.7	111
73	Characterizing dissolved and particulate phosphorus in water with <sup>31</sup> P nuclear magnetic resonance spectroscopy. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 7874-80	10.3	106
72	Investigation of soil legacy phosphorus transformation in long-term agricultural fields using sequential fractionation, P K-edge XANES and solution P NMR spectroscopy. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 168-76	10.3	96
71	Spectral and Chemical Characterization of Phosphates Associated with Humic Substances. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 1741-1751	2.5	95
70	Phosphorus forms and chemistry in the soil profile under long-term conservation tillage: a phosphorus-31 nuclear magnetic resonance study. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 1647-56	3.4	92
69	Depletion of organic phosphorus from Oxisols in relation to phosphatase activities in the rhizosphere. <i>European Journal of Soil Science</i> , <b>2006</b> , 57, 47-57	3.4	81
68	Phosphorus speciation in manure-amended alkaline soils. <i>Journal of Environmental Quality</i> , <b>2004</b> , 33, 1521-7	3.4	81
67	Characterization of plant-derived water extractable organic matter by multiple spectroscopic techniques. <i>Biology and Fertility of Soils</i> , <b>2009</b> , 45, 609-616	6.1	77
66	Phosphorus in Poultry Litter and Soil: Enzymatic and Nuclear Magnetic Resonance Characterization. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 1425-1433	2.5	75
65	Organic phosphorus speciation and pedogenesis: analysis by solution <sup>31</sup> P nuclear magnetic resonance spectroscopy. <i>European Journal of Soil Science</i> , <b>2007</b> , 58, 1348-1357	3.4	73
64	Establishing a linkage between phosphorus forms in dairy diets, feces, and manures. <i>Journal of Environmental Quality</i> , <b>2005</b> , 34, 1380-91	3.4	66

63	Forms and Lability of Phosphorus in Humic Acid Fractions of Hord Silt Loam Soil. <i>Soil Science Society of America Journal</i> , <b>2011</b> , 75, 1712-1722	2.5	63
62	Comparison of phosphorus forms in wet and dried animal manures by solution phosphorus-31 nuclear magnetic resonance spectroscopy and enzymatic hydrolysis. <i>Journal of Environmental Quality</i> , <b>2007</b> , 36, 1086-95	3.4	62
61	The inositol phosphates in soils and manures: Abundance, cycling, and measurement. <i>Canadian Journal of Soil Science</i> , <b>2011</b> , 91, 397-416	1.4	61
60	Nutrient temperature and light stress alter phosphorus and carbon forms in culture-grown algae. <i>Marine Chemistry</i> , <b>2010</b> , 121, 27-36	3.7	60
59	Molecular Speciation of Phosphorus Present in Readily Dispersible Colloids from Agricultural Soils. <i>Soil Science Society of America Journal</i> , <b>2014</b> , 78, 47-53	2.5	59
58	Phosphorus Speciation in Riparian Soils: A Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy and Enzyme Hydrolysis Study. <i>Soil Science Society of America Journal</i> , <b>2013</b> , 77, 1636-1647	2.5	59
57	Preferential phosphorus leaching from an irrigated grassland soil. <i>European Journal of Soil Science</i> , <b>2005</b> , 56, 155-168	3.4	58
56	Phosphorus speciation in a eutrophic lake by $^{31}\text{P}$ NMR spectroscopy. <i>Water Research</i> , <b>2014</b> , 62, 229-40	12.5	57
55	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. <i>Journal of Environmental Quality</i> , <b>2013</b> , 42, 1763-70	3.4	57
54	Refining $^{31}\text{P}$ nuclear magnetic resonance spectroscopy for marine particulate samples: Storage conditions and extraction recovery. <i>Marine Chemistry</i> , <b>2005</b> , 97, 293-306	3.7	57
53	Soil Phosphorus Forms from Organic and Conventional Forage Fields. <i>Soil Science Society of America Journal</i> , <b>2016</b> , 80, 328-340	2.5	57
52	Long-term impact of tillage practices and phosphorus fertilization on soil phosphorus forms as determined by p nuclear magnetic resonance spectroscopy. <i>Journal of Environmental Quality</i> , <b>2014</b> , 43, 1431-41	3.4	55
51	The oxygen isotopic composition of phosphate in Elkhorn Slough, California: A tracer for phosphate sources. <i>Estuarine, Coastal and Shelf Science</i> , <b>2006</b> , 70, 499-506	2.9	54
50	Phosphorus forms and related soil chemistry of Podzolic soils on northern Vancouver Island. II. The effects of clear-cutting and burning. <i>Canadian Journal of Forest Research</i> , <b>2000</b> , 30, 1726-1741	1.9	54
49	Chemistry and Dynamics of Soil Organic Phosphorus. <i>Agronomy</i> , <b>2015</b> , 87-121	0.8	53
48	Nutrient loss from Saskatchewan cropland and pasture in spring snowmelt runoff. <i>Canadian Journal of Soil Science</i> , <b>2013</b> , 93, 445-458	1.4	49
47	Phosphorus forms and related soil chemistry of Podzolic soils on northern Vancouver Island. I. A comparison of two forest types. <i>Canadian Journal of Forest Research</i> , <b>2000</b> , 30, 1714-1725	1.9	43
46	Phosphorus forms in conventional and organic dairy manure identified by solution and solid state p-31 NMR spectroscopy. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 1909-18	3.4	40

45	Phosphorus-31 nuclear magnetic resonance spectroscopy transect study of poultry operations on the Delmarva Peninsula. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 130-8	3.4	39
44	Long-term effects of nitrogen and phosphorus fertilization on soil microbial community structure and function under continuous wheat production. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 1066-1088	5.2	37
43	Stratification of Phosphorus Forms from Long-Term Conservation Tillage and Poultry Litter Application. <i>Soil Science Society of America Journal</i> , <b>2015</b> , 79, 504-516	2.5	33
42	Freeze-thaw cycles and soil water content effects on infiltration rate of three Saskatchewan soils. <i>Canadian Journal of Soil Science</i> , <b>2013</b> , 93, 485-496	1.4	33
41	Characterization of Organic Phosphorus Form and Bioavailability in Lake Sediments using P Nuclear Magnetic Resonance and Enzymatic Hydrolysis. <i>Journal of Environmental Quality</i> , <b>2015</b> , 44, 882-94	3.4	32
40	Characterizing phosphorus forms in cropland soils with solution 31P-NMR: past studies and future research needs. <i>Chemical and Biological Technologies in Agriculture</i> , <b>2017</b> , 4,	4.4	31
39	Phosphorus Speciation in Calcareous Soils Following Annual Dairy Manure Amendments. <i>Soil Science Society of America Journal</i> , <b>2016</b> , 80, 1531-1542	2.5	29
38	Long-Term Land Use Affects Phosphorus Speciation and the Composition of Phosphorus Cycling Genes in Agricultural Soils. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 1643	5.7	27
37	Compositional statistical analysis of soil 31P-NMR forms. <i>Geoderma</i> , <b>2015</b> , 257-258, 40-47	6.7	26
36	Phosphorus acquisition by citrate- and phytase-exuding <i>Nicotiana tabacum</i> plant mixtures depends on soil phosphorus availability and root intermingling. <i>Physiologia Plantarum</i> , <b>2018</b> , 163, 356	4.6	26
35	The short-term transport and transformation of phosphorus species in a saturated soil following poultry manure amendment and leaching. <i>Geoderma</i> , <b>2015</b> , 257-258, 134-141	6.7	25
34	Colloid-bound and dissolved phosphorus species in topsoil water extracts along a grassland transect from Cambisol to Stagnosol. <i>Biogeosciences</i> , <b>2017</b> , 14, 1153-1164	4.6	24
33	Molecular speciation and transformation of soil legacy phosphorus with and without long-term phosphorus fertilization: Insights from bulk and microprobe spectroscopy. <i>Scientific Reports</i> , <b>2017</b> , 7, 15354	4.9	22
32	Molecular-level understanding of phosphorus transformation with long-term phosphorus addition and depletion in an alkaline soil. <i>Geoderma</i> , <b>2019</b> , 353, 116-124	6.7	20
31	Long-term Changes in Grassland Soil Phosphorus with Fertilizer Application and Withdrawal. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 537-545	3.4	20
30	Seasonal colonization of winter wheat in South Coastal British Columbia by vesicular-arbuscular mycorrhizal fungi. <i>Canadian Journal of Botany</i> , <b>1991</b> , 69, 78-86		18
29	Nitrogen application favors soil organic phosphorus accumulation in calcareous vegetable fields. <i>Biology and Fertility of Soils</i> , <b>2019</b> , 55, 481-496	6.1	15
28	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. <i>Geochemical Transactions</i> , <b>2018</b> , 19, 7	3	15

27	Characterization of Canadian Backyard Composts: Chemical and Spectroscopic Analyses. <i>Compost Science and Utilization</i> , <b>1998</b> , 6, 53-66	1.2	15
26	Hydrological modeling of the pipestone creek watershed using the Soil Water Assessment Tool (SWAT): Assessing impacts of wetland drainage on hydrology. <i>Journal of Hydrology: Regional Studies</i> , <b>2017</b> , 14, 109-129	3.6	14
25	Visible near infrared reflectance spectroscopy to predict soil phosphorus pools in chernozems of Saskatchewan, Canada. <i>Geoderma Regional</i> , <b>2016</b> , 7, 93-101	2.7	13
24	Impact of annual and single application of alkaline treated biosolids on soil extractable phosphorus and total phosphorus. <i>Agriculture, Ecosystems and Environment</i> , <b>2016</b> , 219, 111-118	5.7	13
23	The chemical nature of soil phosphorus in response to long-term fertilization practices: Implications for sustainable phosphorus management. <i>Journal of Cleaner Production</i> , <b>2020</b> , 272, 123093	10.3	12
22	Phytate in Animal Manure and Soils: Abundance, Cycling and Bioavailability <b>2014</b> , 163-190		12
21	Phosphorus Forms in Sediments of a River-Dominated Estuary. <i>Frontiers in Marine Science</i> , <b>2018</b> , 5,	4.5	10
20	Phosphorus Leaching from Soil Cores from a Twenty-Year Study Evaluating Alum Treatment of Poultry Litter. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 530-537	3.4	10
19	Comparison of Phosphorus Forms in Three Extracts of Dairy Feces by Solution 31P NMR Analysis. <i>Communications in Soil Science and Plant Analysis</i> , <b>2015</b> , 46, 1698-1712	1.5	9
18	Response of mycorrhizal western red cedar to organic phosphorus sources and benomyl. <i>Canadian Journal of Botany</i> , <b>1997</b> , 75, 1226-1235		9
17	Organic Phosphorus Forms in Agricultural Soils under Mediterranean Climate. <i>Soil Science Society of America Journal</i> , <b>2018</b> , 82, 783-795	2.5	8
16	Potential Phosphorus Export in Snowmelt as Influenced by Fertilizer Placement Method in the Canadian Prairies. <i>Journal of Environmental Quality</i> , <b>2019</b> , 48, 586-593	3.4	7
15	Long-term agricultural land use affects chemical and physical properties of soils from Southwest Saskatchewan. <i>Canadian Journal of Soil Science</i> , <b>2017</b> ,	1.4	7
14	Phosphorus Transformations from Reclaimed Wastewater to Irrigated Soil: A 31P NMR Study. <i>Soil Science Society of America Journal</i> , <b>2014</b> , 78, 1884-1892	2.5	7
13	Phosphorus Forms and Mineralization Potentials of Alabama Upland Cotton Production Soils Amended with Poultry Litter <b>2014</b> , 191-209		7
12	A new solution 31P NMR sample preparation scheme for marine sediments. <i>Limnology and Oceanography: Methods</i> , <b>2017</b> , 15, 381-393	2.6	6
11	A31P-NMR spectroscopic study of phosphorus forms in two phosphorus-fertilized grassland soils in eastern Canada. <i>Canadian Journal of Soil Science</i> , <b>2019</b> , 99, 161-172	1.4	6
10	Pollutant and Soil Types Influence Effectiveness of Soil-Applied Absorbents in Reducing Rice Plant Uptake of Persistent Organic Pollutants. <i>Pedosphere</i> , <b>2017</b> , 27, 537-547	5	6

9	Soil organic phosphorus transformations during 2000 years of paddy-rice and non-paddy management in the Yangtze River Delta, China. <i>Scientific Reports</i> , <b>2017</b> , 7, 10818	4.9	4
8	Electron Donor Substances and Iron Oxides Stimulate Anaerobic Dechlorination of DDT in a Slurry System with Hydragric Acrisols. <i>Journal of Environmental Quality</i> , <b>2016</b> , 45, 331-40	3.4	3
7	Soil Phosphorus Dynamics Across a Holocene Chronosequence of Aeolian Sand Dunes in a Hypermaritime Environment on Calvert Island, BC, Canada. <i>Frontiers in Forests and Global Change</i> , <b>2020</b> , 3,	3.7	2
6	The Contrasting Effects of Alum-Treated Chicken Manures and KH <sub>2</sub> PO <sub>4</sub> on Phosphorus Behavior in Soils. <i>Journal of Environmental Quality</i> , <b>2018</b> , 47, 345-352	3.4	2
5	Soil Phosphorus Speciation and Availability in Meadows and Forests in Alpine Lake Watersheds With Different Parent Materials. <i>Frontiers in Forests and Global Change</i> , <b>2021</b> , 3,	3.7	1
4	The influence of long-term N and P fertilization on soil P forms and cycling in a wheat/fallow cropping system. <i>Geoderma</i> , <b>2021</b> , 404, 115274	6.7	1
3	Land use and landscape position influence soil organic phosphorus speciation in a mixed land use watershed. <i>Journal of Environmental Quality</i> , <b>2021</b> , 50, 967-978	3.4	0
2	INTEGRATING TERRESTRIAL AND AQUATIC P SCIENCE: EMERGING ISSUES WORKSHOP REPORT. <i>Limnology and Oceanography Bulletin</i> , <b>2011</b> , 20, 39-40	0.9	
1	The Diversity of Nuclear Magnetic Resonance Spectroscopy. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2009</b> , 65-81	0.2	