

Barbara J Cade-Menun

List of Publications by Year in descending order

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81
papers

4,865
citations

70961

41
h-index

102304

66
g-index

85
all docs

85
docs citations

85
times ranked

3406
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction of soil organic phosphorus. <i>Talanta</i> , 2005, 66, 294-306.	2.9	345
2	Characterizing phosphorus in environmental and agricultural samples by ³¹ P nuclear magnetic resonance spectroscopy. <i>Talanta</i> , 2005, 66, 359-371.	2.9	345
3	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> , 2014, 78, 19-37.	1.2	203
4	Organic Phosphorus Composition and Potential Bioavailability in Semi-Arid Arable Soils of the Western United States. <i>Soil Science Society of America Journal</i> , 2003, 67, 1168-1179.	1.2	183
5	Improved peak identification in ³¹ P-NMR spectra of environmental samples with a standardized method and peak library. <i>Geoderma</i> , 2015, 257-258, 102-114.	2.3	156
6	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 & Technology</i> , 2015, 49, 168-176.	4.6	144
7	Characterization of organic phosphorus in leachate from a grassland soil. <i>Soil Biology and Biochemistry</i> , 2003, 35, 1317-1323.	4.2	142
8	Selective phosphorus regeneration of sinking marine particles: evidence from ³¹ P-NMR. <i>Marine Chemistry</i> , 2003, 82, 55-70.	0.9	141
9	Characterizing Dissolved and Particulate Phosphorus in Water with ³¹ P Nuclear Magnetic Resonance Spectroscopy. <i>Environmental Science & Technology</i> , 2006, 40, 7874-7880.	4.6	124
10	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> , 2010, 39, 1647-1656.	1.0	109
11	Spectral and Chemical Characterization of Phosphates Associated with Humic Substances. <i>Soil Science Society of America Journal</i> , 2006, 70, 1741-1751.	1.2	107
12	Phosphorus Speciation in Manure-Amended Alkaline Soils. <i>Journal of Environmental Quality</i> , 2004, 33, 1521-1527.	1.0	106
13	Chemistry and Dynamics of Soil Organic Phosphorus. <i>Agronomy</i> , 0, , 87-121.	0.2	102
14	Depletion of organic phosphorus from Oxisols in relation to phosphatase activities in the rhizosphere. <i>European Journal of Soil Science</i> , 2006, 57, 47-57.	1.8	98
15	Characterization of plant-derived water extractable organic matter by multiple spectroscopic techniques. <i>Biology and Fertility of Soils</i> , 2009, 45, 609-616.	2.3	94
16	Long-term effects of nitrogen and phosphorus fertilization on soil microbial community structure and function under continuous wheat production. <i>Environmental Microbiology</i> , 2020, 22, 1066-1088.	1.8	87
17	The inositol phosphates in soils and manures: Abundance, cycling, and measurement. <i>Canadian Journal of Soil Science</i> , 2011, 91, 397-416.	0.5	86
18	Soil Phosphorus Forms from Organic and Conventional Forage Fields. <i>Soil Science Society of America Journal</i> , 2016, 80, 328-340.	1.2	85

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19	Organic phosphorus speciation and pedogenesis: analysis by solution ³¹ P nuclear magnetic resonance spectroscopy. <i>European Journal of Soil Science</i> , 2007, 58, 1348-1357.	1.8	84
20	Phosphorus in Poultry Litter and Soil: Enzymatic and Nuclear Magnetic Resonance Characterization. <i>Soil Science Society of America Journal</i> , 2008, 72, 1425-1433.	1.2	83
21	Establishing a Linkage between Phosphorus Forms in Dairy Diets, Feces, and Manures. <i>Journal of Environmental Quality</i> , 2005, 34, 1380-1391.	1.0	77
22	Phosphorus Speciation in Riparian Soils: A Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy and Enzyme Hydrolysis Study. <i>Soil Science Society of America Journal</i> , 2013, 77, 1636-1647.	1.2	73
23	Phosphorus speciation in a eutrophic lake by ³¹ P NMR spectroscopy. <i>Water Research</i> , 2014, 62, 229-240.	5.3	73
24	Forms and Lability of Phosphorus in Humic Acid Fractions of Hord Silt Loam Soil. <i>Soil Science Society of America Journal</i> , 2011, 75, 1712-1722.	1.2	72
25	Molecular Speciation of Phosphorus Present in Readily Dispersible Colloids from Agricultural Soils. <i>Soil Science Society of America Journal</i> , 2014, 78, 47-53.	1.2	70
26	Nutrient temperature and light stress alter phosphorus and carbon forms in culture-grown algae. <i>Marine Chemistry</i> , 2010, 121, 27-36.	0.9	69
27	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> , 2000, 30, 1726-1741.	0.8	67
28	Preferential phosphorus leaching from an irrigated grassland soil. <i>European Journal of Soil Science</i> , 2005, 56, 155-168.	1.8	67
29	Complementary Phosphorus Speciation in Agricultural Soils by Sequential Fractionation, Solution ³¹ P Nuclear Magnetic Resonance, and Phosphorus K-edge X-ray Absorption Near-Edge Structure Spectroscopy. <i>Journal of Environmental Quality</i> , 2013, 42, 1763-1770.	1.0	67
30	Long-Term Impact of Tillage Practices and Phosphorus Fertilization on Soil Phosphorus Forms as Determined by ³¹ P Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Environmental Quality</i> , 2014, 43, 1431-1441.	1.0	67
31	The oxygen isotopic composition of phosphate in Elkhorn Slough, California: A tracer for phosphate sources. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 70, 499-506.	0.9	66
32	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> , 2007, 36, 1086-1095.	1.0	66
33	Long-Term Land Use Affects Phosphorus Speciation and the Composition of Phosphorus Cycling Genes in Agricultural Soils. <i>Frontiers in Microbiology</i> , 2018, 9, 1643.	1.5	64
34	Refining ³¹ P nuclear magnetic resonance spectroscopy for marine particulate samples: Storage conditions and extraction recovery. <i>Marine Chemistry</i> , 2005, 97, 293-306.	0.9	63
35	Nutrient loss from Saskatchewan cropland and pasture in spring snowmelt runoff. <i>Canadian Journal of Soil Science</i> , 2013, 93, 445-458.	0.5	61
36	Phosphorus Speciation in Calcareous Soils Following Annual Dairy Manure Amendments. <i>Soil Science Society of America Journal</i> , 2016, 80, 1531-1542.	1.2	52

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37	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> , 2000, 30, 1714-1725.	0.8	51
38	Freeze-thaw cycles and soil water content effects on infiltration rate of three Saskatchewan soils. <i>Canadian Journal of Soil Science</i> , 2013, 93, 485-496.	0.5	50
39	Phosphorus-31 Nuclear Magnetic Resonance Spectroscopy Transect Study of Poultry Operations on the Delmarva Peninsula. <i>Journal of Environmental Quality</i> , 2009, 38, 130-138.	1.0	48
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> , 2017, 4, .	1.9	48
41	Stratification of Phosphorus Forms from Long-Term Conservation Tillage and Poultry Litter Application. <i>Soil Science Society of America Journal</i> , 2015, 79, 504-516.	1.2	47
42	Characterization of Organic Phosphorus Form and Bioavailability in Lake Sediments using ³¹ P Nuclear Magnetic Resonance and Enzymatic Hydrolysis. <i>Journal of Environmental Quality</i> , 2015, 44, 882-894.	1.0	45
43	Phosphorus Forms in Conventional and Organic Dairy Manure Identified by Solution and Solid State ³¹ P NMR Spectroscopy. <i>Journal of Environmental Quality</i> , 2009, 38, 1909-1918.	1.0	43
44	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> , 2017, 7, 15354.	1.6	42
45	The short-term transport and transformation of phosphorus species in a saturated soil following poultry manure amendment and leaching. <i>Geoderma</i> , 2015, 257-258, 134-141.	2.3	38
46	Molecular-level understanding of phosphorus transformation with long-term phosphorus addition and depletion in an alkaline soil. <i>Geoderma</i> , 2019, 353, 116-124.	2.3	37
47	Long-term Changes in Grassland Soil Phosphorus with Fertilizer Application and Withdrawal. <i>Journal of Environmental Quality</i> , 2017, 46, 537-545.	1.0	35
48	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> , 2018, 163, 356-371.	2.6	35
49	Compositional statistical analysis of soil 31P-NMR forms. <i>Geoderma</i> , 2015, 257-258, 40-47.	2.3	34
50	Colloid-bound and dissolved phosphorus species in topsoil water extracts along a grassland transect from Cambisol to Stagnosol. <i>Biogeosciences</i> , 2017, 14, 1153-1164.	1.3	33
51	The chemical nature of soil phosphorus in response to long-term fertilization practices: Implications for sustainable phosphorus management. <i>Journal of Cleaner Production</i> , 2020, 272, 123093.	4.6	30
52	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. <i>Geochemical Transactions</i> , 2018, 19, 7.	1.8	28
53	Nitrogen application favors soil organic phosphorus accumulation in calcareous vegetable fields. <i>Biology and Fertility of Soils</i> , 2019, 55, 481-496.	2.3	26
54	Seasonal colonization of winter wheat in South Coastal British Columbia by vesicular-arbuscular mycorrhizal fungi. <i>Canadian Journal of Botany</i> , 1991, 69, 78-86.	1.2	24

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55	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> , 2017, 14, 109-129.	1.0	21
56	Phosphorus Forms in Sediments of a River-Dominated Estuary. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	20
57	Characterization of Canadian Backyard Composts: Chemical and Spectroscopic Analyses. <i>Compost Science and Utilization</i> , 1998, 6, 53-66.	1.2	18
58	Visible near infrared reflectance spectroscopy to predict soil phosphorus pools in chernozems of Saskatchewan, Canada. <i>Geoderma Regional</i> , 2016, 7, 93-101.	0.9	18
59	Impact of annual and single application of alkaline treated biosolids on soil extractable phosphorus and total phosphorus. <i>Agriculture, Ecosystems and Environment</i> , 2016, 219, 111-118.	2.5	17
60	The influence of long-term N and P fertilization on soil P forms and cycling in a wheat/fallow cropping system. <i>Geoderma</i> , 2021, 404, 115274.	2.3	17
61	Organic Phosphorus Forms in Agricultural Soils under Mediterranean Climate. <i>Soil Science Society of America Journal</i> , 2018, 82, 783-795.	1.2	15
62	Response of mycorrhizal western red cedar to organic phosphorus sources and benomyl. <i>Canadian Journal of Botany</i> , 1997, 75, 1226-1235.	1.2	14
63	Phosphorus Leaching from Soil Cores from a Twentyâ€¢Year Study Evaluating Alum Treatment of Poultry Litter. <i>Journal of Environmental Quality</i> , 2018, 47, 530-537.	1.0	14
64	Pollutant and Soil Types Influence Effectiveness of Soil-Applied Absorbents in Reducing Rice Plant Uptake of Persistent Organic Pollutants. <i>Pedosphere</i> , 2017, 27, 537-547.	2.1	13
65	Phytate in Animal Manure and Soils: Abundance, Cycling and Bioavailability. , 2014, , 163-190.		13
66	Long-term agricultural land use affects chemical and physical properties of soils from Southwest Saskatchewan. <i>Canadian Journal of Soil Science</i> , 0, , .	0.5	11
67	Phosphorus Transformations from Reclaimed Wastewater to Irrigated Soil: A ³¹ P NMR Study. <i>Soil Science Society of America Journal</i> , 2014, 78, 1884-1892.	1.2	10
68	Comparison of Phosphorus Forms in Three Extracts of Dairy Feces by Solution ³¹ P NMR Analysis. <i>Communications in Soil Science and Plant Analysis</i> , 2015, 46, 1698-1712.	0.6	10
69	Potential Phosphorus Export in Snowmelt as Influenced by Fertilizer Placement Method in the Canadian Prairies. <i>Journal of Environmental Quality</i> , 2019, 48, 586-593.	1.0	9
70	A new solution ³¹ P NMR sample preparation scheme for marine sediments. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 381-393.	1.0	8
71	Soil organic phosphorus transformations during 2000 years of paddy-rice and non-paddy management in the Yangtze River Delta, China. <i>Scientific Reports</i> , 2017, 7, 10818.	1.6	8
72	A ³¹ P-NMR spectroscopic study of phosphorus forms in two phosphorus-fertilized grassland soils in eastern Canada. <i>Canadian Journal of Soil Science</i> , 2019, 99, 161-172.	0.5	8

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73	Land use and landscape position influence soil organic phosphorus speciation in a mixed land use watershed. <i>Journal of Environmental Quality</i> , 2021, 50, 967-978.	1.0	8
74	Phosphorus Forms and Mineralization Potentials of Alabama Upland Cotton Production Soils Amended with Poultry Litter. , 2014, , 191-209.		8
75	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> , 2020, 3, .	1.0	6
76	Electron Donor Substances and Iron Oxides Stimulate Anaerobic Dechlorination of DDT in a Slurry System with Hydragric Acrisols. <i>Journal of Environmental Quality</i> , 2016, 45, 331-340.	1.0	4
77	The Contrasting Effects of Alum-treated Chicken Manures and KH_2PO_4 on Phosphorus Behavior in Soils. <i>Journal of Environmental Quality</i> , 2018, 47, 345-352.	1.0	2
78	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> , 2021, 3, .	1.0	1
79	INTEGRATING TERRESTRIAL AND AQUATIC P SCIENCE: EMERGING ISSUES WORKSHOP REPORT. <i>Limnology and Oceanography Bulletin</i> , 2011, 20, 39-40.	0.2	0
80	The Diversity of Nuclear Magnetic Resonance Spectroscopy. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009, , 65-81.	0.2	0
81	Potential Phosphorus Uptake Mechanisms in the Deep Sedimentary Biosphere. <i>Frontiers in Marine Science</i> , 2022, 9, .	1.2	0