

# Peter J A Kleinman

## List of Publications by Year in descending order

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137  
papers

7,158  
citations

76031

42  
h-index

71088

80  
g-index

139  
all docs

139  
docs citations

139  
times ranked

5329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorus Legacy: Overcoming the Effects of Past Management Practices to Mitigate Future Water Quality Impairment. <i>Journal of Environmental Quality</i> , 2013, 42, 1308-1326.	1.0	706
2	Phosphorus Transport in Agricultural Subsurface Drainage: A Review. <i>Journal of Environmental Quality</i> , 2015, 44, 467-485.	1.0	358
3	Phosphorus loss from land to water: integrating agricultural and environmental management. <i>Plant and Soil</i> , 2001, 237, 287-307.	1.8	327
4	Effect of Mineral and Manure Phosphorus Sources on Runoff Phosphorus. <i>Journal of Environmental Quality</i> , 2002, 31, 2026-2033.	1.0	263
5	Water Quality Remediation Faces Unprecedented Challenges from “Legacy Phosphorus”. <i>Environmental Science &amp; Technology</i> , 2013, 47, 8997-8998.	4.6	228
6	Managing agricultural phosphorus for water quality protection: principles for progress. <i>Plant and Soil</i> , 2011, 349, 169-182.	1.8	226
7	Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. <i>Soil Science Society of America Journal</i> , 2004, 68, 2048-2057.	1.2	223
8	Effect of Broadcast Manure on Runoff Phosphorus Concentrations over Successive Rainfall Events. <i>Journal of Environmental Quality</i> , 2003, 32, 1072-1081.	1.0	174
9	Measuring Water-Extractable Phosphorus in Manure as an Indicator of Phosphorus in Runoff. <i>Soil Science Society of America Journal</i> , 2002, 66, 2009-2015.	1.2	165
10	Implementing agricultural phosphorus science and management to combat eutrophication. <i>Ambio</i> , 2015, 44, 297-310.	2.8	164
11	Role of Rainfall Intensity and Hydrology in Nutrient Transport via Surface Runoff. <i>Journal of Environmental Quality</i> , 2006, 35, 1248-1259.	1.0	160
12	Effect of Rainfall Simulator and Plot Scale on Overland Flow and Phosphorus Transport. <i>Journal of Environmental Quality</i> , 2003, 32, 2172-2179.	1.0	159
13	Freeze-Thaw Effects on Phosphorus Loss in Runoff from Manured and Catch-Cropped Soils. <i>Journal of Environmental Quality</i> , 2005, 34, 2301-2309.	1.0	159
14	Soil controls of phosphorus in runoff: Management barriers and opportunities. <i>Canadian Journal of Soil Science</i> , 2011, 91, 329-338.	0.5	154
15	Assessing Site Vulnerability to Phosphorus Loss in an Agricultural Watershed. <i>Journal of Environmental Quality</i> , 2001, 30, 2026-2036.	1.0	148
16	The Pivotal Role of Phosphorus in a Resilient Water-Energy-Food Security Nexus. <i>Journal of Environmental Quality</i> , 2015, 44, 1049-1062.	1.0	125
17	Survey of Water-Extractable Phosphorus in Livestock Manures. <i>Soil Science Society of America Journal</i> , 2005, 69, 701-708.	1.2	122
18	Application of manure to no-till soils: phosphorus losses by sub-surface and surface pathways. <i>Nutrient Cycling in Agroecosystems</i> , 2009, 84, 215-227.	1.1	121

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19	Evaluating the Success of Phosphorus Management from Field to Watershed. <i>Journal of Environmental Quality</i> , 2009, 38, 1981-1988.	1.0	119
20	Estimating soil phosphorus sorption saturation from Mehlich-3 data. <i>Communications in Soil Science and Plant Analysis</i> , 2002, 33, 1825-1839.	0.6	110
21	Evaluation of Phosphorus Transport in Surface Runoff from Packed Soil Boxes. <i>Journal of Environmental Quality</i> , 2004, 33, 1413.	1.0	90
22	Selection of a Water-Extractable Phosphorus Test for Manures and Biosolids as an Indicator of Runoff Loss Potential. <i>Journal of Environmental Quality</i> , 2007, 36, 1357-1367.	1.0	90
23	Critical source area management of agricultural phosphorus: experiences, challenges and opportunities. <i>Water Science and Technology</i> , 2011, 64, 945-952.	1.2	87
24	Manure Application Technology in Reduced Tillage and Forage Systems: A Review. <i>Journal of Environmental Quality</i> , 2011, 40, 292-301.	1.0	86
25	Phosphorus Fate, Management, and Modeling in Artificially Drained Systems. <i>Journal of Environmental Quality</i> , 2015, 44, 460-466.	1.0	85
26	Effects of Hydrology and Field Management on Phosphorus Transport in Surface Runoff. <i>Journal of Environmental Quality</i> , 2009, 38, 2273-2284.	1.0	84
27	Manuresheds: Advancing nutrient recycling in US agriculture. <i>Agricultural Systems</i> , 2020, 182, 102813.	3.2	75
28	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. <i>Soil Science Society of America Journal</i> , 2004, 68, 914-923.	1.2	74
29	USING SOIL PHOSPHORUS BEHAVIOR TO IDENTIFY ENVIRONMENTAL THRESHOLDS. <i>Soil Science</i> , 2000, 165, 943-950.	0.9	73
30	Using Flue Gas Desulfurization Gypsum to Remove Dissolved Phosphorus from Agricultural Drainage Waters. <i>Journal of Environmental Quality</i> , 2012, 41, 664-671.	1.0	65
31	Factors influencing surface runoff generation from two agricultural hillslopes in central Pennsylvania. <i>Hydrological Processes</i> , 2009, 23, 1295-1312.	1.1	64
32	ASSESSING THE EFFICACY OF ALTERNATIVE PHOSPHORUS SORBING SOIL AMENDMENTS. <i>Soil Science</i> , 2002, 167, 539-547.	0.9	62
33	Impacts of Cover Crops and Crop Residues on Phosphorus Losses in Cold Climates: A Review. <i>Journal of Environmental Quality</i> , 2019, 48, 850-868.	1.0	62
34	Low-Disturbance Manure Incorporation Effects on Ammonia and Nitrate Loss. <i>Journal of Environmental Quality</i> , 2012, 41, 928-937.	1.0	60
35	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. <i>Soil Science Society of America Journal</i> , 2003, 67, 215-224.	1.2	59
36	The Persistent Environmental Relevance of Soil Phosphorus Sorption Saturation. <i>Current Pollution Reports</i> , 2017, 3, 141-150.	3.1	57

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37	Impact of climate change and climate anomalies on hydrologic and biogeochemical processes in an agricultural catchment of the Chesapeake Bay watershed, USA. <i>Science of the Total Environment</i> , 2018, 637-638, 1443-1454.	3.9	57
38	INNOVATIVE MANAGEMENT OF AGRICULTURAL PHOSPHORUS TO PROTECT SOIL AND WATER RESOURCES. <i>Communications in Soil Science and Plant Analysis</i> , 2001, 32, 1071-1100.	0.6	54
39	Predicting phosphorus dynamics in complex terrains using a variable source area hydrology model. <i>Hydrological Processes</i> , 2015, 29, 588-601.	1.1	54
40	Interlaboratory comparison of soil phosphorus extracted by various soil test methods. <i>Communications in Soil Science and Plant Analysis</i> , 2001, 32, 2325-2345.	0.6	52
41	Celebrating the 350th Anniversary of Phosphorus Discovery: A Conundrum of Deficiency and Excess. <i>Journal of Environmental Quality</i> , 2018, 47, 774-777.	1.0	48
42	Phosphorus and the Chesapeake Bay: Lingering Issues and Emerging Concerns for Agriculture. <i>Journal of Environmental Quality</i> , 2019, 48, 1191-1203.	1.0	48
43	PHOSPHORUS LEACHING THROUGH INTACT SOIL COLUMNS BEFORE AND AFTER POULTRY MANURE APPLICATION. <i>Soil Science</i> , 2005, 170, 153-166.	0.9	45
44	A review of regulations and guidelines related to winter manure application. <i>Ambio</i> , 2018, 47, 657-670.	2.8	45
45	Phosphorus Leaching from Agricultural Soils of the Delmarva Peninsula, USA. <i>Journal of Environmental Quality</i> , 2015, 44, 524-534.	1.0	44
46	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Physiography and history. <i>Water Resources Research</i> , 2011, 47, .	1.7	42
47	Improved Simulation of Edaphic and Manure Phosphorus Loss in SWAT. <i>Journal of Environmental Quality</i> , 2016, 45, 1215-1225.	1.0	42
48	Development of a Water-Extractable Phosphorus Test for Manure. <i>Soil Science Society of America Journal</i> , 2005, 69, 695-700.	1.2	41
49	Evaluation of Phosphorus Site Assessment Tools: Lessons from the USA. <i>Journal of Environmental Quality</i> , 2017, 46, 1250-1256.	1.0	39
50	One size does not fit all: Toward regional conservation practice guidance to reduce phosphorus loss risk in the Lake Erie watershed. <i>Journal of Environmental Quality</i> , 2021, 50, 529-546.	1.0	38
51	Integrating Contributing Areas and Indexing Phosphorus Loss from Agricultural Watersheds. <i>Journal of Environmental Quality</i> , 2008, 37, 1488-1496.	1.0	35
52	Consistency of the Threshold Phosphorus Saturation Ratio across a Wide Geographic Range of Acid Soils. , 2018, 1, 1-8.		35
53	Phosphorus leaching through intact soil cores as influenced by type and duration of manure application. <i>Nutrient Cycling in Agroecosystems</i> , 2007, 77, 269-281.	1.1	34
54	Sources of Uncertainty Affecting Soil Organic Carbon Estimates in Northern New York. <i>Soil Science Society of America Journal</i> , 2003, 67, 1206-1212.	1.2	32

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55	Distant Views and Local Realities: The Limits of Global Assessments to Restore the Fragmented Phosphorus Cycle. <i>Agricultural and Environmental Letters</i> , 2016, 1, 160024.	0.8	32
56	Environmental assessment of United States dairy farms. <i>Journal of Cleaner Production</i> , 2021, 315, 128153.	4.6	32
57	Runoff Losses of Sediment and Phosphorus from No-Till and Cultivated Soils Receiving Dairy Manure. <i>Journal of Environmental Quality</i> , 2010, 39, 1762-1770.	1.0	31
58	Seasonal Manure Application Timing and Storage Effects on Field- and Watershed-Level Phosphorus Losses. <i>Journal of Environmental Quality</i> , 2017, 46, 1403-1412.	1.0	31
59	Assessment of best management practices to minimise the runoff of manure-borne phosphorus in the United States. <i>New Zealand Journal of Agricultural Research</i> , 2004, 47, 461-477.	0.9	30
60	Occurrence of Arsenic and Phosphorus in Ditch Flow from Litter-Amended Soils and Barn Areas. <i>Journal of Environmental Quality</i> , 2010, 39, 2080-2088.	1.0	28
61	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. <i>Geochemical Transactions</i> , 2018, 19, 7.	1.8	28
62	Influence of soil phosphorus and manure on phosphorus leaching in Swedish topsoils. <i>Nutrient Cycling in Agroecosystems</i> , 2013, 96, 133-147.	1.1	27
63	Novel Manure Management Technologies in No-Till and Forage Systems: Introduction to the Special Series. <i>Journal of Environmental Quality</i> , 2011, 40, 287-291.	1.0	24
64	Short communication: Identifying challenges and opportunities for improved nutrient management through the USDA's Dairy Agroecosystem Working Group. <i>Journal of Dairy Science</i> , 2018, 101, 6632-6641.	1.4	24
65	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. <i>Journal of Hydrology</i> , 2020, 588, 125021.	2.3	24
66	Phosphorus runoff from a phosphorus deficient soil under common bean ( <i>Phaseolus vulgaris</i> L.) and soybean ( <i>Glycine max</i> L.) genotypes with contrasting root architecture. <i>Plant and Soil</i> , 2009, 317, 1-16.	1.8	23
67	Spatial Variation of Soil Phosphorus within a Drainage Ditch Network. <i>Journal of Environmental Quality</i> , 2007, 36, 1096-1104.	1.0	21
68	Effect of dairy manure slurry application in a no-till system on phosphorus runoff. <i>Nutrient Cycling in Agroecosystems</i> , 2011, 90, 201-212.	1.1	21
69	Reducing Phosphorus Runoff and Leaching from Poultry Litter with Alum: Twenty-Year Small Plot and Paired Watershed Studies. <i>Journal of Environmental Quality</i> , 2016, 45, 1413-1420.	1.0	21
70	Water-Extractable Phosphorus in Animal Manure and Manure Compost: Quantities, Characteristics, and Temporal Changes. <i>Journal of Environmental Quality</i> , 2018, 47, 471-479.	1.0	21
71	Regional environmental assessment of dairy farms. <i>Journal of Dairy Science</i> , 2020, 103, 3275-3288.	1.4	21
72	Using Rare Earth Elements to Control Phosphorus and Track Manure in Runoff. <i>Journal of Environmental Quality</i> , 2010, 39, 1028-1035.	1.0	20

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73	Improving the spatial representation of soil properties and hydrology using topographically derived initialization processes in the SWAT model. <i>Hydrological Processes</i> , 2016, 30, 4633-4643.	1.1	20
74	Short-term Forecasting Tools for Agricultural Nutrient Management. <i>Journal of Environmental Quality</i> , 2017, 46, 1257-1269.	1.0	20
75	Management characteristics of Pennsylvania dairy farms. <i>Applied Animal Science</i> , 2019, 35, 325-338.	0.4	20
76	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. <i>Soil Science Society of America Journal</i> , 2004, 68, 914.	1.2	20
77	Impact of Dredging on Phosphorus Transport in Agricultural Drainage Ditches of the Atlantic Coastal Plain. <i>Journal of the American Water Resources Association</i> , 2008, 44, 1500-1511.	1.0	18
78	Managing Agricultural Phosphorus for Environmental Protection. <i>Agronomy</i> , 2015, , 1021-1068.	0.2	18
79	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. <i>Soil Science Society of America Journal</i> , 2003, 67, 215.	1.2	18
80	Addressing the spatial disconnect between national-scale total maximum daily loads and localized land management decisions. <i>Journal of Environmental Quality</i> , 2020, 49, 613-627.	1.0	16
81	Phosphorus Runoff Losses from Subsurface-Applied Poultry Litter on Coastal Plain Soils. <i>Journal of Environmental Quality</i> , 2011, 40, 412-420.	1.0	16
82	Phosphorus and Nitrogen Leaching Before and After Tillage and Urea Application. <i>Journal of Environmental Quality</i> , 2015, 44, 560-571.	1.0	15
83	Estrogen Transport in Surface Runoff from Agricultural Fields Treated with Two Application Methods of Dairy Manure. <i>Journal of Environmental Quality</i> , 2016, 45, 2007-2015.	1.0	15
84	Subsurface Application Enhances Benefits of Manure Redistribution. <i>Agricultural and Environmental Letters</i> , 2016, 1, 150003.	0.8	15
85	Temperature and Nitrogen Effects on Phosphorus Uptake by Agricultural Stream-Bed Sediments. <i>Journal of Environmental Quality</i> , 2017, 46, 295-301.	1.0	15
86	Poultry manure management: Opportunities and challenges for a vertically integrated industry. <i>Journal of Environmental Quality</i> , 2022, 51, 540-551.	1.0	15
87	Managing crop nutrients to achieve water quality goals. <i>Journal of Soils and Water Conservation</i> , 2019, 74, 91A-101A.	0.8	14
88	<i>Phosphorus mirabilis</i> : Illuminating the Past and Future of Phosphorus Stewardship. <i>Journal of Environmental Quality</i> , 2019, 48, 1127-1132.	1.0	13
89	FRST: A national soil testing database to improve fertility recommendations. <i>Agricultural and Environmental Letters</i> , 2020, 5, e20008.	0.8	13
90	Minimum dataset and metadata guidelines for soil test correlation and calibration research. <i>Soil Science Society of America Journal</i> , 2022, 86, 19-33.	1.2	13

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91	Vertical Distribution of Phosphorus in Agricultural Drainage Ditch Soils. <i>Journal of Environmental Quality</i> , 2007, 36, 1895-1903.	1.0	12
92	A Protocol for Conducting Rainfall Simulation to Study Soil Runoff. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	12
93	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Long-term water quality database. <i>Water Resources Research</i> , 2011, 47, .	1.7	11
94	Varying Influence of Dairy Manure Injection on Phosphorus Loss in Runoff over Four Years. <i>Journal of Environmental Quality</i> , 2019, 48, 450-458.	1.0	11
95	An environmental assessment of grass-based dairy production in the northeastern United States. <i>Agricultural Systems</i> , 2020, 184, 102887.	3.2	11
96	The USDA-CARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. <i>Water Resources Research</i> , 2021, 57, e2019WR026473.	1.7	11
97	Urea Release by Intermittently Saturated Sediments from a Coastal Agricultural Landscape. <i>Journal of Environmental Quality</i> , 2017, 46, 302-310.	1.0	10
98	Load-discharge relationships reveal the efficacy of manure application practices on phosphorus and total solids losses from agricultural fields. <i>Agriculture, Ecosystems and Environment</i> , 2019, 272, 19-28.	2.5	10
99	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Long-term stream discharge database. <i>Water Resources Research</i> , 2011, 47, .	1.7	9
100	Envisioning the manureshed: Toward comprehensive integration of modern crop and animal production. <i>Journal of Environmental Quality</i> , 2022, 51, 481-493.	1.0	8
101	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Long-term precipitation database. <i>Water Resources Research</i> , 2011, 47, .	1.7	7
102	Declining Atmospheric Sulfate Deposition in an Agricultural Watershed in Central Pennsylvania, USA. <i>Agricultural and Environmental Letters</i> , 2016, 1, 160039.	0.8	7
103	Impact of Irrigation, Nitrogen Fertilization, and Spatial Management on Maize. <i>Agronomy Journal</i> , 2016, 108, 1794-1804.	0.9	7
104	Versatility of the MANure PHosphorus EXtraction (MAPHEX) System in Removing Phosphorus, Odor, Microbes, and Alkalinity from Dairy Manures: A Four-Farm Case Study. <i>Applied Engineering in Agriculture</i> , 2018, 34, 567-572.	0.3	7
105	Chemical and Isotopic Tracers Illustrate Pathways of Nitrogen Loss in Cranberry Floodwaters. <i>Journal of Environmental Quality</i> , 2015, 44, 1326-1332.	1.0	6
106	Elements of Precision Manure Management. <i>Agronomy</i> , 0, , 165-192.	0.2	6
107	Land use change and collaborative manureshed management in New Mexico. <i>Journal of Environmental Quality</i> , 2021, , .	1.0	6
108	Managing Animal Manure to Minimize Phosphorus Losses from Land to Water. <i>ASA Special Publication</i> , 0, , 201-228.	0.8	6

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109	Opportunities to implement manureshed management in the Iowa, North Carolina, and Pennsylvania swine industry. <i>Journal of Environmental Quality</i> , 2022, 51, 510-520.	1.0	6
110	Challenges and opportunities for manureshed management across U.S. dairy systems: Case studies from four regions. <i>Journal of Environmental Quality</i> , 2022, 51, 521-539.	1.0	6
111	Recycling nutrients in the beef supply chain through circular manuresheds: Data to assess tradeoffs. <i>Journal of Environmental Quality</i> , 2022, 51, 494-509.	1.0	6
112	Reducing Unintended Consequences of Agricultural Phosphorus. , 2019, 103, 33-35.		5
113	The Partnerships for Data Innovations (PDI): Facilitating data stewardship and catalyzing research engagement in the digital age. <i>Agricultural and Environmental Letters</i> , 2021, 6, e20055.	0.8	5
114	Development of a soil test correlation and calibration database for the USA. <i>Agricultural and Environmental Letters</i> , 2021, 6, .	0.8	5
115	The social networks of manureshed management. <i>Journal of Environmental Quality</i> , 2022, 51, 566-579.	1.0	5
116	Effect of Coal Combustion By-products on Phosphorus Runoff from a Coastal Plain Soil. <i>Communications in Soil Science and Plant Analysis</i> , 2011, 42, 778-789.	0.6	4
117	Phosphorus and nitrogen losses from poultry litter stacks and leaching through soils. <i>Nutrient Cycling in Agroecosystems</i> , 2015, 103, 101-114.	1.1	4
118	Urea Fluctuations in Stream Baseflow across Land Cover Gradients and Seasons in a Coastal Plain River System. <i>Journal of the American Water Resources Association</i> , 2019, 55, 228-246.	1.0	4
119	Evaluating the Influence of Storage Time, Sample Handling Method, and Filter Paper on the Measurement of Water-Extractable Phosphorus in Animal Manures. <i>Communications in Soil Science and Plant Analysis</i> , 2006, 37, 451-463.	0.6	3
120	Managing Surface Water Inputs to Reduce Phosphorus Loss from Cranberry Farms. <i>Journal of Environmental Quality</i> , 2017, 46, 1472-1479.	1.0	3
121	Pilot-Scale Investigation of Phosphorus Removal from Swine Manure by the MANure PHosphorus EXtraction (MAPHEX) System. <i>Applied Engineering in Agriculture</i> , 2020, 36, 525-531.	0.3	3
122	Nitrogen dynamics after low-emission applications of dairy slurry or fertilizer on perennial grass: a long term field study employing natural abundance of $\delta^{15}N$ . <i>Plant and Soil</i> , 2021, 465, 415-430.	1.8	3
123	Response to "Comments on "Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure". <i>Soil Science Society of America Journal</i> , 2005, 69, 1355-1355.	1.2	2
124	Environmental and Economic Comparisons of Manure Application Methods on Dairy Farms. , 2007, , .		2
125	The Agricultural Conservation Planning Framework: Opportunities and challenges in the eastern United States. <i>Agricultural and Environmental Letters</i> , 2021, 6, e20054.	0.8	2
126	Estimating dissolved phosphorus losses from legacy sources in pastures: The limits of soil tests and small-scale rainfall simulators. <i>Journal of Environmental Quality</i> , 2021, 50, 1042-1062.	1.0	2



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127	Applying the NWS's Distributed Hydrologic Model to Short-Range Forecasting of Quickflow in the Mahantango Creek Watershed. <i>Journal of Hydrometeorology</i> , 2022, 23, 1257-1280.	0.7	2
128	A Phosphorus Transport Study: Influence of Poultry Litter Application Method on Leaching. , 2010, , .		1
129	Subsurface application enhances benefits of manure redistribution. <i>Crops &amp; Soils</i> , 2016, 49, 48-51.	0.1	1
130	A Protocol for Collecting and Constructing Soil Core Lysimeters. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	1
131	Hydrology and Soil Manipulations of Iron-Rich Ditch Mesocosms Provide Little Evidence of Phosphorus Capture within the Profile. <i>Journal of Environmental Quality</i> , 2017, 46, 596-604.	1.0	1
132	Culturable antibiotic resistant fecal coliform bacteria in soil and surface runoff following liquid dairy manure surface application and subsurface injection. <i>Journal of Environmental Quality</i> , 2022, , .	1.0	1
133	Long term agroecosystem research experimental watershed network. <i>Hydrological Processes</i> , 2022, 36, .	1.1	1
134	Field Olfactometry Assessment of Dairy Manure Land Application Methods. , 2008, , .		0
135	Subsurface Manure Application to Reduce Ammonia Emissions. , 2010, , .		0
136	Elements of Precision Manure Management. <i>Agronomy</i> , 2017, , .	0.2	0
137	Transforming the Culture of Data Management in a Federal Science Agency, One Client at a Time. <i>CSA News</i> , 2021, 66, 44-47.	0.1	0