

Peter J A Kleinman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123
papers

5,416
citations

39
h-index

71
g-index

139
ext. papers

6,135
ext. citations

3.2
avg, IF

5.68
L-index

#	Paper	IF	Citations
123	Phosphorus legacy: overcoming the effects of past management practices to mitigate future water quality impairment. <i>Journal of Environmental Quality</i> , 2013 , 42, 1308-26	3.4	543
122	Phosphorus transport in agricultural subsurface drainage: a review. <i>Journal of Environmental Quality</i> , 2015 , 44, 467-85	3.4	266
121	Phosphorus loss from land to water: integrating agricultural and environmental management. <i>Plant and Soil</i> , 2001 , 237, 287-307	4.2	262
120	Effect of mineral and manure phosphorus sources on runoff phosphorus. <i>Journal of Environmental Quality</i> , 2002 , 31, 2026-33	3.4	214
119	Water quality remediation faces unprecedented challenges from "legacy phosphorus". <i>Environmental Science & Technology</i> , 2013 , 47, 8997-8	10.3	179
118	Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. <i>Soil Science Society of America Journal</i> , 2004 , 68, 2048-2057	2.5	175
117	Managing agricultural phosphorus for water quality protection: principles for progress. <i>Plant and Soil</i> , 2011 , 349, 169-182	4.2	174
116	Effect of broadcast manure on runoff phosphorus concentrations over successive rainfall events. <i>Journal of Environmental Quality</i> , 2003 , 32, 1072-81	3.4	147
115	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	2.5	143
114	Implementing agricultural phosphorus science and management to combat eutrophication. <i>Ambio</i> , 2015 , 44 Suppl 2, S297-310	6.5	133
113	Freeze-thaw effects on phosphorus loss in runoff from manured and catch-cropped soils. <i>Journal of Environmental Quality</i> , 2005 , 34, 2301-9	3.4	131
112	Role of rainfall intensity and hydrology in nutrient transport via surface runoff. <i>Journal of Environmental Quality</i> , 2006 , 35, 1248-59	3.4	128
111	Soil controls of phosphorus in runoff: Management barriers and opportunities. <i>Canadian Journal of Soil Science</i> , 2011 , 91, 329-338	1.4	126
110	Assessing site vulnerability to phosphorus loss in an agricultural watershed. <i>Journal of Environmental Quality</i> , 2001 , 30, 2026-36	3.4	121
109	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	3.3	105
108	Effect of rainfall simulator and plot scale on overland flow and phosphorus transport. <i>Journal of Environmental Quality</i> , 2003 , 32, 2172-9	3.4	104
107	Survey of Water-Extractable Phosphorus in Livestock Manures. <i>Soil Science Society of America Journal</i> , 2005 , 69, 701-708	2.5	101

106	The Pivotal Role of Phosphorus in a Resilient Water-Energy-Food Security Nexus. <i>Journal of Environmental Quality</i> , 2015 , 44, 1049-62	3.4	95
105	Evaluating the success of phosphorus management from field to watershed. <i>Journal of Environmental Quality</i> , 2009 , 38, 1981-8	3.4	95
104	Estimating soil phosphorus sorption saturation from Mehlich-3 data. <i>Communications in Soil Science and Plant Analysis</i> , 2002 , 33, 1825-1839	1.5	92
103	Evaluation of phosphorus transport in surface runoff from packed soil boxes. <i>Journal of Environmental Quality</i> , 2004 , 33, 1413-23	3.4	81
102	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, 1357-67	3.4	74
101	Phosphorus fate, management, and modeling in artificially drained systems. <i>Journal of Environmental Quality</i> , 2015 , 44, 460-6	3.4	72
100	Effects of hydrology and field management on phosphorus transport in surface runoff. <i>Journal of Environmental Quality</i> , 2009 , 38, 2273-84	3.4	72
99	Critical source area management of agricultural phosphorus: experiences, challenges and opportunities. <i>Water Science and Technology</i> , 2011 , 64, 945-52	2.2	70
98	USING SOIL PHOSPHORUS BEHAVIOR TO IDENTIFY ENVIRONMENTAL THRESHOLDS. <i>Soil Science</i> , 2000 , 165, 943-950	0.9	63
97	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. <i>Soil Science Society of America Journal</i> , 2004 , 68, 914-923	2.5	60
96	Manure application technology in reduced tillage and forage systems: a review. <i>Journal of Environmental Quality</i> , 2011 , 40, 292-301	3.4	57
95	Factors influencing surface runoff generation from two agricultural hillslopes in central Pennsylvania. <i>Hydrological Processes</i> , 2009 , 23, 1295-1312	3.3	55
94	ASSESSING THE EFFICACY OF ALTERNATIVE PHOSPHORUS SORBING SOIL AMENDMENTS. <i>Soil Science</i> , 2002 , 167, 539-547	0.9	52
93	Using flue gas desulfurization gypsum to remove dissolved phosphorus from agricultural drainage waters. <i>Journal of Environmental Quality</i> , 2012 , 41, 664-71	3.4	50
92	Interlaboratory comparison of soil phosphorus extracted by various soil test methods. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 2325-2345	1.5	44
91	Low-disturbance manure incorporation effects on ammonia and nitrate loss. <i>Journal of Environmental Quality</i> , 2012 , 41, 928-37	3.4	43
90	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	2.5	43
89	INNOVATIVE MANAGEMENT OF AGRICULTURAL PHOSPHORUS TO PROTECT SOIL AND WATER RESOURCES. <i>Communications in Soil Science and Plant Analysis</i> , 2001 , 32, 1071-1100	1.5	43

88	Phosphorus leaching from agricultural soils of the delmarva peninsula, USA. <i>Journal of Environmental Quality</i> , 2015 , 44, 524-34	3.4	41
87	PHOSPHORUS LEACHING THROUGH INTACT SOIL COLUMNS BEFORE AND AFTER POULTRY MANURE APPLICATION. <i>Soil Science</i> , 2005 , 170, 153-166	0.9	41
86	Predicting phosphorus dynamics in complex terrains using a variable source area hydrology model. <i>Hydrological Processes</i> , 2015 , 29, 588-601	3.3	40
85	Improved Simulation of Edaphic and Manure Phosphorus Loss in SWAT. <i>Journal of Environmental Quality</i> , 2016 , 45, 1215-25	3.4	39
84	The Persistent Environmental Relevance of Soil Phosphorus Sorption Saturation. <i>Current Pollution Reports</i> , 2017 , 3, 141-150	7.6	37
83	Development of a Water-Extractable Phosphorus Test for Manure. <i>Soil Science Society of America Journal</i> , 2005 , 69, 695-700	2.5	37
82	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	3.4	33
81	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	3.3	32
80	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	10.2	32
79	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Physiography and history. <i>Water Resources Research</i> , 2011 , 47,	5.4	31
78	Celebrating the 350th Anniversary of Phosphorus Discovery: A Conundrum of Deficiency and Excess. <i>Journal of Environmental Quality</i> , 2018 , 47, 774-777	3.4	31
77	A review of regulations and guidelines related to winter manure application. <i>Ambio</i> , 2018 , 47, 657-670	6.5	30
76	Phosphorus and the Chesapeake Bay: Lingering Issues and Emerging Concerns for Agriculture. <i>Journal of Environmental Quality</i> , 2019 , 48, 1191-1203	3.4	29
75	Integrating contributing areas and indexing phosphorus loss from agricultural watersheds. <i>Journal of Environmental Quality</i> , 2008 , 37, 1488-96	3.4	29
74	Evaluation of Phosphorus Site Assessment Tools: Lessons from the USA. <i>Journal of Environmental Quality</i> , 2017 , 46, 1250-1256	3.4	28
73	Sources of Uncertainty Affecting Soil Organic Carbon Estimates in Northern New York. <i>Soil Science Society of America Journal</i> , 2003 , 67, 1206-1212	2.5	27
72	Occurrence of arsenic and phosphorus in ditch flow from litter-amended soils and barn areas. <i>Journal of Environmental Quality</i> , 2010 , 39, 2080-8	3.4	26
71	Manuresheds: Advancing nutrient recycling in US agriculture. <i>Agricultural Systems</i> , 2020 , 182, 102813	6.1	24

70	Runoff losses of sediment and phosphorus from no-till and cultivated soils receiving dairy manure. <i>Journal of Environmental Quality</i> , 2010 , 39, 1762-70	3.4	24
69	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	1.5	24
68	Seasonal Manure Application Timing and Storage Effects on Field- and Watershed-Level Phosphorus Losses. <i>Journal of Environmental Quality</i> , 2017 , 46, 1403-1412	3.4	23
67	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	1.9	23
66	Influence of soil phosphorus and manure on phosphorus leaching in Swedish topsoils. <i>Nutrient Cycling in Agroecosystems</i> , 2013 , 96, 133-147	3.3	21
65	Consistency of the Threshold Phosphorus Saturation Ratio across a Wide Geographic Range of Acid Soils 2018 , 1, 1-8		20
64	Effect of dairy manure slurry application in a no-till system on phosphorus runoff. <i>Nutrient Cycling in Agroecosystems</i> , 2011 , 90, 201-212	3.3	19
63	Spatial variation of soil phosphorus within a drainage ditch network. <i>Journal of Environmental Quality</i> , 2007 , 36, 1096-104	3.4	19
62	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 [†]		18
61	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, 1413-20	3.4	18
60	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	4.2	17
59	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils 2004 , 68, 914		17
58	Using rare earth elements to control phosphorus and track manure in runoff. <i>Journal of Environmental Quality</i> , 2010 , 39, 1028-35	3.4	16
57	Impact of Dredging on Phosphorus Transport in Agricultural Drainage Ditches of the Atlantic Coastal Plain1. <i>Journal of the American Water Resources Association</i> , 2008 , 44, 1500-1511	2.1	16
56	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils 2003 , 67, 215		16
55	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	3.3	16
54	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. <i>Geochemical Transactions</i> , 2018 , 19, 7	3	15
53	Water-Extractable Phosphorus in Animal Manure and Manure Compost: Quantities, Characteristics, and Temporal Changes. <i>Journal of Environmental Quality</i> , 2018 , 47, 471-479	3.4	13

52	Novel manure management technologies in no-till and forage introduction to the special series. <i>Journal of Environmental Quality</i> , 2011 , 40, 287-91	3-4	13
51	Phosphorus runoff losses from subsurface-applied poultry litter on coastal plain soils. <i>Journal of Environmental Quality</i> , 2011 , 40, 412-20	3-4	13
50	Phosphorus and nitrogen leaching before and after tillage and urea application. <i>Journal of Environmental Quality</i> , 2015 , 44, 560-71	3-4	12
49	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	3-4	12
48	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	3-4	11
47	Vertical distribution of phosphorus in agricultural drainage ditch soils. <i>Journal of Environmental Quality</i> , 2007 , 36, 1895-903	3-4	11
46	Regional environmental assessment of dairy farms. <i>Journal of Dairy Science</i> , 2020 , 103, 3275-3288	4	11
45	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	3-4	11
44	Short-term Forecasting Tools for Agricultural Nutrient Management. <i>Journal of Environmental Quality</i> , 2017 , 46, 1257-1269	3-4	10
43	Management characteristics of Pennsylvania dairy farms. <i>Applied Animal Science</i> , 2019 , 35, 325-338	1.2	10
42	Temperature and Nitrogen Effects on Phosphorus Uptake by Agricultural Stream-Bed Sediments. <i>Journal of Environmental Quality</i> , 2017 , 46, 295-301	3-4	10
41	Subsurface Application Enhances Benefits of Manure Redistribution. <i>Agricultural and Environmental Letters</i> , 2016 , 1, 150003	1.5	10
40	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. <i>Journal of Hydrology</i> , 2020 , 588, 125021	6	9
39	Urea Release by Intermittently Saturated Sediments from a Coastal Agricultural Landscape. <i>Journal of Environmental Quality</i> , 2017 , 46, 302-310	3-4	9
38	Managing crop nutrients to achieve water quality goals. <i>Journal of Soils and Water Conservation</i> , 2019 , 74, 91A-101A	2.2	9
37	A protocol for conducting rainfall simulation to study soil runoff. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	8
36	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,	5-4	8
35	: Illuminating the Past and Future of Phosphorus Stewardship. <i>Journal of Environmental Quality</i> , 2019 , 48, 1127-1132	3-4	8

34	Managing Agricultural Phosphorus for Environmental Protection. <i>Agronomy</i> , 2015 , 1021-1068	0.8	7
33	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	5.7	7
32	Varying Influence of Dairy Manure Injection on Phosphorus Loss in Runoff over Four Years. <i>Journal of Environmental Quality</i> , 2019 , 48, 450-458	3.4	6
31	Chemical and Isotopic Tracers Illustrate Pathways of Nitrogen Loss in Cranberry Floodwaters. <i>Journal of Environmental Quality</i> , 2015 , 44, 1326-32	3.4	6
30	Impact of Irrigation, Nitrogen Fertilization, and Spatial Management on Maize. <i>Agronomy Journal</i> , 2016 , 108, 1794-1804	2.2	6
29	Environmental assessment of United States dairy farms. <i>Journal of Cleaner Production</i> , 2021 , 315, 128153	3.0	6
28	Phosphorus and nitrogen losses from poultry litter stacks and leaching through soils. <i>Nutrient Cycling in Agroecosystems</i> , 2015 , 103, 101-114	3.3	4
27	An environmental assessment of grass-based dairy production in the northeastern United States. <i>Agricultural Systems</i> , 2020 , 184, 102887	6.1	4
26	FRST: A national soil testing database to improve fertility recommendations. <i>Agricultural and Environmental Letters</i> , 2020 , 5, e20008	1.5	4
25	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	1.5	4
24	Reducing Unintended Consequences of Agricultural Phosphorus 2019 , 103, 33-35		4
23	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	1.5	4
22	Declining Atmospheric Sulfate Deposition in an Agricultural Watershed in Central Pennsylvania, USA. <i>Agricultural and Environmental Letters</i> , 2016 , 1, 160039	1.5	3
21	Managing Surface Water Inputs to Reduce Phosphorus Loss from Cranberry Farms. <i>Journal of Environmental Quality</i> , 2017 , 46, 1472-1479	3.4	3
20	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,	5.4	3
19	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	2.1	3
18	The USDA-ARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. <i>Water Resources Research</i> , 2021 , 57, e2019WR026473	5.4	3
17	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	0.8	3

16	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,	5.4	2
15	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	1.5	2
14	Managing Animal Manure to Minimize Phosphorus Losses from Land to Water. <i>ASA Special Publication</i> , 201-228	1.1	2
13	Poultry manured management: Opportunities and challenges for a vertically integrated industry. <i>Journal of Environmental Quality</i> , 2021 ,	3.4	2
12	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	3.4	1
11	A Protocol for Collecting and Constructing Soil Core Lysimeters. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	1
10	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	0.8	1
9	Elements of Precision Manure Management. <i>Agronomy</i> , 2018 , 165-192	0.8	1
8	Minimum dataset and metadata guidelines for soil-test correlation and calibration research. <i>Soil Science Society of America Journal</i> ,	2.5	1
7	Subsurface application enhances benefits of manure redistribution. <i>Crops & Soils</i> , 2016 , 49, 48-51	0.3	0
6	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	2.5	0
5	Development of a soil test correlation and calibration database for the USA. <i>Agricultural and Environmental Letters</i> , 2021 , 6,	1.5	0
4	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	4.2	0
3	The Agricultural Conservation Planning Framework: Opportunities and challenges in the eastern United States. <i>Agricultural and Environmental Letters</i> , 2021 , 6, e20054	1.5	0
2	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	3.4	0
1	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	