Peter J A Kleinman

List of Publications by Year
in descending order

137	7,158	66343	62596
papers	citations	42 h-index	80 g-index

139	139	139	4823
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Poultry manureshed management: Opportunities and challenges for a vertically integrated industry. Journal of Environmental Quality, 2022, 51, 540-551.	2.0	15
2	Minimum dataset and metadata guidelines for soilâ€test correlation and calibration research. Soil Science Society of America Journal, 2022, 86, 19-33.	2.2	13
3	The social networks of manureshed management. Journal of Environmental Quality, 2022, 51, 566-579.	2.0	5
4	Culturable antibiotic resistant fecal coliform bacteria in soil and surface runoff following liquid dairy manure surface application and subsurface injection. Journal of Environmental Quality, 2022, , .	2.0	1
5	Opportunities to implement manureshed management in the Iowa, North Carolina, and Pennsylvania swine industry. Journal of Environmental Quality, 2022, 51, 510-520.	2.0	6
6	Long term agroecosystem research experimental watershed network. Hydrological Processes, 2022, 36, .	2.6	1
7	Challenges and opportunities for manureshed management across U.S. dairy systems: Case studies from four regions. Journal of Environmental Quality, 2022, 51, 521-539.	2.0	6
8	Recycling nutrients in the beef supply chain through circular manuresheds: Data to assess tradeoffs. Journal of Environmental Quality, 2022, 51, 494-509.	2.0	6
9	Applying the NWSâ€™s Distributed Hydrologic Model to Short-Range Forecasting of Quickflow in the Mahantango Creek Watershed. Journal of Hydrometeorology, 2022, 23, 1257-1280.	1.9	2
10	Envisioning the manureshed: Toward comprehensive integration of modern crop and animal production. Journal of Environmental Quality, 2022, 51, 481-493.	2.0	8
11	The USDAâ€ARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. Water Resources Research, 2021, 57, e2019WR026473.	4.2	11
12	The Agricultural Conservation Planning Framework: Opportunities and challenges in the eastern United States. Agricultural and Environmental Letters, 2021, 6, e20054.	1.2	2
13	Transforming the Culture of Data Management in a Federal Science Agency, One Client at a Time. CSA News, 2021, 66, 44-47.	0.0	0
14	One size does not fit all: Toward regional conservation practice guidance to reduce phosphorus loss risk in the Lake Erie watershed. Journal of Environmental Quality, 2021, 50, 529-546.	2.0	38
15	Nitrogen dynamics after low-emission applications of dairy slurry or fertilizer on perennial grass: a long term field study employing natural abundance of Î´15N. Plant and Soil, 2021, 465, 415-430.	3.7	3
16	Estimating dissolved phosphorus losses from legacy sources in pastures: The limits of soil tests and smallâ€scale rainfall simulators. Journal of Environmental Quality, 2021, 50, 1042-1062.	2.0	2
17	Land use change and collaborative manureshed management in New Mexico. Journal of Environmental Quality, 2021, , .	2.0	6
18	Environmental assessment of United States dairy farms. Journal of Cleaner Production, 2021, 315, 128153.	9.3	32

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19	The Partnerships for Data Innovations (PDI): Facilitating data stewardship and catalyzing research engagement in the digital age. Agricultural and Environmental Letters, 2021, 6, e20055.	1.2	5
20	Development of a soil test correlation and calibration database for the USA. Agricultural and Environmental Letters, 2021, 6, .	1.2	5
21	Regional environmental assessment of dairy farms. Journal of Dairy Science, 2020, 103, 3275-3288.	3.4	21
22	Pilot-Scale Investigation of Phosphorus Removal from Swine Manure by the MAnure PHosphorus EXtraction (MAPHEX) System. Applied Engineering in Agriculture, 2020, 36, 525-531.	0.7	3
23	Manuresheds: Advancing nutrient recycling in US agriculture. Agricultural Systems, 2020, 182, 102813.	6.1	75
24	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. Journal of Hydrology, 2020, 588, 125021.	5.4	24
25	Addressing the spatial disconnect between nationalâ€scale total maximum daily loads and localized land management decisions. Journal of Environmental Quality, 2020, 49, 613-627.	2.0	16
26	An environmental assessment of grass-based dairy production in the northeastern United States. Agricultural Systems, 2020, 184, 102887.	6.1	11
27	FRST: A national soil testing database to improve fertility recommendations. Agricultural and Environmental Letters, 2020, 5, e20008.	1.2	13
28	Phosphorus and the Chesapeake Bay: Lingering Issues and Emerging Concerns for Agriculture. Journal of Environmental Quality, 2019, 48, 1191-1203.	2.0	48
29	Impacts of Cover Crops and Crop Residues on Phosphorus Losses in Cold Climates: A Review. Journal of Environmental Quality, 2019, 48, 850-868.	2.0	62
30	Managing crop nutrients to achieve water quality goals. Journal of Soils and Water Conservation, 2019, 74, 91A-101A.	1.6	14
31	Management characteristics of Pennsylvania dairy farms. Applied Animal Science, 2019, 35, 325-338.	1.2	20
32	Varying Influence of Dairy Manure Injection on Phosphorus Loss in Runoff over Four Years. Journal of Environmental Quality, 2019, 48, 450-458.	2.0	11
33	Phosphorus mirabilis: Illuminating the Past and Future of Phosphorus Stewardship. Journal of Environmental Quality, 2019, 48, 1127-1132.	2.0	13
34	Urea Fluctuations in Stream Baseflow across Land Cover Gradients and Seasons in a Coastal Plain River System. Journal of the American Water Resources Association, 2019, 55, 228-246.	2.4	4
35	Load-discharge relationships reveal the efficacy of manure application practices on phosphorus and total solids losses from agricultural fields. Agriculture, Ecosystems and Environment, 2019, 272, 19-28.	5.3	10
36	Reducing Unintended Consequences of Agricultural Phosphorus. , 2019, 103, 33-35.		5

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37	A review of regulations and guidelines related to winter manure application. Ambio, 2018, 47, 657-670.	5.5	45
38	Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. Geochemical Transactions, 2018, 19, 7.	0.7	28
39	Consistency of the Threshold Phosphorus Saturation Ratio across a Wide Geographic Range of Acid Soils. , 2018, 1, 1-8.		35
40	Celebrating the 350th Anniversary of Phosphorus Discovery: A Conundrum of Deficiency and Excess. Journal of Environmental Quality, 2018, 47, 774-777.	2.0	48
41	Impact of climate change and climate anomalies on hydrologic and biogeochemical processes in an agricultural catchment of the Chesapeake Bay watershed, USA. Science of the Total Environment, 2018, 637-638, 1443-1454.	8.0	57
42	Versatility of the MAnure PHosphorus EXtraction (MAPHEX) System in Removing Phosphorus, Odor, Microbes, and Alkalinity from Dairy Manures: A Four-Farm Case Study. Applied Engineering in Agriculture, 2018, 34, 567-572.	0.7	7
43	Waterâ€Extractable Phosphorus in Animal Manure and Manure Compost: Quantities, Characteristics, and Temporal Changes. Journal of Environmental Quality, 2018, 47, 471-479.	2.0	21
44	Short communication: Identifying challenges and opportunities for improved nutrient management through the USDA's Dairy Agroecosystem Working Group. Journal of Dairy Science, 2018, 101, 6632-6641.	3.4	24
45	Shortâ€term Forecasting Tools for Agricultural Nutrient Management. Journal of Environmental Quality, 2017, 46, 1257-1269.	2.0	20
46	The Persistent Environmental Relevance of Soil Phosphorus Sorption Saturation. Current Pollution Reports, 2017, 3, 141-150.	6.6	57
47	Evaluation of Phosphorus Site Assessment Tools: Lessons from the USA. Journal of Environmental Quality, 2017, 46, 1250-1256.	2.0	39
48	Managing Surface Water Inputs to Reduce Phosphorus Loss from Cranberry Farms. Journal of Environmental Quality, 2017, 46, 1472-1479.	2.0	3
49	Elements of Precision Manure Management. Agronomy, 2017, , .	0.2	0
50	Temperature and Nitrogen Effects on Phosphorus Uptake by Agricultural Streamâ€Bed Sediments. Journal of Environmental Quality, 2017, 46, 295-301.	2.0	15
51	Hydrology and Soil Manipulations of Ironâ€Rich Ditch Mesocosms Provide Little Evidence of Phosphorus Capture within the Profile. Journal of Environmental Quality, 2017, 46, 596-604.	2.0	1
52	Urea Release by Intermittently Saturated Sediments from a Coastal Agricultural Landscape. Journal of Environmental Quality, 2017, 46, 302-310.	2.0	10
53	Seasonal Manure Application Timing and Storage Effects on Fieldâ€and Watershedâ€Level Phosphorus Losses. Journal of Environmental Quality, 2017, 46, 1403-1412.	2.0	31
54	Declining Atmospheric Sulfate Deposition in an Agricultural Watershed in Central Pennsylvania, USA. Agricultural and Environmental Letters, 2016, 1, 160039.	1.2	7

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55	Suburface application enhances benefits of manure redistribution. Crops & Soils, 2016, 49, 48-51.	0.2	1
56	Estrogen Transport in Surface Runoff from Agricultural Fields Treated with Two Application Methods of Dairy Manure. Journal of Environmental Quality, 2016, 45, 2007-2015.	2.0	15
57	Distant Views and Local Realities: The Limits of Global Assessments to Restore the Fragmented Phosphorus Cycle. Agricultural and Environmental Letters, 2016, 1, 160024.	1.2	32
58	Reducing Phosphorus Runoff and Leaching from Poultry Litter with Alum: Twentyâ€Year Small Plot and Pairedâ€Watershed Studies. Journal of Environmental Quality, 2016, 45, 1413-1420.	2.0	21
59	Improved Simulation of Edaphic and Manure Phosphorus Loss in SWAT. Journal of Environmental Quality, 2016, 45, 1215-1225.	2.0	42
60	Subsurface Application Enhances Benefits of Manure Redistribution. Agricultural and Environmental Letters, 2016, 1, 150003.	1.2	15
61	Impact of Irrigation, Nitrogen Fertilization, and Spatial Management on Maize. Agronomy Journal, 2016, 108, 1794-1804.	1.8	7
62	Improving the spatial representation of soil properties and hydrology using topographically derived initialization processes in the SWAT model. Hydrological Processes, 2016, 30, 4633-4643.	2.6	20
63	A Protocol for Collecting and Constructing Soil Core Lysimeters. Journal of Visualized Experiments, 2016, , .	0.3	1
64	Phosphorus Transport in Agricultural Subsurface Drainage: A Review. Journal of Environmental Quality, 2015, 44, 467-485.	2.0	358
65	Predicting phosphorus dynamics in complex terrains using a variable source area hydrology model. Hydrological Processes, 2015, 29, 588-601.	2.6	54
66	Phosphorus Fate, Management, and Modeling in Artificially Drained Systems. Journal of Environmental Quality, 2015, 44, 460-466.	2.0	85
67	The Pivotal Role of Phosphorus in a Resilient Water-Energy-Food Security Nexus. Journal of Environmental Quality, 2015, 44, 1049-1062.	2.0	125
68	Phosphorus Leaching from Agricultural Soils of the Delmarva Peninsula, USA. Journal of Environmental Quality, 2015, 44, 524-534.	2.0	44
69	Managing Agricultural Phosphorus for Environmental Protection. Agronomy, 2015, , 1021-1068.	0.2	18
70	Chemical and Isotopic Tracers Illustrate Pathways of Nitrogen Loss in Cranberry Floodwaters. Journal of Environmental Quality, 2015, 44, 1326-1332.	2.0	6
71	Phosphorus and Nitrogen Leaching Before and After Tillage and Urea Application. Journal of Environmental Quality, 2015, 44, 560-571.	2.0	15
72	Implementing agricultural phosphorus science and management to combat eutrophication. Ambio, 2015, 44, 297-310.	5.5	164

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73	Phosphorus and nitrogen losses from poultry litter stacks and leaching through soils. Nutrient Cycling in Agroecosystems, 2015, 103, 101-114.	2.2	4
74	A Protocol for Conducting Rainfall Simulation to Study Soil Runoff. Journal of Visualized Experiments, 2014, , .	0.3	12
75	Influence of soil phosphorus and manure on phosphorus leaching in Swedish topsoils. Nutrient Cycling in Agroecosystems, 2013, 96, 133-147.	2.2	27
76	Water Quality Remediation Faces Unprecedented Challenges from â€œLegacy Phosphorusâ€• Environmental Science & Technology, 2013, 47, 8997-8998.	10.0	228
77	Phosphorus Legacy: Overcoming the Effects of Past Management Practices to Mitigate Future Water Quality Impairment. Journal of Environmental Quality, 2013, 42, 1308-1326.	2.0	706
78	Low-Disturbance Manure Incorporation Effects on Ammonia and Nitrate Loss. Journal of Environmental Quality, 2012, 41, 928-937.	2.0	60
79	Using Flue Gas Desulfurization Gypsum to Remove Dissolved Phosphorus from Agricultural Drainage Waters. Journal of Environmental Quality, 2012, 41, 664-671.	2.0	65
80	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Physiography and history. Water Resources Research, 2011, 47, .	4.2	42
81	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Longâ€term precipitation database. Water Resources Research, 2011, 47, .	4.2	7
82	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Longâ€term stream discharge database. Water Resources Research, 2011, 47, .	4.2	9
83	U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Longâ€term water quality database. Water Resources Research, 2011, 47, .	4.2	11
84	Manure Application Technology in Reduced Tillage and Forage Systems: A Review. Journal of Environmental Quality, 2011, 40, 292-301.	2.0	86
85	Novel Manure Management Technologies in Noâ€Till and Forage Systems: Introduction to the Special Series. Journal of Environmental Quality, 2011, 40, 287-291.	2.0	24
86	Soil controls of phosphorus in runoff: Management barriers and opportunities. Canadian Journal of Soil Science, 2011, 91, 329-338.	1.2	154
87	Effect of dairy manure slurry application in a no-till system on phosphorus runoff. Nutrient Cycling in Agroecosystems, 2011, 90, 201-212.	2.2	21
88	Managing agricultural phosphorus for water quality protection: principles for progress. Plant and Soil, 2011, 349, 169-182.	3.7	226
89	Effect of Coal Combustion By-products on Phosphorus Runoff from a Coastal Plain Soil. Communications in Soil Science and Plant Analysis, 2011, 42, 778-789.	1.4	4
90	Critical source area management of agricultural phosphorus: experiences, challenges and opportunities. Water Science and Technology, 2011, 64, 945-952.	2.5	87

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91	Phosphorus Runoff Losses from Subsurfaceâ€Applied Poultry Litter on Coastal Plain Soils. Journal of Environmental Quality, 2011, 40, 412-420.	2.0	16
92	A Phosphorus Transport Study: Influence of Poultry Litter Application Method on Leaching. , 2010, , .		1
93	Subsurface Manure Application to Reduce Ammonia Emissions. , 2010, , .		0
94	Using Rare Earth Elements to Control Phosphorus and Track Manure in Runoff. Journal of Environmental Quality, 2010, 39, 1028-1035.	2.0	20
95	Occurrence of Arsenic and Phosphorus in Ditch Flow from Litterâ€amended Soils and Barn Areas. Journal of Environmental Quality, 2010, 39, 2080-2088.	2.0	28
96	Runoff Losses of Sediment and Phosphorus from Noâ€Till and Cultivated Soils Receiving Dairy Manure. Journal of Environmental Quality, 2010, 39, 1762-1770.	2.0	31
97	Effects of Hydrology and Field Management on Phosphorus Transport in Surface Runoff. Journal of Environmental Quality, 2009, 38, 2273-2284.	2.0	84
98	Evaluating the Success of Phosphorus Management from Field to Watershed. Journal of Environmental Quality, 2009, 38, 1981-1988.	2.0	119
99	Factors influencing surface runoff generation from two agricultural hillslopes in central Pennsylvania. Hydrological Processes, 2009, 23, 1295-1312.	2.6	64
100	Phosphorus runoff from a phosphorus deficient soil under common bean (Phaseolus vulgaris L.) and soybean (Glycine max L.) genotypes with contrasting root architecture. Plant and Soil, 2009, 317, 1-16.	3.7	23
101	Application of manure to no-till soils: phosphorus losses by sub-surface and surface pathways. Nutrient Cycling in Agroecosystems, 2009, 84, 215-227.	2.2	121
102	Impact of Dredging on Phosphorus Transport in Agricultural Drainage Ditches of the Atlantic Coastal Plain¹. Journal of the American Water Resources Association, 2008, 44, 1500-1511.	2.4	18
103	Integrating Contributing Areas and Indexing Phosphorus Loss from Agricultural Watersheds. Journal of Environmental Quality, 2008, 37, 1488-1496.	2.0	35
104	Field Olfactometry Assessment of Dairy Manure Land Application Methods. , 2008, , .		0
105	Selection of a Waterâ€Extractable Phosphorus Test for Manures and Biosolids as an Indicator of Runoff Loss Potential. Journal of Environmental Quality, 2007, 36, 1357-1367.	2.0	90
106	Spatial Variation of Soil Phosphorus within a Drainage Ditch Network. Journal of Environmental Quality, 2007, 36, 1096-1104.	2.0	21
107	Vertical Distribution of Phosphorus in Agricultural Drainage Ditch Soils. Journal of Environmental Quality, 2007, 36, 1895-1903.	2.0	12
108	Environmental and Economic Comparisons of Manure Application Methods on Dairy Farms. , 2007, , .		2

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109	Phosphorus leaching through intact soil cores as influenced by type and duration of manure application. Nutrient Cycling in Agroecosystems, 2007, 77, 269-281.	2.2	34
110	Role of Rainfall Intensity and Hydrology in Nutrient Transport via Surface Runoff. Journal of Environmental Quality, 2006, 35, 1248-1259.	2.0	160
111	Evaluating the Influence of Storage Time, Sampleâ€handling Method, and Filter Paper on the Measurement of Waterâ€Extractable Phosphorus in Animal Manures. Communications in Soil Science and Plant Analysis, 2006, 37, 451-463.	1.4	3
112	PHOSPHORUS LEACHING THROUGH INTACT SOIL COLUMNS BEFORE AND AFTER POULTRY MANURE APPLICATION. Soil Science, 2005, 170, 153-166.	0.9	45
113	Freeze-Thaw Effects on Phosphorus Loss in Runoff from Manured and Catch-Cropped Soils. Journal of Environmental Quality, 2005, 34, 2301-2309.	2.0	159
114	Development of a Water-Extractable Phosphorus Test for Manure. Soil Science Society of America Journal, 2005, 69, 695-700.	2.2	41
115	Survey of Water-Extractable Phosphorus in Livestock Manures. Soil Science Society of America Journal, 2005, 69, 701-708.	2.2	122
116	Response to â€œComments on â€˜Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manureâ€™â€• Soil Science Society of America Journal, 2005, 69, 1355-1355.	2.2	2
117	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. Soil Science Society of America Journal, 2004, 68, 914-923.	2.2	74
118	Evaluation of Phosphorus Transport in Surface Runoff from Packed Soil Boxes. Journal of Environmental Quality, 2004, 33, 1413.	2.0	90
119	Assessment of best management practices to minimise the runoff of manureâ€borne phosphorus in the United States. New Zealand Journal of Agricultural Research, 2004, 47, 461-477.	1.6	30
120	Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. Soil Science Society of America Journal, 2004, 68, 2048-2057.	2.2	223
121	Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. Soil Science Society of America Journal, 2004, 68, 914.	2.2	20
122	Effect of Rainfall Simulator and Plot Scale on Overland Flow and Phosphorus Transport. Journal of Environmental Quality, 2003, 32, 2172-2179.	2.0	159
123	Sources of Uncertainty Affecting Soil Organic Carbon Estimates in Northern New York. Soil Science Society of America Journal, 2003, 67, 1206-1212.	2.2	32
124	Effect of Broadcast Manure on Runoff Phosphorus Concentrations over Successive Rainfall Events. Journal of Environmental Quality, 2003, 32, 1072-1081.	2.0	174
125	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. Soil Science Society of America Journal, 2003, 67, 215-224.	2.2	59
126	Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. Soil Science Society of America Journal, 2003, 67, 215.	2.2	18

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127	Estimating soil phosphorus sorption saturation from Mehlich-3 data. Communications in Soil Science and Plant Analysis, 2002, 33, 1825-1839.	1.4	110
128	Effect of Mineral and Manure Phosphorus Sources on Runoff Phosphorus. Journal of Environmental Quality, 2002, 31, 2026-2033.	2.0	263
129	ASSESSING THE EFFICACY OF ALTERNATIVE PHOSPHORUS SORBING SOIL AMENDMENTS. Soil Science, 2002, 167, 539-547.	0.9	62
130	Measuring Waterâ€Extractable Phosphorus in Manure as an Indicator of Phosphorus in Runoff. Soil Science Society of America Journal, 2002, 66, 2009-2015.	2.2	165
131	INNOVATIVE MANAGEMENT OF AGRICULTURAL PHOSPHORUS TO PROTECT SOIL AND WATER RESOURCES. Communications in Soil Science and Plant Analysis, 2001, 32, 1071-1100.	1.4	54
132	Assessing Site Vulnerability to Phosphorus Loss in an Agricultural Watershed. Journal of Environmental Quality, 2001, 30, 2026-2036.	2.0	148
133	Phosphorus loss from land to water: integrating agricultural and environmental management. Plant and Soil, 2001, 237, 287-307.	3.7	327
134	Interlaboratory comparison of soil phosphorus extracted by various soil test methods. Communications in Soil Science and Plant Analysis, 2001, 32, 2325-2345.	1.4	52
135	USING SOIL PHOSPHORUS BEHAVIOR TO IDENTIFY ENVIRONMENTAL THRESHOLDS. Soil Science, 2000, 165, 943-950.	0.9	73
136	Elements of Precision Manure Management. Agronomy, 0, , 165-192.	0.2	6
137	Managing Animal Manure to Minimize Phosphorus Losses from Land to Water. ASA Special Publication, 0, , 201-228.	0.8	6