# Peter J A Kleinman

## List of Publications by Year in Descending Order



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| 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 | Development of a soil test correlation and calibration database for the USA. *Agricultural and Environmental Letters*, **2021**, 6, | 1.5 | 0 |
| 122 | The Partnerships for Data Innovations (PDI): Facilitating data stewardship and catalyzing research engagement in the digital age. *Agricultural and Environmental Letters*, **2021**, 6, e20055 | 1.5 | 4 |
| 121 | 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 | 3.4 | 11 |
| 120 | Nitrogen dynamics after low-emission applications of dairy slurry or fertilizer on perennial grass: a long term field study employing natural abundance of δ15N. *Plant and Soil*, **2021**, 465, 415-430 | 4.2 | 0 |
| 119 | The USDA-ARS Experimental Watershed Network: Evolution, Lessons Learned, Societal Benefits, and Moving Forward. *Water Resources Research*, **2021**, 57, e2019WR026473 | 5.4 | 3 |
| 118 | The Agricultural Conservation Planning Framework: Opportunities and challenges in the eastern United States. *Agricultural and Environmental Letters*, **2021**, 6, e20054 | 1.5 | 0 |
| 117 | Transforming the Culture of Data Management in a Federal Science Agency, One Client at a Time. *CSA News*, **2021**, 66, 44-47 | 0.1 | |
| 116 | Estimating dissolved phosphorus losses from legacy sources in pastures: The limits of soil tests and small-scale rainfall simulators. *Journal of Environmental Quality*, **2021**, 50, 1042-1062 | 3.4 | 0 |
| 115 | Poultry manureshed management: Opportunities and challenges for a vertically integrated industry. *Journal of Environmental Quality*, **2021**, | 3.4 | 2 |
| 114 | Environmental assessment of United States dairy farms. *Journal of Cleaner Production*, **2021**, 315, 128153 | 10.3 | 6 |
| 113 | Manuresheds: Advancing nutrient recycling in US agriculture. *Agricultural Systems*, **2020**, 182, 102813 | 6.1 | 24 |
| 112 | Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. *Journal of Hydrology*, **2020**, 588, 125021 | 6 | 9 |
| 111 | Addressing the spatial disconnect between national-scale total maximum daily loads and localized land management decisions. *Journal of Environmental Quality*, **2020**, 49, 613-627 | 3.4 | 11 |
| 110 | An environmental assessment of grass-based dairy production in the northeastern United States. *Agricultural Systems*, **2020**, 184, 102887 | 6.1 | 4 |
| 109 | FRST: A national soil testing database to improve fertility recommendations. *Agricultural and Environmental Letters*, **2020**, 5, e20008 | 1.5 | 4 |
| 108 | Regional environmental assessment of dairy farms. *Journal of Dairy Science*, **2020**, 103, 3275-3288 | 4 | 11 |
| 107 | Pilot-Scale Investigation of Phosphorus Removal from Swine Manure by the MAnure PHosphorus EXtraction (MAPHEX) System. *Applied Engineering in Agriculture*, **2020**, 36, 525-531 | 0.8 | 1 |

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| 106 | Management characteristics of Pennsylvania dairy farms. *Applied Animal Science*, **2019**, 35, 325-338 | 1.2 | 10 |
| 105 | Varying Influence of Dairy Manure Injection on Phosphorus Loss in Runoff over Four Years. *Journal of Environmental Quality*, **2019**, 48, 450-458 | 3.4 | 6 |
| 104 | Phosphorus and the Chesapeake Bay: Lingering Issues and Emerging Concerns for Agriculture. *Journal of Environmental Quality*, **2019**, 48, 1191-1203 | 3.4 | 29 |
| 103 | Impacts of Cover Crops and Crop Residues on Phosphorus Losses in Cold Climates: A Review. *Journal of Environmental Quality*, **2019**, 48, 850-868 | 3.4 | 33 |
| 102 | Managing crop nutrients to achieve water quality goals. *Journal of Soils and Water Conservation*, **2019**, 74, 91A-101A | 2.2 | 9 |
| 101 | Reducing Unintended Consequences of Agricultural Phosphorus **2019**, 103, 33-35 | | 4 |
| 100 | : Illuminating the Past and Future of Phosphorus Stewardship. *Journal of Environmental Quality*, **2019**, 48, 1127-1132 | 3.4 | 8 |
| 99 | 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 | 2.1 | 3 |
| 98 | 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 | 5.7 | 7 |
| 97 | A review of regulations and guidelines related to winter manure application. *Ambio*, **2018**, 47, 657-670 | 6.5 | 30 |
| 96 | Characterizing the phosphorus forms extracted from soil by the Mehlich III soil test. *Geochemical Transactions*, **2018**, 19, 7 | 3 | 15 |
| 95 | Water-Extractable Phosphorus in Animal Manure and Manure Compost: Quantities, Characteristics, and Temporal Changes. *Journal of Environmental Quality*, **2018**, 47, 471-479 | 3.4 | 13 |
| 94 | 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 | 4 | 18 |
| 93 | Consistency of the Threshold Phosphorus Saturation Ratio across a Wide Geographic Range of Acid Soils **2018**, 1, 1-8 | | 20 |
| 92 | Celebrating the 350th Anniversary of Phosphorus Discovery: A Conundrum of Deficiency and Excess. *Journal of Environmental Quality*, **2018**, 47, 774-777 | 3.4 | 31 |
| 91 | Elements of Precision Manure Management. *Agronomy*, **2018**, 165-192 | 0.8 | 1 |
| 90 | 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 | 10.2 | 32 |
| 89 | 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 | 0.8 | 3 |

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| 88 | Short-term Forecasting Tools for Agricultural Nutrient Management. *Journal of Environmental Quality*, **2017**, 46, 1257-1269 | 3.4 | 10 |
| 87 | The Persistent Environmental Relevance of Soil Phosphorus Sorption Saturation. *Current Pollution Reports*, **2017**, 3, 141-150 | 7.6 | 37 |
| 86 | Temperature and Nitrogen Effects on Phosphorus Uptake by Agricultural Stream-Bed Sediments. *Journal of Environmental Quality*, **2017**, 46, 295-301 | 3.4 | 10 |
| 85 | Hydrology and Soil Manipulations of Iron-Rich Ditch Mesocosms Provide Little Evidence of Phosphorus Capture within the Profile. *Journal of Environmental Quality*, **2017**, 46, 596-604 | 3.4 | 1 |
| 84 | Urea Release by Intermittently Saturated Sediments from a Coastal Agricultural Landscape. *Journal of Environmental Quality*, **2017**, 46, 302-310 | 3.4 | 9 |
| 83 | Seasonal Manure Application Timing and Storage Effects on Field- and Watershed-Level Phosphorus Losses. *Journal of Environmental Quality*, **2017**, 46, 1403-1412 | 3.4 | 23 |
| 82 | Evaluation of Phosphorus Site Assessment Tools: Lessons from the USA. *Journal of Environmental Quality*, **2017**, 46, 1250-1256 | 3.4 | 28 |
| 81 | Managing Surface Water Inputs to Reduce Phosphorus Loss from Cranberry Farms. *Journal of Environmental Quality*, **2017**, 46, 1472-1479 | 3.4 | 3 |
| 80 | Declining Atmospheric Sulfate Deposition in an Agricultural Watershed in Central Pennsylvania, USA. *Agricultural and Environmental Letters*, **2016**, 1, 160039 | 1.5 | 3 |
| 79 | Suburface application enhances benefits of manure redistribution. *Crops & Soils*, **2016**, 49, 48-51 | 0.3 | 0 |
| 78 | A Protocol for Collecting and Constructing Soil Core Lysimeters. *Journal of Visualized Experiments*, **2016**, | 1.6 | 1 |
| 77 | Estrogen Transport in Surface Runoff from Agricultural Fields Treated with Two Application Methods of Dairy Manure. *Journal of Environmental Quality*, **2016**, 45, 2007-2015 | 3.4 | 12 |
| 76 | Distant Views and Local Realities: The Limits of Global Assessments to Restore the Fragmented Phosphorus Cycle. *Agricultural and Environmental Letters*, **2016**, 1, 160024 | 1.5 | 24 |
| 75 | Reducing Phosphorus Runoff and Leaching from Poultry Litter with Alum: Twenty-Year Small Plot and Paired-Watershed Studies. *Journal of Environmental Quality*, **2016**, 45, 1413-20 | 3.4 | 18 |
| 74 | Improved Simulation of Edaphic and Manure Phosphorus Loss in SWAT. *Journal of Environmental Quality*, **2016**, 45, 1215-25 | 3.4 | 39 |
| 73 | Subsurface Application Enhances Benefits of Manure Redistribution. *Agricultural and Environmental Letters*, **2016**, 1, 150003 | 1.5 | 10 |
| 72 | Impact of Irrigation, Nitrogen Fertilization, and Spatial Management on Maize. *Agronomy Journal*, **2016**, 108, 1794-1804 | 2.2 | 6 |
| 71 | Improving the spatial representation of soil properties and hydrology using topographically derived initialization processes in the SWAT model. *Hydrological Processes*, **2016**, 30, 4633-4643 | 3.3 | 16 |

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| 70 | Implementing agricultural phosphorus science and management to combat eutrophication. *Ambio*, **2015**, 44 Suppl 2, S297-310 | 6.5 | 133 |
| 69 | Phosphorus and nitrogen losses from poultry litter stacks and leaching through soils. *Nutrient Cycling in Agroecosystems*, **2015**, 103, 101-114 | 3.3 | 4 |
| 68 | Phosphorus transport in agricultural subsurface drainage: a review. *Journal of Environmental Quality*, **2015**, 44, 467-85 | 3.4 | 266 |
| 67 | Predicting phosphorus dynamics in complex terrains using a variable source area hydrology model. *Hydrological Processes*, **2015**, 29, 588-601 | 3.3 | 40 |
| 66 | Phosphorus fate, management, and modeling in artificially drained systems. *Journal of Environmental Quality*, **2015**, 44, 460-6 | 3.4 | 72 |
| 65 | The Pivotal Role of Phosphorus in a Resilient Water-Energy-Food Security Nexus. *Journal of Environmental Quality*, **2015**, 44, 1049-62 | 3.4 | 95 |
| 64 | Phosphorus leaching from agricultural soils of the delmarva peninsula, USA. *Journal of Environmental Quality*, **2015**, 44, 524-34 | 3.4 | 41 |
| 63 | Managing Agricultural Phosphorus for Environmental Protection. *Agronomy*, **2015**, 1021-1068 | 0.8 | 7 |
| 62 | Chemical and Isotopic Tracers Illustrate Pathways of Nitrogen Loss in Cranberry Floodwaters. *Journal of Environmental Quality*, **2015**, 44, 1326-32 | 3.4 | 6 |
| 61 | Phosphorus and nitrogen leaching before and after tillage and urea application. *Journal of Environmental Quality*, **2015**, 44, 560-71 | 3.4 | 12 |
| 60 | A protocol for conducting rainfall simulation to study soil runoff. *Journal of Visualized Experiments*, **2014**, | 1.6 | 8 |
| 59 | Influence of soil phosphorus and manure on phosphorus leaching in Swedish topsoils. *Nutrient Cycling in Agroecosystems*, **2013**, 96, 133-147 | 3.3 | 21 |
| 58 | Water quality remediation faces unprecedented challenges from "legacy phosphorus". *Environmental Science & Technology*, **2013**, 47, 8997-8 | 10.3 | 179 |
| 57 | Phosphorus legacy: overcoming the effects of past management practices to mitigate future water quality impairment. *Journal of Environmental Quality*, **2013**, 42, 1308-26 | 3.4 | 543 |
| 56 | Low-disturbance manure incorporation effects on ammonia and nitrate loss. *Journal of Environmental Quality*, **2012**, 41, 928-37 | 3.4 | 43 |
| 55 | Using flue gas desulfurization gypsum to remove dissolved phosphorus from agricultural drainage waters. *Journal of Environmental Quality*, **2012**, 41, 664-71 | 3.4 | 50 |
| 54 | U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Physiography and history. *Water Resources Research*, **2011**, 47, | 5.4 | 31 |
| 53 | U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Long-term precipitation database. *Water Resources Research*, **2011**, 47, | 5.4 | 3 |

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| 52 | U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Long-term stream discharge database. *Water Resources Research*, **2011** , 47, | 5.4 | 2 |
| 51 | U.S. Department of Agriculture Agricultural Research Service Mahantango Creek Watershed, Pennsylvania, United States: Long-term water quality database. *Water Resources Research*, **2011**, 47, | 5.4 | 8 |
| 50 | Manure application technology in reduced tillage and forage systems: a review. *Journal of Environmental Quality*, **2011**, 40, 292-301 | 3.4 | 57 |
| 49 | Novel manure management technologies in no-till and forage introduction to the special series. *Journal of Environmental Quality*, **2011**, 40, 287-91 | 3.4 | 13 |
| 48 | Soil controls of phosphorus in runoff: Management barriers and opportunities. *Canadian Journal of Soil Science*, **2011**, 91, 329-338 | 1.4 | 126 |
| 47 | Effect of dairy manure slurry application in a no-till system on phosphorus runoff. *Nutrient Cycling in Agroecosystems*, **2011**, 90, 201-212 | 3.3 | 19 |
| 46 | Managing agricultural phosphorus for water quality protection: principles for progress. *Plant and Soil*, **2011**, 349, 169-182 | 4.2 | 174 |
| 45 | 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 | 1.5 | 4 |
| 44 | Critical source area management of agricultural phosphorus: experiences, challenges and opportunities. *Water Science and Technology*, **2011**, 64, 945-52 | 2.2 | 70 |
| 43 | Phosphorus runoff losses from subsurface-applied poultry litter on coastal plain soils. *Journal of Environmental Quality*, **2011**, 40, 412-20 | 3.4 | 13 |
| 42 | Using rare earth elements to control phosphorus and track manure in runoff. *Journal of Environmental Quality*, **2010**, 39, 1028-35 | 3.4 | 16 |
| 41 | Occurrence of arsenic and phosphorus in ditch flow from litter-amended soils and barn areas. *Journal of Environmental Quality*, **2010**, 39, 2080-8 | 3.4 | 26 |
| 40 | Runoff losses of sediment and phosphorus from no-till and cultivated soils receiving dairy manure. *Journal of Environmental Quality*, **2010**, 39, 1762-70 | 3.4 | 24 |
| 39 | Evaluating the success of phosphorus management from field to watershed. *Journal of Environmental Quality*, **2009**, 38, 1981-8 | 3.4 | 95 |
| 38 | Factors influencing surface runoff generation from two agricultural hillslopes in central Pennsylvania. *Hydrological Processes*, **2009**, 23, 1295-1312 | 3.3 | 55 |
| 37 | 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 | 4.2 | 17 |
| 36 | Application of manure to no-till soils: phosphorus losses by sub-surface and surface pathways. *Nutrient Cycling in Agroecosystems*, **2009**, 84, 215-227 | 3.3 | 105 |
| 35 | Effects of hydrology and field management on phosphorus transport in surface runoff. *Journal of Environmental Quality*, **2009**, 38, 2273-84 | 3.4 | 72 |

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| 34 | 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 | 2.1 | 16 |
| 33 | Integrating contributing areas and indexing phosphorus loss from agricultural watersheds. *Journal of Environmental Quality*, **2008**, 37, 1488-96 | 3.4 | 29 |
| 32 | Selection of a water-extractable phosphorus test for manures and biosolids as an indicator of runoff loss potential. *Journal of Environmental Quality*, **2007**, 36, 1357-67 | 3.4 | 74 |
| 31 | Spatial variation of soil phosphorus within a drainage ditch network. *Journal of Environmental Quality*, **2007**, 36, 1096-104 | 3.4 | 19 |
| 30 | Vertical distribution of phosphorus in agricultural drainage ditch soils. *Journal of Environmental Quality*, **2007**, 36, 1895-903 | 3.4 | 11 |
| 29 | Phosphorus leaching through intact soil cores as influenced by type and duration of manure application. *Nutrient Cycling in Agroecosystems*, **2007**, 77, 269-281 | 3.3 | 32 |
| 28 | Evaluating the Influence of Storage Time, Sample-handling Method, and Filter Paper on the Measurement of Water-Extractable Phosphorus in Animal Manures. *Communications in Soil Science and Plant Analysis*, **2006**, 37, 451-463 | 1.5 | 2 |
| 27 | Role of rainfall intensity and hydrology in nutrient transport via surface runoff. *Journal of Environmental Quality*, **2006**, 35, 1248-59 | 3.4 | 128 |
| 26 | PHOSPHORUS LEACHING THROUGH INTACT SOIL COLUMNS BEFORE AND AFTER POULTRY MANURE APPLICATION. *Soil Science*, **2005**, 170, 153-166 | 0.9 | 41 |
| 25 | Freeze-thaw effects on phosphorus loss in runoff from manured and catch-cropped soils. *Journal of Environmental Quality*, **2005**, 34, 2301-9 | 3.4 | 131 |
| 24 | Development of a Water-Extractable Phosphorus Test for Manure. *Soil Science Society of America Journal*, **2005**, 69, 695-700 | 2.5 | 37 |
| 23 | Survey of Water-Extractable Phosphorus in Livestock Manures. *Soil Science Society of America Journal*, **2005**, 69, 701-708 | 2.5 | 101 |
| 22 | Response to Comments on Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure *Soil Science Society of America Journal*, **2005**, 69, 1355-1355 | 2.5 | 0 |
| 21 | Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils. *Soil Science Society of America Journal*, **2004**, 68, 914-923 | 2.5 | 60 |
| 20 | Evaluation of phosphorus transport in surface runoff from packed soil boxes. *Journal of Environmental Quality*, **2004**, 33, 1413-23 | 3.4 | 81 |
| 19 | Assessment of best management practices to minimise the runoff of manure-borne phosphorus in the United States. *New Zealand Journal of Agricultural Research*, **2004**, 47, 461-477 | 1.9 | 23 |
| 18 | Amounts, Forms, and Solubility of Phosphorus in Soils Receiving Manure. *Soil Science Society of America Journal*, **2004**, 68, 2048-2057 | 2.5 | 175 |
| 17 | Surface Runoff along Two Agricultural Hillslopes with Contrasting Soils **2004**, 68, 914 | | 17 |

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| 16 | Effect of rainfall simulator and plot scale on overland flow and phosphorus transport. *Journal of Environmental Quality*, **2003**, 32, 2172-9 | 3.4 | 104 |
| 15 | Sources of Uncertainty Affecting Soil Organic Carbon Estimates in Northern New York. *Soil Science Society of America Journal*, **2003**, 67, 1206-1212 | 2.5 | 27 |
| 14 | Effect of broadcast manure on runoff phosphorus concentrations over successive rainfall events. *Journal of Environmental Quality*, **2003**, 32, 1072-81 | 3.4 | 147 |
| 13 | Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils. *Soil Science Society of America Journal*, **2003**, 67, 215-224 | 2.5 | 43 |
| 12 | Using Soil Phosphorus Profile Data to Assess Phosphorus Leaching Potential in Manured Soils **2003**, 67, 215 | | 16 |
| 11 | Measuring Water-Extractable Phosphorus in Manure as an Indicator of Phosphorus in Runoff. *Soil Science Society of America Journal*, **2002**, 66, 2009-2015 | 2.5 | 143 |
| 10 | Estimating soil phosphorus sorption saturation from Mehlich-3 data. *Communications in Soil Science and Plant Analysis*, **2002**, 33, 1825-1839 | 1.5 | 92 |
| 9 | Effect of mineral and manure phosphorus sources on runoff phosphorus. *Journal of Environmental Quality*, **2002**, 31, 2026-33 | 3.4 | 214 |
| 8 | ASSESSING THE EFFICACY OF ALTERNATIVE PHOSPHORUS SORBING SOIL AMENDMENTS. *Soil Science*, **2002**, 167, 539-547 | 0.9 | 52 |
| 7 | Assessing site vulnerability to phosphorus loss in an agricultural watershed. *Journal of Environmental Quality*, **2001**, 30, 2026-36 | 3.4 | 121 |
| 6 | Phosphorus loss from land to water: integrating agricultural and environmental management. *Plant and Soil*, **2001**, 237, 287-307 | 4.2 | 262 |
| 5 | Interlaboratory comparison of soil phosphorus extracted by various soil test methods. *Communications in Soil Science and Plant Analysis*, **2001**, 32, 2325-2345 | 1.5 | 44 |
| 4 | INNOVATIVE MANAGEMENT OF AGRICULTURAL PHOSPHORUS TO PROTECT SOIL AND WATER RESOURCES. *Communications in Soil Science and Plant Analysis*, **2001**, 32, 1071-1100 | 1.5 | 43 |
| 3 | USING SOIL PHOSPHORUS BEHAVIOR TO IDENTIFY ENVIRONMENTAL THRESHOLDS. *Soil Science*, **2000**, 165, 943-950 | 0.9 | 63 |
| 2 | Managing Animal Manure to Minimize Phosphorus Losses from Land to Water. *ASA Special Publication*,201-228 | 1.1 | 2 |
| 1 | Minimum dataset and metadata guidelines for soil-test correlation and calibration research. *Soil Science Society of America Journal*, | 2.5 | 1 |