Joshua M Mcgrath

List of Publications by Citations

36 papers	883 citations	17 h-index	29 g-index
38 ext. papers	1,020 ext. citations	2.9 avg, IF	3.9 L-index

#	Paper	IF	Citations
36	Strengths and Limitations of Nitrogen Rate Recommendations for Corn and Opportunities for Improvement. *Agronomy Journal*, **2018**, 110, 1-37	2.2	137
35	Broiler diet modification and litter storage: impacts on phosphorus in litters, soils, and runoff. *Journal of Environmental Quality*, **2005**, 34, 1896-909	3.4	67
34	Manure application technology in reduced tillage and forage systems: a review. *Journal of Environmental Quality*, **2011**, 40, 292-301	3.4	57
33	Forest restoration potentials of coal-mined lands in the eastern United States. *Journal of Environmental Quality*, **2011**, 40, 1567-77	3.4	56
32	Phosphorus removal with by-products in a flow-through setting. *Journal of Environmental Quality*, **2012**, 41, 654-63	3.4	50
31	Use of Industrial By-products to Sorb and Retain Phosphorus. *Communications in Soil Science and Plant Analysis*, **2011**, 42, 633-644	1.5	47
30	Trapping phosphorus in runoff with a phosphorus removal structure. *Journal of Environmental Quality*, **2012**, 41, 672-9	3.4	45
29	Phosphorus leaching from agricultural soils of the delmarva peninsula, USA. *Journal of Environmental Quality*, **2015**, 44, 524-34	3.4	41
28	Phosphorus removal structures: A management option for legacy phosphorus. *Journal of Soils and Water Conservation*, **2014**, 69, 51A-56A	2.2	37
27	Predicting Phosphorus Sorption onto Steel Slag Using a Flow-through approach with Application to a Pilot Scale System. *Journal of Water Resource and Protection*, **2011**, 03, 235-244	0.7	35
26	Evaluation of a universal flow-through model for predicting and designing phosphorus removal structures. *Chemosphere*, **2016**, 151, 345-55	8.4	32
25	Surface runoff losses of phosphorus from Virginia soils amended with turkey manure using phytase and high available phosphorus corn diets. *Journal of Environmental Quality*, **2004**, 33, 1431-9	3.4	32
24	Managing manure for sustainable livestock production in the Chesapeake Bay Watershed. *Journal of Soils and Water Conservation*, **2012**, 67, 54A-61A	2.2	31
23	. *Soil Science*, **2003**, 168, 421-433	0.9	27
22	Factors Controlling Phosphorus Mobilization in a Coastal Plain Tributary to the Chesapeake Bay. *Soil Science Society of America Journal*, **2015**, 79, 826-837	2.5	23
21	The impact of alum addition on organic P transformations in poultry litter and litter-amended soil. *Journal of Environmental Quality*, **2008**, 37, 469-76	3.4	23
20	Improved soil biological health increases corn grain yield in N fertilized systems across the Corn Belt. *Scientific Reports*, **2020**, 10, 3917	4.9	17

19	Environmental Factors Structuring Benthic Macroinvertebrate Communities of Agricultural Ditches in Maryland. *Environmental Entomology*, **2012**, 41, 802-812	2.1	16
18	Estimating Legacy Soil Phosphorus Impacts on Phosphorus Loss in the Chesapeake Bay Watershed. *Journal of Environmental Quality*, **2018**, 47, 480-486	3.4	15
17	Quantification of ionophores in aged poultry litter using liquid chromatography tandem mass spectrometry. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2012**, 47, 959-66	2.2	13
16	Phosphorus and nitrogen leaching before and after tillage and urea application. *Journal of Environmental Quality*, **2015**, 44, 560-71	3.4	12
15	Use of Best Management Practices and Pasture and Soil Quality on Maryland Horse Farms. *Journal of Equine Veterinary Science*, **2014**, 34, 257-264	1.2	10
14	Corn Response to Starter Fertilizer With and Without AVAIL. *Crop Management*, **2012**, 11, 1-8		9
13	Assessing Coastal Plain Risk Indices for Subsurface Phosphorus Loss. *Journal of Environmental Quality*, **2017**, 46, 1270-1286	3.4	7
12	Use of Annual Phosphorus Loss Estimator (APLE) Model to Evaluate a Phosphorus Index. *Journal of Environmental Quality*, **2017**, 46, 1380-1387	3.4	7
11	A modelling approach to the design of in situ agricultural drainage filters. *Soil Use and Management*, **2013**, 29, 155-161	3.1	7
10	Modifying broiler diets with phytase and vitamin D metabolite (25-OH D(3)): impact on phosphorus in litter, amended soils, and runoff. *Journal of Environmental Quality*, **2010**, 39, 324-32	3.4	6
9	Effect of Land Application of Phosphorus-Saturated Gypsum on Soil Phosphorus in a Laboratory Incubation. *Applied and Environmental Soil Science*, **2012**, 2012, 1-7	3.8	5
8	FRST: A national soil testing database to improve fertility recommendations. *Agricultural and Environmental Letters*, **2020**, 5, e20008	1.5	4
7	Temporal Variability of Soil Property Dynamics in a Grazed Pasture. *Communications in Soil Science and Plant Analysis*, **2010**, 41, 2744-2754	1.5	4
6	Land application of spent gypsum from ditch filters: phosphorus source or sink?. *Agricultural Sciences*, **2011**, 02, 364-374	0.4	4
5	Evaluating the effectiveness of the phosphorus sorption index for estimating maximum phosphorus sorption capacity. *Soil Science Society of America Journal*, **2020**, 84, 994-1005	2.5	2
4	Chemistry and Application of Industrial By-products to Animal Manure for Reducing Phosphorus Losses to Surface Waters **2014**, 211-238		2
3	A method for predicting participation in a performance-based water quality trading program. *Ecological Economics*, **2020**, 177, 106762	5.6	2
2	Minimum dataset and metadata guidelines for soil-test correlation and calibration research. *Soil Science Society of America Journal*,	2.5	1

1 LINKING SOURCES, TRANSFORMATION, AND LOSS OF PHOSPHORUS IN THE SOIL–WATER CONTINUUM IN A COASTAL ENVIRONMENT **2022**, 183-192