

# Marc I Stutter

## List of Publications by Year in descending order

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43  
papers

1,786  
citations

377584

21  
h-index

312153

41  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Keeping Up with Phosphorus Dynamics: Overdue Conceptual Changes in Vegetative Filter Strip Research and Management. <i>Frontiers in Environmental Science</i> , 2022, 10, .	1.5	6
2	Can Prediction and Understanding of Water Quality Variation Be Improved by Combining Phosphorus Source and Waterbody Condition Parameters?. <i>Frontiers in Water</i> , 2022, 4, .	1.0	2
3	The utility of spatial data to delineate river riparian functions and management zones: A review. <i>Science of the Total Environment</i> , 2021, 757, 143982.	3.9	38
4	A Framework for Assessing Concentrationâ€Discharge Catchment Behavior From Lowâ€Frequency Water Quality Data. <i>Water Resources Research</i> , 2021, 57, e2021WR029692.	1.7	19
5	Phosphorus solubility changes following additions of bioenergy wastes to an agricultural soil: Implications for crop availability and environmental mobility. <i>Geoderma</i> , 2021, 401, 115150.	2.3	10
6	The interactions of site-specific factors on riparian buffer effectiveness across multiple pollutants: A review. <i>Science of the Total Environment</i> , 2021, 798, 149238.	3.9	16
7	Phosphorus leaching from riparian soils with differing management histories under three grass species. <i>Journal of Environmental Quality</i> , 2020, 49, 74-84.	1.0	5
8	Management Options to Reduce Phosphorus Leaching from Vegetated Buffer Strips. <i>Journal of Environmental Quality</i> , 2019, 48, 322-329.	1.0	16
9	An Assessment of the Multifunctionality of Integrated Buffer Zones in Northwestern Europe. <i>Journal of Environmental Quality</i> , 2019, 48, 362-375.	1.0	29
10	Current Insights into the Effectiveness of Riparian Management, Attainment of Multiple Benefits, and Potential Technical Enhancements. <i>Journal of Environmental Quality</i> , 2019, 48, 236-247.	1.0	44
11	Modeling the Ecological Impact of Phosphorus in Catchments with Multiple Environmental Stressors. <i>Journal of Environmental Quality</i> , 2019, 48, 1336-1346.	1.0	12
12	Is Green Manure from Riparian Buffer Strip Species an Effective Nutrient Source for Crops?. <i>Journal of Environmental Quality</i> , 2019, 48, 385-393.	1.0	4
13	Phosphorus acquisition by citrateâ€and phytaseâ€exuding <i>Nicotiana tabacum</i> plant mixtures depends on soil phosphorus availability and root intermingling. <i>Physiologia Plantarum</i> , 2018, 163, 356-371.	2.6	35
14	Opportunities for mobilizing recalcitrant phosphorus from agricultural soils: a review. <i>Plant and Soil</i> , 2018, 427, 5-16.	1.8	191
15	Does the combination of citrate and phytase exudation in <i>Nicotiana tabacum</i> promote the acquisition of endogenous soil organic phosphorus?. <i>Plant and Soil</i> , 2017, 412, 43-59.	1.8	25
16	A tool for cost-effectiveness analysis of field scale sediment-bound phosphorus mitigation measures and application to analysis of spatial and temporal targeting in the Lunan Water catchment, Scotland. <i>Science of the Total Environment</i> , 2017, 586, 631-641.	3.9	21
17	Linking the depletion of rhizosphere phosphorus to the heterologous expression of a fungal phytase in <i>Nicotiana tabacum</i> as revealed by enzyme-labile P and solution <sup>31</sup> P NMR spectroscopy. <i>Rhizosphere</i> , 2017, 3, 82-91.	1.4	12
18	Changes in aquatic microbial responses to C-substrates with stream water and sediment quality related to land use pressures. <i>Chemosphere</i> , 2017, 184, 548-558.	4.2	21

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19	Organic Acids Regulation of Chemicalâ€™Microbial Phosphorus Transformations in Soils. Environmental Science & Technology, 2016, 50, 11521-11531.	4.6	102
20	Septic tank discharges as multi-pollutant hotspots in catchments. Science of the Total Environment, 2016, 542, 854-863.	3.9	64
21	The composition, leaching, and sorption behavior of some alternative sources of phosphorus for soils. Ambio, 2015, 44, 207-216.	2.8	35
22	Land use and soil factors affecting accumulation of phosphorus species in temperate soils. Geoderma, 2015, 257-258, 29-39.	2.3	133
23	Microbial biomass phosphorus contributions to phosphorus solubility in riparian vegetated buffer strip soils. Biology and Fertility of Soils, 2013, 49, 1237-1241.	2.3	15
24	Riparian Buffer Strips as a Multifunctional Management Tool in Agricultural Landscapes: Introduction. Journal of Environmental Quality, 2012, 41, 297-303.	1.0	166
25	Recovering Phosphorus from Soil: A Root Solution?. Environmental Science & Technology, 2012, 46, 1977-1978.	4.6	116
26	Phosphorus Retention and Remobilization in Vegetated Buffer Strips: A Review. Journal of Environmental Quality, 2012, 41, 389-399.	1.0	120
27	Dissolved organic carbon dynamics in a UK podzolic moorland catchment: linking storm hydrochemistry, flow path analysis and sorption experiments. Biogeosciences, 2012, 9, 2159-2175.	1.3	24
28	Relationships between Soil Physicochemical, Microbiological Properties, and Nutrient Release in Buffer Soils Compared to Field Soils. Journal of Environmental Quality, 2012, 41, 400-409.	1.0	38
29	Integrating Economic and Biophysical Data in Assessing Cost-Effectiveness of Buffer Strip Placement. Journal of Environmental Quality, 2012, 41, 380-388.	1.0	23
30	Three representative UK moorland soils show differences in decadal release of dissolved organic carbon in response to environmental change. Biogeosciences, 2011, 8, 3661-3675.	1.3	17
31	Reply to comment on: â€™Multi-element signatures of stream sediments and sources under moderate to low flow conditionsâ€™ by Barry Rawlins. Applied Geochemistry, 2010, 25, 1617-1619.	1.4	1
32	Multi-element signatures of stream sediments and sources under moderate to low flow conditions. Applied Geochemistry, 2009, 24, 800-809.	1.4	34
33	Vegetated Buffer Strips Can Lead to Increased Release of Phosphorus to Waters: A Biogeochemical Assessment of the Mechanisms. Environmental Science & Technology, 2009, 43, 1858-1863.	4.6	103
34	Spatial Variability in Properties Affecting Organic Horizon Carbon Storage in Upland Soils. Soil Science Society of America Journal, 2009, 73, 1724-1732.	1.2	16
35	Interactions of land use and dynamic river conditions on sorption equilibria between benthic sediments and river soluble reactive phosphorus concentrations. Water Research, 2008, 42, 4249-4260.	5.3	40
36	Physico-chemical and biological controls on dissolved organic matter in peat aggregate columns. European Journal of Soil Science, 2007, 58, 646-657.	1.8	22

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37	Temperature and soil moisture effects on dissolved organic matter release from a moorland Podzol O horizon under field and controlled laboratory conditions. <i>European Journal of Soil Science</i> , 2007, 58, 1007-1016.	1.8	28
38	Model Assessment of Biogeochemical Controls on Dissolved Organic Carbon Partitioning in an Acid Organic Soil. <i>Environmental Science &amp; Technology</i> , 2005, 39, 8057-8063.	4.6	64
39	A mass balance based numerical method for the fractional advection-dispersion equation: Theory and application. <i>Water Resources Research</i> , 2005, 41, .	1.7	74
40	Weathering and atmospheric deposition signatures of base cations in upland soils of NE Scotland: their application to critical load assessment. <i>Geoderma</i> , 2003, 116, 301-324.	2.3	13
41	Calibration of the sodium base cation dominance index of weathering for the River Dee catchment in north-east Scotland. <i>Applied Geochemistry</i> , 2002, 17, 11-19.	1.4	16
42	Catchment characteristics controlling the mobilization and potential toxicity of aluminium fractions in the catchment of the River Dee, northeast Scotland. <i>Science of the Total Environment</i> , 2001, 281, 121-139.	3.9	15
43	Soil phosphorus over a period of agricultural change in Scotland. <i>European Journal of Soil Science</i> , 0, , .	1.8	1