Marc I Stutter

List of Publications by Year
in descending order

43 papers	1,786 citations	331642 21 h-index	276858 41 g-index
43 all docs	43 docs citations	43 times ranked	2206 citing authors

#	Article	IF	Citations
1	Keeping Up with Phosphorus Dynamics: Overdue Conceptual Changes in Vegetative Filter Strip Research and Management. Frontiers in Environmental Science, 2022, 10, .	3.3	6
2	Can Prediction and Understanding of Water Quality Variation Be Improved by Combining Phosphorus Source and Waterbody Condition Parameters?. Frontiers in Water, 2022, 4, .	2.3	2
3	The utility of spatial data to delineate river riparian functions and management zones: A review. Science of the Total Environment, 2021, 757, 143982.	8.0	38
4	A Framework for Assessing Concentrationâ€Discharge Catchment Behavior From Lowâ€Frequency Water Quality Data. Water Resources Research, 2021, 57, e2021WR029692.	4.2	19
5	Phosphorus solubility changes following additions of bioenergy wastes to an agricultural soil: Implications for crop availability and environmental mobility. Geoderma, 2021, 401, 115150.	5.1	10
6	The interactions of site-specific factors on riparian buffer effectiveness across multiple pollutants: A review. Science of the Total Environment, 2021, 798, 149238.	8.0	16
7	Phosphorus leaching from riparian soils with differing management histories under three grass species. Journal of Environmental Quality, 2020, 49, 74-84.	2.0	5
8	Management Options to Reduce Phosphorus Leaching from Vegetated Buffer Strips. Journal of Environmental Quality, 2019, 48, 322-329.	2.0	16
9	An Assessment of the Multifunctionality of Integrated Buffer Zones in Northwestern Europe. Journal of Environmental Quality, 2019, 48, 362-375.	2.0	29
10	Current Insights into the Effectiveness of Riparian Management, Attainment of Multiple Benefits, and Potential Technical Enhancements. Journal of Environmental Quality, 2019, 48, 236-247.	2.0	44
11	Modeling the Ecological Impact of Phosphorus in Catchments with Multiple Environmental Stressors. Journal of Environmental Quality, 2019, 48, 1336-1346.	2.0	12
12	Is Green Manure from Riparian Buffer Strip Species an Effective Nutrient Source for Crops?. Journal of Environmental Quality, 2019, 48, 385-393.	2.0	4
13	Phosphorus acquisition by citrateâ€•and phytaseâ€exuding <scp>Nicotiana tabacum</scp> plant mixtures depends on soil phosphorus availability and root intermingling. Physiologia Plantarum, 2018, 163, 356-371.	5.2	35
14	Opportunities for mobilizing recalcitrant phosphorus from agricultural soils: a review. Plant and Soil, 2018, 427, 5-16.	3.7	191
15	Does the combination of citrate and phytase exudation in Nicotiana tabacum promote the acquisition of endogenous soil organic phosphorus?. Plant and Soil, 2017, 412, 43-59.	3.7	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. Science of the Total Environment, 2017, 586, 631-641.	8.0	21
17	Linking the depletion of rhizosphere phosphorus to the heterologous expression of a fungal phytase in Nicotiana tabacum as revealed by enzyme-labile P and solution 31P NMR spectroscopy. Rhizosphere, 2017, 3, 82-91.	3.0	12
18	Changes in aquatic microbial responses to C-substrates with stream water and sediment quality related to land use pressures. Chemosphere, 2017, 184, 548-558.	8.2	21

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19	Organic Acids Regulation of Chemicalâ€“Microbial Phosphorus Transformations in Soils. Environmental Science & Technology, 2016, 50, 11521-11531.	10.0	102
20	Septic tank discharges as multi-pollutant hotspots in catchments. Science of the Total Environment, 2016, 542, 854-863.	8.0	64
21	The composition, leaching, and sorption behavior of some alternative sources of phosphorus for soils. Ambio, 2015, 44, 207-216.	5.5	35
22	Land use and soil factors affecting accumulation of phosphorus species in temperate soils. Geoderma, 2015, 257-258, 29-39.	5.1	133
23	Microbial biomass phosphorus contributions to phosphorus solubility in riparian vegetated buffer strip soils. Biology and Fertility of Soils, 2013, 49, 1237-1241.	4.3	15
24	Riparian Buffer Strips as a Multifunctional Management Tool in Agricultural Landscapes: Introduction. Journal of Environmental Quality, 2012, 41, 297-303.	2.0	166
25	Recovering Phosphorus from Soil: A Root Solution?. Environmental Science & Technology, 2012, 46, 1977-1978.	10.0	116
26	Phosphorus Retention and Remobilization in Vegetated Buffer Strips: A Review. Journal of Environmental Quality, 2012, 41, 389-399.	2.0	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.	3.3	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.	2.0	38
29	Integrating Economic and Biophysical Data in Assessing Cost-Effectiveness of Buffer Strip Placement. Journal of Environmental Quality, 2012, 41, 380-388.	2.0	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.	3.3	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.	3.0	1
32	Multi-element signatures of stream sediments and sources under moderate to low flow conditions. Applied Geochemistry, 2009, 24, 800-809.	3.0	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.	10.0	103
34	Spatial Variability in Properties Affecting Organic Horizon Carbon Storage in Upland Soils. Soil Science Society of America Journal, 2009, 73, 1724-1732.	2.2	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.	11.3	40
36	Physico-chemical and biological controls on dissolved organic matter in peat aggregate columns. European Journal of Soil Science, 2007, 58, 646-657.	3.9	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. European Journal of Soil Science, 2007, 58, 1007-1016.	3.9	28
38	Model Assessment of Biogeochemical Controls on Dissolved Organic Carbon Partitioning in an Acid Organic Soil. Environmental Science & Technology, 2005, 39, 8057-8063.	10.0	64
39	A mass balance based numerical method for the fractional advection-dispersion equation: Theory and application. Water Resources Research, 2005, 41, .	4.2	74
40	Weathering and atmospheric deposition signatures of base cations in upland soils of NE Scotland: their application to critical load assessment. Geoderma, 2003, 116, 301-324.	5.1	13
41	Calibration of the sodium base cation dominance index of weathering for the River Dee catchment in north-east Scotland. Applied Geochemistry, 2002, 17, 11-19.	3.0	16
42	Catchment characteristics controlling the mobilization and potential toxicity of aluminium fractions in the catchment of the River Dee, northeast Scotland. Science of the Total Environment, 2001, 281, 121-139.	8.0	15
43	Soil phosphorus over a period of agricultural change in Scotland. European Journal of Soil Science, 0, , .	3.9	1