Martin S A Blackwell

List of Publications by Year
in descending order

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59 papers	2,556 citations	186209 28 h-index	206029 48 g-index
64 all docs	64 docs citations	64 times ranked	3187 citing authors

#	Article	IF	Citations
1	Opportunities for mobilizing recalcitrant phosphorus from agricultural soils: a review. Plant and Soil, 2018, 427, 5-16.	1.8	191
2	Organic phosphorus in the terrestrial environment: a perspective on the state of the art and future priorities. Plant and Soil, 2018, 427, 191-208.	1.8	145
3	Sediment source fingerprinting: benchmarking recent outputs, remaining challenges and emerging themes. Journal of Soils and Sediments, 2020, 20, 4160-4193.	1.5	124
4	Recovering Phosphorus from Soil: A Root Solution?. Environmental Science & Technology, 2012, 46, 1977-1978.	4.6	116
5	Phosphorus Solubilization and Potential Transfer to Surface Waters from the Soil Microbial Biomass Following Dryingâ€“Rewetting and Freezingâ€“Thawing. Advances in Agronomy, 2010, 106, 1-35.	2.4	115
6	The importance of soil drying and re-wetting in crop phytohormonal and nutritional responses to deficit irrigation. Journal of Experimental Botany, 2015, 66, 2239-2252.	2.4	103
7	Organic Acids Regulation of Chemicalâ€“Microbial Phosphorus Transformations in Soils. Environmental Science & Technology, 2016, 50, 11521-11531.	4.6	102
8	Advances in the understanding of nutrient dynamics and management in UK agriculture. Science of the Total Environment, 2012, 434, 39-50.	3.9	101
9	Combined Applications of Nitrogen and Phosphorus Fertilizers with Manure Increase Maize Yield and Nutrient Uptake via Stimulating Root Growth in a Long-Term Experiment. Pedosphere, 2016, 26, 62-73.	2.1	93
10	Isolating the influence of <scp>pH</scp> on the amounts and forms of soil organic phosphorus. European Journal of Soil Science, 2013, 64, 249-259.	1.8	81
11	The <scp>N</scp>orth <scp>W</scp>yke <scp>F</scp>arm <scp>P</scp>latform: effect of temperate grassland farming systems on soil moisture contents, runoff and associated water quality dynamics. European Journal of Soil Science, 2016, 67, 374-385.	1.8	81
12	A Meta-Analysis of Organic and Inorganic Phosphorus in Organic Fertilizers, Soils, and Water: Implications for Water Quality. Critical Reviews in Environmental Science and Technology, 2014, 44, 2172-2202.	6.6	79
13	Effects of soil drying and rate of re-wetting on concentrations and forms of phosphorus in leachate. Biology and Fertility of Soils, 2009, 45, 635-643.	2.3	73
14	Ecosystem services delivered by small-scale wetlands. Hydrological Sciences Journal, 2011, 56, 1467-1484.	1.2	71
15	A Holistic Approach to Understanding the Desorption of Phosphorus in Soils. Environmental Science & Technology, 2016, 50, 3371-3381.	4.6	71
16	Interactions Among Agricultural Production and Other Ecosystem Services Delivered from European Temperate Grassland Systems. Advances in Agronomy, 2010, 109, 117-154.	2.4	62
17	The oxygen isotopic composition of phosphate in river water and its potential sources in the Upper River Taw catchment, UK. Science of the Total Environment, 2017, 574, 680-690.	3.9	50
18	Assessment of bioavailable organic phosphorus in tropical forest soils by organic acid extraction and phosphatase hydrolysis. Geoderma, 2016, 284, 93-102.	2.3	47

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19	Inter- and intra-species intercropping of barley cultivars and legume species, as affected by soil phosphorus availability. Plant and Soil, 2018, 427, 125-138.	1.8	46
20	Contemporary fineâ€grained bed sediment sources across the River Wensum Demonstration Test Catchment, UK. Hydrological Processes, 2013, 27, 857-884.	1.1	43
21	Response-based selection of barley cultivars and legume species for complementarity: Root morphology and exudation in relation to nutrient source. Plant Science, 2017, 255, 12-28.	1.7	41
22	Root development impacts on the distribution of phosphatase activity: Improvements in quantification using soil zymography. Soil Biology and Biochemistry, 2018, 116, 158-166.	4.2	40
23	Phosphorus use efficiency and fertilizers: future opportunities for improvements. Frontiers of Agricultural Science and Engineering, 2019, 6, 332.	0.9	40
24	Variations in concentrations of N and P forms in leachates from dried soils rewetted at different rates. Biology and Fertility of Soils, 2013, 49, 79-87.	2.3	39
25	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.	2.6	35
26	Nitrous oxide production and denitrification rates in estuarine intertidal saltmarsh and managed realignment zones. Estuarine, Coastal and Shelf Science, 2010, 87, 591-600.	0.9	34
27	Phylogenetic distribution, biogeography and the effects of land management upon bacterial non-specific Acid phosphatase Gene diversity and abundance. Plant and Soil, 2018, 427, 175-189.	1.8	34
28	Temperature response of denitrification rate and greenhouse gas production in agricultural river marginal wetland soils. Geobiology, 2013, 11, 252-267.	1.1	32
29	Phosphate stable oxygen isotope variability within a temperate agricultural soil. Geoderma, 2017, 285, 64-75.	2.3	29
30	Nitrous oxide emissions from small-scale farmland features of UK livestock farming systems. Agriculture, Ecosystems and Environment, 2010, 136, 192-198.	2.5	28
31	Influence of flooding onΔ15N,Δ18O,1Δ15N and2Δ15N signatures of N2O released from estuarine soilsâ€”a laboratory experiment using tidal flooding chambers. Rapid Communications in Mass Spectrometry, 2004, 18, 1561-1568.	0.7	27
32	Soil microbial biomass phosphorus can serve as an index to reflect soil phosphorus fertility. Biology and Fertility of Soils, 2021, 57, 657-669.	2.3	27
33	Morphological responses of wheat (Triticum aestivumL.) roots to phosphorus supply in two contrasting soils. Journal of Agricultural Science, 2016, 154, 98-108.	0.6	25
34	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.	1.8	25
35	Simultaneous Quantification of Soil Phosphorus Labile Pool and Desorption Kinetics Using DGTs and 3D-DIFS. Environmental Science & Technology, 2019, 53, 6718-6728.	4.6	23
36	Using a meta-analysis approach to understand complexity in soil biodiversity and phosphorus acquisition in plants. Soil Biology and Biochemistry, 2020, 142, 107695.	4.2	22

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37	Fertilizer produced from abattoir waste can contribute to phosphorus sustainability, and biofortify crops with minerals. PLoS ONE, 2019, 14, e0221647.	1.1	19
38	Microbial Biomass Responses to Soil Drying-Rewetting and Phosphorus Leaching. Frontiers in Environmental Science, 2019, 7, .	1.5	18
39	Responses of carbon, nitrogen and phosphorus to two consecutive dryingâ€“rewetting cycles in soils. Journal of Plant Nutrition and Soil Science, 2019, 182, 217-228.	1.1	18
40	Elucidating three-way interactions between soil, pasture and animals that regulate nitrous oxide emissions from temperate grazing systems. Agriculture, Ecosystems and Environment, 2020, 300, 106978.	2.5	18
41	Dissolved Phosphorus Retention in Buffer Strips: Influence of Slope and Soil Type. Journal of Environmental Quality, 2015, 44, 1216-1224.	1.0	16
42	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
43	Short-term biotic removal of dissolved organic nitrogen (DON) compounds from soil solution and subsequent mineralisation in contrasting grassland soils. Soil Biology and Biochemistry, 2016, 96, 82-85.	4.2	14
44	Cycling of reduced phosphorus compounds in soil and potential impacts of climate change. European Journal of Soil Science, 2021, 72, 2517-2537.	1.8	13
45	Effects of drying and simulated flooding on soil phosphorus dynamics from two contrasting <scp>UK</scp> grassland soils. European Journal of Soil Science, 2022, 73, .	1.8	13
46	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.	1.4	12
47	The Mineral Composition of Wild-Type and Cultivated Varieties of Pasture Species. Agronomy, 2020, 10, 1463.	1.3	12
48	Investigation of the soil properties that affect Olsen P critical values in different soil types and impact on P fertiliser recommendations. European Journal of Soil Science, 2021, 72, 1802-1816.	1.8	12
49	Fertilization and Catch Crop Strategies for Improving Tomato Production in North China. Pedosphere, 2015, 25, 364-371.	2.1	11
50	Simulation of Phosphorus Chemistry, Uptake and Utilisation by Winter Wheat. Plants, 2019, 8, 404.	1.6	11
51	A review of phosphate oxygen isotope values in global bedrocks: Characterising a critical endmember to the soil phosphorus system. Journal of Plant Nutrition and Soil Science, 2021, 184, 25-34.	1.1	10
52	The stable oxygen isotope ratio of resin extractable phosphate derived from fresh cattle faeces. Rapid Communications in Mass Spectrometry, 2018, 32, 703-710.	0.7	6
53	A rapid ammonium fluoride method to determine the oxygen isotope ratio of available phosphorus in tropical soils. Rapid Communications in Mass Spectrometry, 2020, 34, e8647.	0.7	6
54	Changes of oxygen isotope values of soil P pools associated with changes in soil pH. Scientific Reports, 2020, 10, 2065.	1.6	6

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55	Impact of microbial activity on the leaching of soluble N forms in soil. Biology and Fertility of Soils, 2018, 54, 21-25.	2.3	5
56	Soil methane (CH₄) fluxes in cropland with permanent pasture and riparian buffer strips with different vegetation[#]. Journal of Plant Nutrition and Soil Science, 2022, 185, 132-144.	1.1	5
57	The effect of soil organic matter on long-term availability of phosphorus in soil: Evaluation in a biological P mining experiment. Geoderma, 2022, 423, 115965.	2.3	4
58	Significance of Rootâ€Attached Soil and Soil Preparation for Microbial Biomass Phosphorus Measurement. Soil Science Society of America Journal, 2009, 73, 1861-1863.	1.2	3
59	Riparian buffer strips influence nitrogen losses as nitrous oxide and leached N from upslope permanent pasture. Agriculture, Ecosystems and Environment, 2022, 336, 108031.	2.5	3