

Andrew J Macdonald

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3250339/publications.pdf>

Version: 2024-02-01

23
papers

1,169
citations

623734

14
h-index

752698

20
g-index

23
all docs

23
docs citations

23
times ranked

1680
citing authors

#	ARTICLE	IF	CITATIONS
1	Major limitations to achieving 4 per 1000 increases in soil organic carbon stock in temperate regions: Evidence from long-term experiments at Rothamsted Research, United Kingdom. <i>Global Change Biology</i> , 2018, 24, 2563-2584.	9.5	238
2	Unused fertiliser nitrogen in arable soils—its contribution to nitrate leaching. <i>Journal of the Science of Food and Agriculture</i> , 1989, 46, 407-419.	3.5	160
3	Genome size and ploidy influence angiosperm species' biomass under nitrogen and phosphorus limitation. <i>New Phytologist</i> , 2016, 210, 1195-1206.	7.3	117
4	The energetic and chemical signatures of persistent soil organic matter. <i>Biogeochemistry</i> , 2016, 130, 1-12.	3.5	108
5	Farmyard manure applications stimulate soil carbon and nitrogen cycling by boosting microbial biomass rather than changing its community composition. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107760.	8.8	102
6	Advances in the understanding of nutrient dynamics and management in UK agriculture. <i>Science of the Total Environment</i> , 2012, 434, 39-50.	8.0	101
7	UAS-based soil carbon mapping using VIS-NIR (480–1000 nm) multi-spectral imaging: Potential and limitations. <i>Geoderma</i> , 2016, 275, 55-66.	5.1	65
8	Microbial and plant-derived compounds both contribute to persistent soil organic carbon in temperate soils. <i>Biogeochemistry</i> , 2018, 140, 81-92.	3.5	50
9	Assessing the Performance of UAS-Compatible Multispectral and Hyperspectral Sensors for Soil Organic Carbon Prediction. <i>Sustainability</i> , 2019, 11, 1889.	3.2	32
10	A model based on Rock-Eval thermal analysis to quantify the size of the centennially persistent organic carbon pool in temperate soils. <i>Biogeosciences</i> , 2018, 15, 2835-2849.	3.3	30
11	Substrate control of sulphur utilisation and microbial stoichiometry in soil: Results of ¹³ C, ¹⁵ N, ¹⁴ C, and ³⁵ S quad labelling. <i>ISME Journal</i> , 2021, 15, 3148-3158.	9.8	29
12	Molecular Weight of Dissolved Organic Carbon, Nitrogen, and Phenolics in Grassland Soils. <i>Soil Science Society of America Journal</i> , 2012, 76, 142-150.	2.2	28
13	Nutrient supply enhanced the increase in intrinsic water-use efficiency of a temperate seminatural grassland in the last century. <i>Global Change Biology</i> , 2012, 18, 3367-3376.	9.5	27
14	Stomatal conductance limited the CO ₂ response of grassland in the last century. <i>BMC Biology</i> , 2021, 19, 50.	3.8	24
15	The Application of Magnesium Die Casting to Vehicle Closures. , 0, , .		15
16	Triaxial Testing to Determine the Effect of Soil Type and Organic Carbon Content on Soil Consolidation and Shear Deformation Characteristics. <i>Soil Science Society of America Journal</i> , 2014, 78, 1192-1200.	2.2	11
17	Impact of Land Use on Soluble Organic Nitrogen in Soil. <i>Water, Air and Soil Pollution</i> , 2004, 4, 53-60.	0.8	10
18	Effects of take-all (<i>Gaeumannomyces graminis</i> var. <i>tritici</i>) on crop N uptake and residual mineral N in soil at harvest of winter wheat. <i>Plant and Soil</i> , 2012, 350, 253-260.	3.7	7

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19	Changes of oxygen isotope values of soil P pools associated with changes in soil pH. Scientific Reports, 2020, 10, 2065.	3.3	6
20	Effects of Fertilizers and Manures on Temporal Yield Variability of Winter Rye. Agronomy, 2021, 11, 519.	3.0	6
21	Impact of land use on soluble organic nitrogen in soil. Water, Air and Soil Pollution, 2005, 4, 53-60.	0.8	2
22	Food Security Through Better Soil Carbon Management. , 2013, , 63-78.		1
23	Experimental Study of EV-DO Performance in Telematics Applications. , 0, , .		0