Ann Mcneill

List of Publications by Year
in descending order

23 papers	925 citations	687363 13 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	1294 citing authors

#	Article	IF	Citations
1	The X-factor: visualizing undisturbed root architecture in soils using X-ray computed tomography. Journal of Experimental Botany, 2010, 61, 311-313.	4.8	172
2	Prediction of wheat response to an application of phosphorus under field conditions using diffusive gradients in thin-films (DGT) and extraction methods. Plant and Soil, 2010, 337, 243-258.	3.7	138
3	Non-destructive quantification of cereal roots in soil using high-resolution X-ray tomography. Journal of Experimental Botany, 2012, 63, 2503-2511.	4.8	121
4	Changes in soil P pools during legume residue decomposition. Soil Biology and Biochemistry, 2012, 49, 70-77.	8.8	81
5	Quantifying the effect of soil compaction on three varieties of wheat (Triticum aestivum L.) using X-ray Micro Computed Tomography (CT). Plant and Soil, 2012, 353, 195-208.	3.7	71
6	The mechanism of boron tolerance for maintenance of root growth in barley (Hordeum vulgare L.). Plant, Cell and Environment, 2007, 30, 984-993.	5.7	58
7	Growth, P uptake in grain legumes and changes in rhizosphere soil P pools. Biology and Fertility of Soils, 2012, 48, 151-159.	4.3	51
8	Soil test measures of available P (Colwell, resin and DGT) compared with plant P uptake using isotope dilution. Plant and Soil, 2013, 373, 711-722.	3.7	48
9	Whole plant response of crop and weed species to high subsoil boron. Australian Journal of Agricultural Research, 2006, 57, 761.	1.5	27
10	Symbiotic N2 fixation and nitrate utilisation in irrigated lucerne (Medicago sativa) systems. Biology and Fertility of Soils, 2011, 47, 377-385.	4.3	23
11	Grain legume pre-crops and their residues affect the growth, P uptake and size of P pools in the rhizosphere of the following wheat. Biology and Fertility of Soils, 2012, 48, 775-785.	4.3	22
12	Legume residue influence arbuscular mycorrhizal colonisation and P uptake by wheat. Biology and Fertility of Soils, 2011, 47, 701-707.	4.3	20
13	Optimization of the diffusive gradients in thin films (DGT) method for simultaneous assay of potassium and plant-available phosphorus in soils. Talanta, 2013, 113, 123-129.	5.5	19
14	Distribution and Speciation of Nutrient Elements around Micropores. Soil Science Society of America Journal, 2009, 73, 1319-1326.	2.2	11
15	Application of the diffusive gradients in thin films technique for available potassium measurement in agricultural soils: Effects of competing cations on potassium uptake by the resin gel. Analytica Chimica Acta, 2014, 842, 27-34.	5.4	10
16	Phosphorus uptake benefit for wheat following legume break crops in semi-arid Australian farming systems. Nutrient Cycling in Agroecosystems, 2019, 113, 247-266.	2.2	10
17	Comparison of soil analytical methods for estimating wheat potassium fertilizer requirements in response to contrasting plant K demand in the glasshouse. Scientific Reports, 2017, 7, 11391.	3.3	9
18	In situ 33P-labelling of canola and lupin to estimate total phosphorus accumulation in the root system. Plant and Soil, 2014, 382, 291-299.	3.7	8

#	Article	IF	Citations
19	Stable Isotope Techniques using Enriched 15N and 13C for Studies of Soil Organic Matter Accumulation and Decomposition in Agricultural Systems. Current Plant Science and Biotechnology in Agriculture, 2001, , 195-218.	0.0	8
20	Characterising the chemistry of micropores in a sodic soil with strong texture-contrast using synchrotron X-ray techniques and LA-ICP-MS. Soil Research, 2012, 50, 424.	1.1	5
21	Dual-labelling (15N and 33P) provides insights into stoichiometry and release of nitrogen and phosphorus from in situ mature lupin and canola below-ground residues. Plant and Soil, 2018, 426, 77-93.	3.7	5
22	Use of 33P to trace in situ the fate of canola below-ground phosphorus, including wheat uptake in two contrasting soils. Crop and Pasture Science, 2016, 67, 726.	1.5	4
23	Quantifying total phosphorus accumulation below-ground by canola and lupin plants using 33P-labelling. Plant and Soil, 2016, 401, 39-50.	3.7	4