Delphine Moreau

List of Publications by Year
in descending order

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42 papers	1,813 citations	394286 19 h-index	289141 40 g-index
43 all docs	43 docs citations	43 times ranked	2240 citing authors

#	Article	IF	Citations
1	A plant perspective on nitrogen cycling in the rhizosphere. Functional Ecology, 2019, 33, 540-552.	1.7	292
2	Nitrogen partitioning and remobilization in relation to leaf senescence, grain yield and grain nitrogen concentration in wheat cultivars. Field Crops Research, 2014, 155, 213-223.	2.3	244
3	Identification of traits to improve the nitrogen-use efficiency of wheat genotypes. Field Crops Research, 2011, 123, 139-152.	2.3	243
4	Plant traits related to nitrogen uptake influence plantâ€microbe competition. Ecology, 2015, 96, 2300-2310.	1.5	114
5	Response and effect traits of arable weeds in agroâ€ecosystems: a review of current knowledge. Weed Research, 2017, 57, 123-147.	0.8	95
6	Calibration and evaluation of ArchiSimple, a simple model of root system architecture. Ecological Modelling, 2014, 290, 76-84.	1.2	81
7	RhizoTubes as a new tool for high throughput imaging of plant root development and architecture: test, comparison with pot grown plants and validation. Plant Methods, 2016, 12, 31.	1.9	76
8	Role of ley pastures in tomorrowâ€™s cropping systems. A review. Agronomy for Sustainable Development, 2020, 40, 1.	2.2	63
9	The model symbiotic association between Medicago truncatula cv. Jemalong and Rhizobium meliloti strain 2011 leads to N-stressed plants when symbiotic N2 fixation is the main N source for plant growth. Journal of Experimental Botany, 2008, 59, 3509-3522.	2.4	60
10	Acclimation of Leaf Nitrogen to Vertical Light Gradient at Anthesis in Wheat Is a Whole-Plant Process That Scales with the Size of the Canopy Â Â. Plant Physiology, 2012, 160, 1479-1490.	2.3	54
11	A plant nitrophily index based on plant leaf area response to soil nitrogen availability. Agronomy for Sustainable Development, 2013, 33, 809-815.	2.2	37
12	The FLORSYS crop-weed canopy model, a tool to investigate and promote agroecological weed management. Field Crops Research, 2021, 261, 108006.	2.3	34
13	Trait-based characterisation of cover plantsâ€™ light competition strategies for weed control in banana cropping systems in the French West Indies. European Journal of Agronomy, 2015, 71, 10-18.	1.9	33
14	The response of weed and crop species to shading: Which parameters explain weed impacts on crop production?. Field Crops Research, 2019, 238, 45-55.	2.3	33
15	What are the traits of Phelipanche ramosa (L.) Pomel that contribute to the success of its biological cycle on its host Brassica napus L.?. Flora: Morphology, Distribution, Functional Ecology of Plants, 2012, 207, 512-521.	0.6	31
16	The ecophysiological determinants of nitrophily in annual weed species. Weed Research, 2014, 54, 335-346.	0.8	29
17	Positive effects of plant association on rhizosphere microbial communities depend on plant species involved and soil nitrogen level. Soil Biology and Biochemistry, 2017, 114, 1-4.	4.2	28
18	Using a standard framework for the phenotypic analysis of Medicago truncatula: an effective method for characterizing the plant material used for functional genomics approaches. Plant, Cell and Environment, 2006, 29, 1087-1098.	2.8	25

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19	Using a physiological framework for improving the detection of quantitative trait loci related to nitrogen nutrition in Medicago truncatula. Theoretical and Applied Genetics, 2012, 124, 755-768.	1.8	20
20	Plant nitrogen nutrition status in intercropsâ€“ a review of concepts and methods. European Journal of Agronomy, 2021, 124, 126229.	1.9	19
21	A model-based framework for the phenotypic characterization of the flowering of Medicago truncatula. Plant, Cell and Environment, 2007, 30, 213-224.	2.8	18
22	Deciphering field-based evidences for crop allelopathy in weed regulation. A review. Agronomy for Sustainable Development, 2022, 42, .	2.2	16
23	Effects of species and soilâ€nitrogen availability on root system architecture traits â€“ study on a set of weed and crop species. Annals of Applied Biology, 2017, 171, 103-116.	1.3	15
24	In which cropping systems can residual weeds reduce nitrate leaching and soil erosion?. European Journal of Agronomy, 2020, 119, 126015.	1.9	14
25	Trait-based characterisation of soil exploitation strategies of banana, weeds and cover plant species. PLoS ONE, 2017, 12, e0173066.	1.1	13
26	Analysis and modeling of the integrative response of Medicago truncatula to nitrogen constraints. Comptes Rendus - Biologies, 2009, 332, 1022-1033.	0.1	12
27	Assessing broomrape risk due to weeds in cropping systems with an indicator linked to a simulation model. Ecological Indicators, 2017, 82, 280-292.	2.6	11
28	Metamodelling a 3D architectural root-system model to provide a simple model based on key processes and species functional groups. Plant and Soil, 2020, 448, 231-251.	1.8	11
29	Quantifying the nitrogen demand of individual plants in heterogeneous canopies: A case study with crop and weed species. European Journal of Agronomy, 2020, 119, 126102.	1.9	10
30	Can differences of nitrogen nutrition level amongMedicago truncatulagenotypes be assessed non-destructively? Probing with a recombinant inbred lines population. Plant Signaling and Behavior, 2009, 4, 30-32.	1.2	9
31	ArchiSimple: A parsimonious model of the root system architecture. , 2012, , .		9
32	The response of weed and crop species to shading. How to predict their morphology and plasticity from species traits and ecological indexes?. European Journal of Agronomy, 2020, 121, 126158.	1.9	9
33	Individual-based 3D modelling of root systems in heterogeneous plant canopies at the multiannual scale. Case study with a weed dynamics model. Ecological Modelling, 2021, 440, 109376.	1.2	9
34	Integrating plant-plant competition for nitrogen into a 3D individual-based model simulating the effects of cropping systems on weed dynamics. Field Crops Research, 2021, 268, 108166.	2.3	8
35	Weed suppression in cover crop mixtures under contrasted levels of resource availability. European Journal of Agronomy, 2022, 136, 126499.	1.9	7
36	Trophic Relationships between the Parasitic Plant Species Phelipanche ramosa (L.) and Different Hosts Depending on Host Phenological Stage and Host Growth Rate. Frontiers in Plant Science, 2016, 7, 1033.	1.7	6

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37	Morphological response of weed and crop species to nitrogen stress in interaction with shading. Weed Research, 2022, 62, 160-171.	0.8	5
38	Designing a model to investigate cropping systems aiming to control both parasitic plants and weeds. European Journal of Agronomy, 2021, 129, 126318.	1.9	3
39	How to pit weeds against parasitic plants. A simulation study with Phelipanche ramosa in arable cropping systems. European Journal of Agronomy, 2021, 130, 126368.	1.9	2
40	How to hierarchize the main physiological processes responsible for phenotypic differences in large-scale screening studies?. Plant Signaling and Behavior, 2012, 7, 311-313.	1.2	1
41	Tracking Ideal Varieties and Cropping Techniques for Agroecological Weed Management: A Simulation-Based Study on Pea. Frontiers in Plant Science, 2022, 13, 809056.	1.7	1
42	A dataset on above- and below-ground traits of 21 species found in banana cropping systems, cultivated individually. Data in Brief, 2020, 31, 105890.	0.5	0