

# FÃ©licien Meunier

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8371455/publications.pdf>

Version: 2024-02-01

27  
papers

803  
citations

623574

14  
h-index

610775

24  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1058  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant Water Uptake in Drying Soils. <i>Plant Physiology</i> , 2014, 164, 1619-1627.	2.3	122
2	Root System Markup Language: Toward a Unified Root Architecture Description Language. <i>Plant Physiology</i> , 2015, 167, 617-627.	2.3	105
3	Root type matters: measurement of water uptake by seminal, crown, and lateral roots in maize. <i>Journal of Experimental Botany</i> , 2018, 69, 1199-1206.	2.4	100
4	Impact of contrasted maize root traits at flowering on water stress tolerance – A simulation study. <i>Field Crops Research</i> , 2014, 165, 125-137.	2.3	79
5	Hydraulic conductivity of soil-grown lupine and maize unbranched roots and maize root-shoot junctions. <i>Journal of Plant Physiology</i> , 2018, 227, 31-44.	1.6	46
6	Estimation of the hydraulic conductivities of lupine roots by inverse modelling of high-resolution measurements of root water uptake. <i>Annals of Botany</i> , 2016, 118, 853-864.	1.4	42
7	A hybrid analytical-numerical method for solving water flow equations in root hydraulic architectures. <i>Applied Mathematical Modelling</i> , 2017, 52, 648-663.	2.2	36
8	Modeling the impact of liana infestation on the demography and carbon cycle of tropical forests. <i>Global Change Biology</i> , 2019, 25, 3767-3780.	4.2	33
9	Measuring and Modeling Hydraulic Lift of <i>Lolium multiflorum</i> Using Stable Water Isotopes. <i>Vadose Zone Journal</i> , 2018, 17, 1-15.	1.3	31
10	Unraveling the relative role of light and water competition between lianas and trees in tropical forests: A vegetation model analysis. <i>Journal of Ecology</i> , 2021, 109, 519-540.	1.9	24
11	Functional–structural root-system model validation using a soil MRI experiment. <i>Journal of Experimental Botany</i> , 2019, 70, 2797-2809.	2.4	22
12	Connecting the dots between computational tools to analyse soil–root water relations. <i>Journal of Experimental Botany</i> , 2019, 70, 2345-2357.	2.4	22
13	Century-long apparent decrease in intrinsic water-use efficiency with no evidence of progressive nutrient limitation in African tropical forests. <i>Global Change Biology</i> , 2020, 26, 4449-4461.	4.2	20
14	Call for Participation: Collaborative Benchmarking of Functional-Structural Root Architecture Models. The Case of Root Water Uptake. <i>Frontiers in Plant Science</i> , 2020, 11, 316.	1.7	18
15	Water movement through plant roots – exact solutions of the water flow equation in roots with linear or exponential piecewise hydraulic properties. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 6519-6540.	1.9	16
16	From hydraulic root architecture models to macroscopic representations of root hydraulics in soil water flow and land surface models. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 4835-4860.	1.9	14
17	Impact of Maize Roots on Soil–Root Electrical Conductivity: A Simulation Study. <i>Vadose Zone Journal</i> , 2019, 18, 190037.	1.3	13
18	Liana optical traits increase tropical forest albedo and reduce ecosystem productivity. <i>Global Change Biology</i> , 2022, 28, 227-244.	4.2	10

#	ARTICLE	IF	CITATIONS
19	MARSHAL, a novel tool for virtual phenotyping of maize root system hydraulic architectures. <i>In Silico Plants</i> , 2020, 2, .	0.8	8
20	A new model for optimizing the water acquisition of root hydraulic architectures over full crop cycles. , 2016, , .		7
21	Lianas and trees exhibit divergent intrinsic water-use efficiency along elevational gradients in South American and African tropical forests. <i>Global Ecology and Biogeography</i> , 2021, 30, 2259-2272.	2.7	7
22	Within-Site Variability of Liana Wood Anatomical Traits: A Case Study in Laussat, French Guiana. <i>Forests</i> , 2020, 11, 523.	0.9	6
23	Lianas Significantly Reduce Aboveground and Belowground Carbon Storage: A Virtual Removal Experiment. <i>Frontiers in Forests and Global Change</i> , 2021, 4, .	1.0	4
24	Using terrestrial laser scanning to constrain forest ecosystem structure and functions in the Ecosystem Demography model (ED2.2). <i>Geoscientific Model Development</i> , 2022, 15, 4783-4803.	1.3	2
25	Implications of 3D Forest Stand Reconstruction Methods for Radiative Transfer Modeling: A Case Study in the Temperate Deciduous Forest. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	2
26	Two Co-occurring Liana Species Strongly Differ in Their Hydraulic Traits in a Water-Limited Neotropical Forest. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	1.0	1
27	Investigating Soil-Root Interactions with the Numerical Model R-SWMS. <i>Methods in Molecular Biology</i> , 2022, 2395, 259-283.	0.4	0