

# Christophe Robin

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,925  
citations

185998

28  
h-index

168136

53  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3546  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term organic farming fosters below and aboveground biota: Implications for soil quality, biological control and productivity. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2297-2308.	4.2	457
2	Dynamic of the genetic structure of bacterial and fungal communities at different developmental stages of <i>Medicago truncatula</i> Gaertn. cv. Jemalong line J5. <i>New Phytologist</i> , 2006, 170, 165-175.	3.5	213
3	Divergent composition but similar function of soil food webs of individual plants: plant species and community effects. <i>Ecology</i> , 2010, 91, 3027-3036.	1.5	204
4	Black truffle-associated bacterial communities during the development and maturation of <i>Tuber melanosporum</i> ascocarps and putative functional roles. <i>Environmental Microbiology</i> , 2014, 16, 2831-2847.	1.8	133
5	Influence of maize mucilage on the diversity and activity of the denitrifying community. <i>Environmental Microbiology</i> , 2004, 6, 301-312.	1.8	108
6	Protozoa enhance foraging efficiency of arbuscular mycorrhizal fungi for mineral nitrogen from organic matter in soil to the benefit of host plants. <i>New Phytologist</i> , 2013, 199, 203-211.	3.5	100
7	Desorption kinetics of PAHs from aged industrial soils for availability assessment. <i>Science of the Total Environment</i> , 2014, 470-471, 639-645.	3.9	99
8	Is the C:N ratio a reliable indicator of C allocation to primary and defence-related metabolisms in tomato?. <i>Phytochemistry</i> , 2013, 88, 25-33.	1.4	94
9	Fine-scale spatial genetic structure of the black truffle ( <i>Tuber melanosporum</i> ) investigated with neutral microsatellites and functional mating type genes. <i>New Phytologist</i> , 2013, 199, 176-187.	3.5	83
10	Short and long-term effects of elevated CO <sub>2</sub> on <i>Lolium perenne</i> rhizodeposition and its consequences on soil organic matter turnover and plant N yield. <i>Soil Biology and Biochemistry</i> , 2006, 38, 1178-1187.	4.2	82
11	Carbon Transfer from the Host to <i>Tuber melanosporum</i> Mycorrhizas and Ascocarps Followed Using a <sup>13</sup> C Pulse-Labeling Technique. <i>PLoS ONE</i> , 2013, 8, e64626.	1.1	82
12	The "trade-off" between synthesis of primary and secondary compounds in young tomato leaves is altered by nitrate nutrition: experimental evidence and model consistency. <i>Journal of Experimental Botany</i> , 2009, 60, 4301-4314.	2.4	78
13	Temporal changes of bacterial communities in the <i>Tuber melanosporum</i> ectomycorrhizosphere during ascocarp development. <i>Mycorrhiza</i> , 2016, 26, 389-399.	1.3	75
14	Influence of repeated short-term nitrogen limitations on leaf phenolics metabolism in tomato. <i>Phytochemistry</i> , 2012, 77, 119-128.	1.4	64
15	Certainties and uncertainties about the life cycle of the Périgord black truffle ( <i>Tuber melanosporum</i> ) Tj ETQq1 1 0.784314 ggBT /Over 0.8 67	0.8	67
16	Effect of Light Quality (Red:Far-red Ratio) at the Apical Bud of the Main Stolon on Morphogenesis of <i>Trifolium repens</i> L.. <i>Annals of Botany</i> , 1994, 74, 119-123.	1.4	58
17	Protozoa stimulate N uptake and growth of arbuscular mycorrhizal plants. <i>Soil Biology and Biochemistry</i> , 2013, 65, 204-210.	4.2	57
18	How does nitrogen availability alter rhizodeposition in <i>Lolium multiflorum</i> Lam. during vegetative growth?. <i>Plant and Soil</i> , 2005, 269, 181-191.	1.8	52

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19	Defoliation-induced changes in carbon allocation and root soluble carbon concentration in field-grown <i>Lolium perenne</i> plants: do they affect carbon availability, microbes and animal trophic groups in soil?. <i>Functional Ecology</i> , 2005, 19, 886-896.	1.7	48
20	Interrelated responses of tomato plants and the leaf miner <i>Tuta absoluta</i> to nitrogen supply. <i>Plant Biology</i> , 2016, 18, 495-504.	1.8	47
21	Continuous monitoring of rhizosphere respiration after labelling of plant shoots with $^{14}\text{CO}_2$ . <i>Plant and Soil</i> , 1999, 212, 189-199.	1.8	46
22	Effect of light quality (red: far-red ratio) and defoliation treatments applied at a single phytomer on axillary bud outgrowth in <i>Trifolium repens</i> L.. <i>Oecologia</i> , 1994, 100, 236-242.	0.9	40
23	Nitrogen fixation and growth of <i>Lens culinaris</i> as affected by nickel availability: A pre-requisite for optimization of agromining. <i>Environmental and Experimental Botany</i> , 2016, 131, 1-9.	2.0	40
24	Phenolamides in plants: an update on their function, regulation, and origin of their biosynthetic enzymes. <i>Journal of Experimental Botany</i> , 2021, 72, 2334-2355.	2.4	40
25	Organ-specific responses of tomato growth and phenolic metabolism to nitrate limitation. <i>Plant Biology</i> , 2012, 14, 760-769.	1.8	39
26	Phenolamides: Plant specialized metabolites with a wide range of promising pharmacological and health-promoting interests. <i>Biomedicine and Pharmacotherapy</i> , 2020, 131, 110762.	2.5	34
27	Five years investigation of female and male genotypes in Périgord black truffle ( <i>Tuber</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T <i>Microbiology</i> , 2017, 19, 2604-2615.	1.8	33
28	Effects of elevated $\text{CO}_2$ concentration on rhizodeposition from <i>Lolium perenne</i> grown on soil exposed to 9 years of $\text{CO}_2$ enrichment. <i>Soil Biology and Biochemistry</i> , 2006, 38, 729-736.	4.2	30
29	Cold acclimation in white clover subjected to chilling and frost: Changes in water and carbohydrates status. <i>European Journal of Agronomy</i> , 1997, 6, 225-233.	1.9	29
30	$^{14}\text{C}$ -assimilate partitioning within white clover plant-soil system: effects of photoperiod/temperature treatments and defoliation. <i>European Journal of Agronomy</i> , 1999, 11, 13-21.	1.9	29
31	Litter quality as driving factor for plant nutrition via grazing of protozoa on soil microorganisms. <i>FEMS Microbiology Ecology</i> , 2013, 85, 241-250.	1.3	28
32	Study of nitrogen and carbon transfer from soil organic matter to <i>Tuber melanosporum</i> mycorrhizas and ascocarps using $^{15}\text{N}$ and $^{13}\text{C}$ soil labelling and whole-genome oligoarrays. <i>Plant and Soil</i> , 2015, 395, 351-373.	1.8	26
33	Overwintering and Growing Season Dynamics of <i>Trifolium repens</i> L. in Mixture with <i>Lolium perenne</i> L.: A Model Approach to Plant-environment Interactions. <i>Annals of Botany</i> , 2001, 88, 683-702.	1.4	25
34	Effect of potassium on the tolerance to PEG-induced water stress of two white clover varieties ( <i>Trifolium repens</i> L.). <i>Plant and Soil</i> , 1989, 120, 153-158.	1.8	23
35	Vegetative Storage Proteins in White Clover ( <i>Trifolium repens</i> L.): Quantitative and Qualitative Features. <i>Annals of Botany</i> , 2001, 88, 789-795.	1.4	22
36	Overwintering of <i>Trifolium repens</i> L. and Succeeding Growth: Results from a Common Protocol carried out at Twelve European Sites. <i>Annals of Botany</i> , 2001, 88, 669-682.	1.4	21

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37	Phytochrome Mediated Effects on Leaves of White Clover: Consequences for Light Interception by the Plant under Competition for Light. <i>Annals of Botany</i> , 2001, 88, 737-743.	1.4	21
38	Title is missing!. <i>Plant and Soil</i> , 2001, 228, 179-189.	1.8	21
39	Nitrogen nutrition of tomato plant alters leafminer dietary intake dynamics. <i>Journal of Insect Physiology</i> , 2017, 99, 130-138.	0.9	21
40	Branching responses of a plagiotropic clonal herb to localised incidence of light simulating that reflected from vegetation. <i>Oecologia</i> , 2001, 127, 185-190.	0.9	19
41	Modeling the diversion of primary carbon flux into secondary metabolism under variable nitrate and light/dark conditions. <i>Journal of Theoretical Biology</i> , 2016, 402, 144-157.	0.8	18
42	Impact of active transport and transpiration on nickel and cadmium accumulation in the leaves of the Ni-hyperaccumulator <i>Leptoplax emarginata</i> : a biophysical approach. <i>Plant and Soil</i> , 2012, 350, 99-115.	1.8	17
43	Net N immobilisation during the biodegradation of mucilage in soil as affected by repeated mineral and organic fertilisation. <i>Nutrient Cycling in Agroecosystems</i> , 2008, 80, 39-47.	1.1	15
44	Ecophysiology of nickel phytoaccumulation: a simplified biophysical approach. <i>Journal of Experimental Botany</i> , 2012, 63, 5815-5827.	2.4	12
45	Rôle de la position de la feuille dans l'assimilation et le transport du carbone chez le trèfle blanc ( <i>Trifolium repens</i> L.). <i>Agronomy for Sustainable Development</i> , 1987, 7, 599-605.	0.8	12
46	Water-soluble carbon in roots of rape and barley: impacts on labile soil organic carbon, arylsulphatase activity and sulphur mineralization. <i>Plant and Soil</i> , 2007, 294, 19-29.	1.8	10
47	Transcriptomics and Metabolomics Analyses Reveal High Induction of the Phenolamide Pathway in Tomato Plants Attacked by the Leafminer <i>Tuta absoluta</i> . <i>Metabolites</i> , 2022, 12, 484.	1.3	9
48	Growth and nitrogen fixation of annual <i>Medicago</i> - <i>Rhizobium</i> associations during winter in Mediterranean region. <i>European Journal of Agronomy</i> , 2001, 15, 221-229.	1.9	8
49	Nitrogen rhizodeposition assessed by a $^{15}\text{NH}_3$ shoot pulse-labelling of <i>Lolium perenne</i> L. grown on soil exposed to 9 years of $\text{CO}_2$ enrichment. <i>Environmental and Experimental Botany</i> , 2008, 63, 410-415.	2.0	8
50	Tomato response traits to pathogenic <i>Pseudomonas</i> species: Does nitrogen limitation matter?. <i>Plant Science</i> , 2016, 244, 57-67.	1.7	8
51	Nitrogen fixation and growth of annual <i>Medicago</i> - <i>Sinorhizobium</i> associations at low temperature. <i>European Journal of Agronomy</i> , 2005, 22, 267-275.	1.9	7
52	Multiscale and age-dependent leaf nickel in the Ni-hyperaccumulator <i>Leptoplax emarginata</i> . <i>Ecological Research</i> , 2018, 33, 723-736.	0.7	6
53	<i>Datura innoxia</i> plants hydroponically-inoculated with <i>Agrobacterium rhizogenes</i> display an enhanced growth and alkaloid metabolism. <i>Plant Science</i> , 2018, 277, 166-176.	1.7	3
54	Étude de l'influence de la ramification du stolon sur la distribution des assimilats chez le trèfle blanc ( <i>Trifolium repens</i> L.). <i>Agronomy for Sustainable Development</i> , 1989, 9, 849-857.	0.8	3

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55	Growth potential of buds of two contrasting cultivars of white clover during winter and early spring. <i>Journal of Agricultural Science</i> , 2001, 136, 215-220.	0.6	2
56	Effet d'un déficit hydrique sur le trèfle blanc ( <i>Trifolium repens</i> L) I. Rôle d'un apport de potassium. <i>Agronomy for Sustainable Development</i> , 1990, 10, 9-14.	0.8	2