

# Christelle Am Robert

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

4,428  
citations

126907

33  
h-index

128289

60  
g-index

71  
all docs

71  
docs citations

71  
times ranked

4377  
citing authors

#	ARTICLE	IF	CITATIONS
1	Root exudate metabolites drive plant-soil feedbacks on growth and defense by shaping the rhizosphere microbiota. <i>Nature Communications</i> , 2018, 9, 2738.	12.8	861
2	Indole is an essential herbivore-induced volatile priming signal in maize. <i>Nature Communications</i> , 2015, 6, 6273.	12.8	349
3	The maize lipoxygenase, <i>ZmLOX10</i> , mediates green leaf volatile, jasmonate and herbivore-induced plant volatile production for defense against insect attack. <i>Plant Journal</i> , 2013, 74, 59-73.	5.7	217
4	Sequence of arrival determines plant-mediated interactions between herbivores. <i>Journal of Ecology</i> , 2011, 99, 7-15.	4.0	160
5	Herbivore-induced plant volatiles mediate host selection by a root herbivore. <i>New Phytologist</i> , 2012, 194, 1061-1069.	7.3	152
6	Leaf-herbivore attack reduces carbon reserves and regrowth from the roots via jasmonate and auxin signaling. <i>New Phytologist</i> , 2013, 200, 1234-1246.	7.3	150
7	Metabolomics reveals herbivore-induced metabolites of resistance and susceptibility in maize leaves and roots. <i>Plant, Cell and Environment</i> , 2013, 36, 621-639.	5.7	149
8	A specialist root herbivore exploits defensive metabolites to locate nutritious tissues. <i>Ecology Letters</i> , 2012, 15, 55-64.	6.4	146
9	Whole-genome-based revisit of <i>Photorhabdus</i> phylogeny: proposal for the elevation of most <i>Photorhabdus</i> subspecies to the species level and description of one novel species <i>Photorhabdus bodei</i> sp. nov., and one novel subspecies <i>Photorhabdus laumondii</i> subsp. <i>clarkei</i> subsp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 2664-2681.	1.7	132
10	Induced Jasmonate Signaling Leads to Contrasting Effects on Root Damage and Herbivore Performance. <i>Plant Physiology</i> , 2015, 167, 1100-1116.	4.8	104
11	Plant iron acquisition strategy exploited by an insect herbivore. <i>Science</i> , 2018, 361, 694-697.	12.6	98
12	Genetically engineered maize plants reveal distinct costs and benefits of constitutive volatile emissions in the field. <i>Plant Biotechnology Journal</i> , 2013, 11, 628-639.	8.3	90
13	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. <i>Plant Cell</i> , 2016, 28, tpc.00065.2016.	6.6	87
14	Herbivore intoxication as a potential primary function of an inducible volatile plant signal. <i>Journal of Ecology</i> , 2016, 104, 591-600.	4.0	83
15	Synergies and trade-offs between insect and pathogen resistance in maize leaves and roots. <i>Plant, Cell and Environment</i> , 2011, 34, 1088-1103.	5.7	82
16	Systemic root signalling in a belowground, volatile-mediated tritrophic interaction. <i>Plant, Cell and Environment</i> , 2011, 34, 1267-1275.	5.7	80
17	Fine-tuning the "plant domestication-reduced defense" hypothesis: specialist vs generalist herbivores. <i>New Phytologist</i> , 2018, 217, 355-366.	7.3	79
18	Sequestration of plant secondary metabolites by insect herbivores: molecular mechanisms and ecological consequences. <i>Current Opinion in Insect Science</i> , 2016, 14, 8-11.	4.4	78

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19	Highly localized and persistent induction of density-dependent herbivore resistance factors in maize. <i>Plant Journal</i> , 2016, 88, 976-991.	5.7	76
20	A specialist root herbivore reduces plant resistance and uses an induced plant volatile to aggregate in a density-dependent manner. <i>Functional Ecology</i> , 2012, 26, 1429-1440.	3.6	75
21	A Latex Metabolite Benefits Plant Fitness under Root Herbivore Attack. <i>PLoS Biology</i> , 2016, 14, e1002332.	5.6	71
22	Fungal resistance mediated by maize wall-associated kinase ZmWAK1 correlates with reduced benzoxazinoid content. <i>New Phytologist</i> , 2019, 221, 976-987.	7.3	71
23	Auxin Is Rapidly Induced by Herbivore Attack and Regulates a Subset of Systemic, Jasmonate-Dependent Defenses. <i>Plant Physiology</i> , 2016, 172, 521-532.	4.8	69
24	Sequestration and activation of plant toxins protect the western corn rootworm from enemies at multiple trophic levels. <i>ELife</i> , 2017, 6, .	6.0	68
25	Induced Immunity Against Belowground Insect Herbivores- Activation of Defenses in the Absence of a Jasmonate Burst. <i>Journal of Chemical Ecology</i> , 2012, 38, 629-640.	1.8	66
26	Selinene Volatiles Are Essential Precursors for Maize Defense Promoting Fungal Pathogen Resistance. <i>Plant Physiology</i> , 2017, 175, 1455-1468.	4.8	61
27	Induced carbon reallocation and compensatory growth as root herbivore tolerance mechanisms. <i>Plant, Cell and Environment</i> , 2014, 37, 2613-2622.	5.7	60
28	Oviposition by a moth suppresses constitutive and herbivore-induced plant volatiles in maize. <i>Planta</i> , 2011, 234, 207-215.	3.2	59
29	Convergent evolution of a metabolic switch between aphid and caterpillar resistance in cereals. <i>Science Advances</i> , 2018, 4, eaat6797.	10.3	58
30	Plant defense resistance in natural enemies of a specialist insect herbivore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23174-23181.	7.1	53
31	New frontiers in belowground ecology for plant protection from root-feeding insects. <i>Applied Soil Ecology</i> , 2016, 108, 96-107.	4.3	49
32	The Role of Plant Primary and Secondary Metabolites in Root-Herbivore Behaviour, Nutrition and Physiology. <i>Advances in Insect Physiology</i> , 2013, 45, 53-95.	2.7	44
33	A physiological and behavioral mechanism for leaf-herbivore induced systemic root resistance. <i>Plant Physiology</i> , 2015, 169, pp.00759.2015.	4.8	44
34	Direct and Indirect Plant Defenses are not Suppressed by Endosymbionts of a Specialist Root Herbivore. <i>Journal of Chemical Ecology</i> , 2013, 39, 507-515.	1.8	36
35	Carbon-11 Reveals Opposing Roles of Auxin and Salicylic Acid in Regulating Leaf Physiology, Leaf Metabolism, and Resource Allocation Patterns that Impact Root Growth in <i>Zea mays</i> . <i>Journal of Plant Growth Regulation</i> , 2014, 33, 328-339.	5.1	34
36	A mechanism for sequence specificity in plant-mediated interactions between herbivores. <i>New Phytologist</i> , 2017, 214, 169-179.	7.3	34

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37	Engineering bacterial symbionts of nematodes improves their biocontrol potential to counter the western corn rootworm. <i>Nature Biotechnology</i> , 2020, 38, 600-608.	17.5	27
38	Dynamic Precision Phenotyping Reveals Mechanism of Crop Tolerance to Root Herbivory. <i>Plant Physiology</i> , 2016, 172, pp.00735.2016.	4.8	23
39	Soil chemistry determines whether defensive plant secondary metabolites promote or suppress herbivore growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	22
40	Entomopathogenic nematodes increase predation success by inducing cadaver volatiles that attract healthy herbivores. <i>ELife</i> , 2019, 8, .	6.0	21
41	Entomopathogenic nematodes from Mexico that can overcome the resistance mechanisms of the western corn rootworm. <i>Scientific Reports</i> , 2020, 10, 8257.	3.3	20
42	Chemical host-seeking cues of entomopathogenic nematodes. <i>Current Opinion in Insect Science</i> , 2021, 44, 72-81.	4.4	20
43	Belowground herbivore tolerance involves delayed overcompensatory root regrowth in maize. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 157, 113-120.	1.4	15
44	The plant metabolome guides fitness-relevant foraging decisions of a specialist herbivore. <i>PLoS Biology</i> , 2021, 19, e3001114.	5.6	15
45	Impact of Seasonal and Temperature-Dependent Variation in Root Defense Metabolites on Herbivore Preference in <i>Taraxacum officinale</i> . <i>Journal of Chemical Ecology</i> , 2020, 46, 63-75.	1.8	14
46	Western Corn Rootworm, Plant and Microbe Interactions: A Review and Prospects for New Management Tools. <i>Insects</i> , 2021, 12, 171.	2.2	14
47	A Differential Role of Volatiles from Conspecific and Heterospecific Competitors in the Selection of Oviposition Sites by the Aphidophagous Hoverfly <i>Sphaerophoria rueppellii</i> . <i>Journal of Chemical Ecology</i> , 2015, 41, 493-500.	1.8	13
48	Influence of drought on plant performance through changes in belowground tritrophic interactions. <i>Ecology and Evolution</i> , 2018, 8, 6756-6765.	1.9	12
49	Induction of root-resistance by leaf-herbivory follows a vertical gradient. <i>Journal of Plant Interactions</i> , 2011, 6, 133-136.	2.1	11
50	A conserved pattern in plant-mediated interactions between herbivores. <i>Ecology and Evolution</i> , 2016, 6, 1032-1040.	1.9	10
51	Herbivore-induced plant volatiles mediate defense regulation in maize leaves but not in maize roots. <i>Plant, Cell and Environment</i> , 2021, 44, 2672-2686.	5.7	10
52	Using plant chemistry to improve interactions between plants, herbivores and their natural enemies: challenges and opportunities. <i>Current Opinion in Biotechnology</i> , 2021, 70, 262-265.	6.6	8
53	A beta-glucosidase of an insect herbivore determines both toxicity and deterrence of a dandelion defense metabolite. <i>ELife</i> , 2021, 10, .	6.0	8
54	Adapted dandelions trade dispersal for germination upon root herbivore attack. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192930.	2.6	7

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55	Natural enemies of herbivores maintain their biological control potential under short-term exposure to future CO <sub>2</sub> , temperature, and precipitation patterns. <i>Ecology and Evolution</i> , 2021, 11, 4182-4192.	1.9	7
56	Climate Change Modulates Multitrophic Interactions Between Maize, A Root Herbivore, and Its Enemies. <i>Journal of Chemical Ecology</i> , 2021, 47, 889-906.	1.8	6
57	Correlated Induction of Phytohormones and Glucosinolates Shapes Insect Herbivore Resistance of Cardamine Species Along Elevational Gradients. <i>Journal of Chemical Ecology</i> , 2019, 45, 638-648.	1.8	5
58	Volatile-mediated defence regulation occurs in maize leaves but not in maize root. <i>Plant, Cell and Environment</i> , 2020, , .	5.7	4
59	ZEITLUPE facilitates the rhythmic movements of <i>Nicotiana attenuata</i> flowers. <i>Plant Journal</i> , 2020, 103, 308-322.	5.7	2