Christelle Am Robert

List of Publications by Year
in descending order

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	Western Corn Rootworm, Plant and Microbe Interactions: A Review and Prospects for New Management Tools. Insects, 2021, 12, 171.	2.2	14
2	The plant metabolome guides fitness-relevant foraging decisions of a specialist herbivore. PLoS Biology, 2021, 19, e3001114.	5.6	15
3	Natural enemies of herbivores maintain their biological control potential under shortâ€term exposure to future CO₂, temperature, and precipitation patterns. Ecology and Evolution, 2021, 11, 4182-4192.	1.9	7
4	Chemical host-seeking cues of entomopathogenic nematodes. Current Opinion in Insect Science, 2021, 44, 72-81.	4.4	20
5	Herbivoreâ€induced plant volatiles mediate defense regulation in maize leaves but not in maize roots. Plant, Cell and Environment, 2021, 44, 2672-2686.	5.7	10
6	Using plant chemistry to improve interactions between plants, herbivores and their natural enemies: challenges and opportunities. Current Opinion in Biotechnology, 2021, 70, 262-265.	6.6	8
7	Climate Change Modulates Multitrophic Interactions Between Maize, A Root Herbivore, and Its Enemies. Journal of Chemical Ecology, 2021, 47, 889-906.	1.8	6
8	Soil chemistry determines whether defensive plant secondary metabolites promote or suppress herbivore growth. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
9	A beta-glucosidase of an insect herbivore determines both toxicity and deterrence of a dandelion defense metabolite. ELife, 2021, 10, .	6.0	8
10	Impact of Seasonal and Temperature-Dependent Variation in Root Defense Metabolites on Herbivore Preference in Taraxacum officinale. Journal of Chemical Ecology, 2020, 46, 63-75.	1.8	14
11	Volatileâ€mediated defence regulation occurs in maize leaves but not in maize root. Plant, Cell and Environment, 2020, , .	5.7	4
12	Entomopathogenic nematodes from Mexico that can overcome the resistance mechanisms of the western corn rootworm. Scientific Reports, 2020, 10, 8257.	3.3	20
13	Adapted dandelions trade dispersal for germination upon root herbivore attack. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192930.	2.6	7
14	ZEITLUPE facilitates the rhythmic movements of Nicotiana attenuata flowers. Plant Journal, 2020, 103, 308-322.	5.7	2
15	Engineering bacterial symbionts of nematodes improves their biocontrol potential to counter the western corn rootworm. Nature Biotechnology, 2020, 38, 600-608.	17.5	27
16	Correlated Induction of Phytohormones and Glucosinolates Shapes Insect Herbivore Resistance of Cardamine Species Along Elevational Gradients. Journal of Chemical Ecology, 2019, 45, 638-648.	1.8	5
17	Plant defense resistance in natural enemies of a specialist insect herbivore. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23174-23181.	7.1	53
18	Fungal resistance mediated by maize wallâ€associated kinase Zm<scp>WAK</scp>â€<scp>RLK</scp>1 correlates with reduced benzoxazinoid content. New Phytologist, 2019, 221, 976-987.	7.3	71

#	Article	IF	Citations
19	Entomopathogenic nematodes increase predation success by inducing cadaver volatiles that attract healthy herbivores. ELife, 2019, 8, .	6.0	21
20	Fineâ€tuning the â€˜plant domesticationâ€reduced defenseâ€™ hypothesis: specialist vs generalist herbivores. New Phytologist, 2018, 217, 355-366.	7.3	79
21	Convergent evolution of a metabolic switch between aphid and caterpillar resistance in cereals. Science Advances, 2018, 4, eaat6797.	10.3	58
22	Influence of drought on plant performance through changes in belowground tritrophic interactions. Ecology and Evolution, 2018, 8, 6756-6765.	1.9	12
23	Root exudate metabolites drive plant-soil feedbacks on growth and defense by shaping the rhizosphere microbiota. Nature Communications, 2018, 9, 2738.	12.8	861
24	Plant iron acquisition strategy exploited by an insect herbivore. Science, 2018, 361, 694-697.	12.6	98
25	Whole-genome-based revisit of Photorhabdus phylogeny: proposal for the elevation of most Photorhabdus subspecies to the species level and description of one novel species Photorhabdus bodei sp. nov., and one novel subspecies Photorhabdus laumondii subsp. clarkei subsp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 2664-2681.	1.7	132
26	A mechanism for sequence specificity in plantâ€mediated interactions between herbivores. New Phytologist, 2017, 214, 169-179.	7.3	34
27	Selinene Volatiles Are Essential Precursors for Maize Defense Promoting Fungal Pathogen Resistance. Plant Physiology, 2017, 175, 1455-1468.	4.8	61
28	Sequestration and activation of plant toxins protect the western corn rootworm from enemies at multiple trophic levels. ELife, 2017, 6, .	6.0	68
29	A Latex Metabolite Benefits Plant Fitness under Root Herbivore Attack. PLoS Biology, 2016, 14, e1002332.	5.6	71
30	Dynamic Precision Phenotyping Reveals Mechanism of Crop Tolerance to Root Herbivory. Plant Physiology, 2016, 172, pp.00735.2016.	4.8	23
31	A conserved pattern in plantâ€mediated interactions between herbivores. Ecology and Evolution, 2016, 6, 1032-1040.	1.9	10
32	Auxin Is Rapidly Induced by Herbivore Attack and Regulates a Subset of Systemic, Jasmonate-Dependent Defenses. Plant Physiology, 2016, 172, 521-532.	4.8	69
33	New frontiers in belowground ecology for plant protection from root-feeding insects. Applied Soil Ecology, 2016, 108, 96-107.	4.3	49
34	Highly localized and persistent induction of Bx1â€dependent herbivore resistance factors in maize. Plant Journal, 2016, 88, 976-991.	5.7	76
35	Herbivore intoxication as a potential primary function of an inducible volatile plant signal. Journal of Ecology, 2016, 104, 591-600.	4.0	83
36	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. Plant Cell, 2016, 28, tpc.00065.2016.	6.6	87

#	Article	IF	Citations
37	Sequestration of plant secondary metabolites by insect herbivores: molecular mechanisms and ecological consequences. Current Opinion in Insect Science, 2016, 14, 8-11.	4.4	78
38	Belowground herbivore tolerance involves delayed overcompensatory root regrowth in maize. Entomologia Experimentalis Et Applicata, 2015, 157, 113-120.	1.4	15
39	A physiological and behavioral mechanism for leaf-herbivore induced systemic root resistance. Plant Physiology, 2015, 169, pp.00759.2015.	4.8	44
40	Induced Jasmonate Signaling Leads to Contrasting Effects on Root Damage and Herbivore Performance. Plant Physiology, 2015, 167, 1100-1116.	4.8	104
41	Indole is an essential herbivore-induced volatile priming signal in maize. Nature Communications, 2015, 6, 6273.	12.8	349
42	A Differential Role of Volatiles from Conspecific and Heterospecific Competitors in the Selection of Oviposition Sites by the Aphidophagous Hoverfly Sphaerophoria rueppellii. Journal of Chemical Ecology, 2015, 41, 493-500.	1.8	13
43	Induced carbon reallocation and compensatory growth as root herbivore tolerance mechanisms. Plant, Cell and Environment, 2014, 37, 2613-2622.	5.7	60
44	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 Zea mays. Journal of Plant Growth Regulation, 2014, 33, 328-339.	5.1	34
45	Direct and Indirect Plant Defenses are not Suppressed by Endosymbionts of a Specialist Root Herbivore. Journal of Chemical Ecology, 2013, 39, 507-515.	1.8	36
46	Leafâ€herbivore attack reduces carbon reserves and regrowth from the roots via jasmonate and auxin signaling. New Phytologist, 2013, 200, 1234-1246.	7.3	150
47	Metabolomics reveals herbivoreâ€induced metabolites of resistance and susceptibility in maize leaves and roots. Plant, Cell and Environment, 2013, 36, 621-639.	5.7	149
48	The maize lipoxygenase, Zm<scp>LOX</scp>10, mediates green leaf volatile, jasmonate and herbivoreâ€induced plant volatile production for defense against insect attack. Plant Journal, 2013, 74, 59-73.	5.7	217
49	Genetically engineered maize plants reveal distinct costs and benefits of constitutive volatile emissions in the field. Plant Biotechnology Journal, 2013, 11, 628-639.	8.3	90
50	The Role of Plant Primary and Secondary Metabolites in Root-Herbivore Behaviour, Nutrition and Physiology. Advances in Insect Physiology, 2013, 45, 53-95.	2.7	44
51	Herbivoreâ€induced plant volatiles mediate host selection by a root herbivore. New Phytologist, 2012, 194, 1061-1069.	7.3	152
52	Induced Immunity Against Belowground Insect Herbivores- Activation of Defenses in the Absence of a Jasmonate Burst. Journal of Chemical Ecology, 2012, 38, 629-640.	1.8	66
53	A specialist root herbivore exploits defensive metabolites to locate nutritious tissues. Ecology Letters, 2012, 15, 55-64.	6.4	146
54	A specialist root herbivore reduces plant resistance and uses an induced plant volatile to aggregate in a densityâ€dependent manner. Functional Ecology, 2012, 26, 1429-1440.	3.6	75

#	Article	IF	Citations
55	Synergies and tradeâ€offs between insect and pathogen resistance in maize leaves and roots. Plant, Cell and Environment, 2011, 34, 1088-1103.	5.7	82
56	Systemic root signalling in a belowground, volatileâ€mediated tritrophic interaction. Plant, Cell and Environment, 2011, 34, 1267-1275.	5.7	80
57	Sequence of arrival determines plantâ€mediated interactions between herbivores. Journal of Ecology, 2011, 99, 7-15.	4.0	160
58	Oviposition by a moth suppresses constitutive and herbivore-induced plant volatiles in maize. Planta, 2011, 234, 207-215.	3.2	59
59	Induction of root-resistance by leaf-herbivory follows a vertical gradient. Journal of Plant Interactions, 2011, 6, 133-136.	2.1	11