

Roland Mumm

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67
papers

3,546
citations

34
h-index

59
g-index

69
ext. papers

4,201
ext. citations

5.4
avg, IF

5.24
L-index

#	Paper	IF	Citations
67	Variation in natural plant products and the attraction of bodyguards involved in indirect plant defense. The present review is one in the special series of reviews on animal-plant interactions. <i>Canadian Journal of Zoology</i> , 2010 , 88, 628-667	1.5	222
66	Whiteflies interfere with indirect plant defense against spider mites in Lima bean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 21202-7	11.5	205
65	Foraging behavior of egg parasitoids exploiting chemical information. <i>Behavioral Ecology</i> , 2008 , 19, 677-689	6.89	202
64	Diversity of global rice markets and the science required for consumer-targeted rice breeding. <i>PLoS ONE</i> , 2014 , 9, e85106	3.7	161
63	Composition of human skin microbiota affects attractiveness to malaria mosquitoes. <i>PLoS ONE</i> , 2011 , 6, e28991	3.7	157
62	Direct and indirect chemical defence of pine against folivorous insects. <i>Trends in Plant Science</i> , 2006 , 11, 351-8	13.1	149
61	Jasmonic acid-induced volatiles of Brassica oleracea attract parasitoids: effects of time and dose, and comparison with induction by herbivores. <i>Journal of Experimental Botany</i> , 2009 , 60, 2575-87	7	132
60	Improved batch correction in untargeted MS-based metabolomics. <i>Metabolomics</i> , 2016 , 12, 88	4.7	122
59	The significance of background odour for an egg parasitoid to detect plants with host eggs. <i>Chemical Senses</i> , 2005 , 30, 337-43	4.8	121
58	Isoprene interferes with the attraction of bodyguards by herbaceous plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17430-5	11.5	117
57	Diversity and functions of volatile organic compounds produced by Streptomyces from a disease-suppressive soil. <i>Frontiers in Microbiology</i> , 2015 , 6, 1081	5.7	113
56	Significance of terpenoids in induced indirect plant defence against herbivorous arthropods. <i>Plant, Cell and Environment</i> , 2008 , 31, 575-85	8.4	103
55	Chemical analysis of volatiles emitted by Pinus sylvestris after induction by insect oviposition. <i>Journal of Chemical Ecology</i> , 2003 , 29, 1235-52	2.7	103
54	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , 2011 , 190, 683-96	9.8	101
53	Untargeted metabolic quantitative trait loci analyses reveal a relationship between primary metabolism and potato tuber quality. <i>Plant Physiology</i> , 2012 , 158, 1306-18	6.6	101
52	Male-derived butterfly anti-aphrodisiac mediates induced indirect plant defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 10033-8	11.5	96
51	Insect egg deposition induces defence responses in Pinus sylvestris: characterisation of the elicitor. <i>Journal of Experimental Biology</i> , 2005 , 208, 1849-54	3	78

50	Formation of simple nitriles upon glucosinolate hydrolysis affects direct and indirect defense against the specialist herbivore, <i>Pieris rapae</i> . <i>Journal of Chemical Ecology</i> , 2008 , 34, 1311-21	2.7	76
49	The herbivore-induced plant volatile methyl salicylate negatively affects attraction of the parasitoid <i>Diadegma semiclausum</i> . <i>Journal of Chemical Ecology</i> , 2010 , 36, 479-89	2.7	69
48	Natural variation in herbivore-induced volatiles in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2010 , 61, 3041-56	7	66
47	Mass spectrometry-based metabolomics of volatiles as a new tool for understanding aroma and flavour chemistry in processed food products. <i>Metabolomics</i> , 2019 , 15, 41	4.7	58
46	Metabolomic and elemental profiling of melon fruit quality as affected by genotype and environment. <i>Metabolomics</i> , 2013 , 9, 57-77	4.7	56
45	Metabolomics analysis of postharvest ripening heterogeneity of Hass avocados. <i>Postharvest Biology and Technology</i> , 2014 , 92, 172-179	6.2	51
44	Metabolomics in melon: a new opportunity for aroma analysis. <i>Phytochemistry</i> , 2014 , 99, 61-72	4	51
43	Orchestration of transcriptome, proteome and metabolome in the diatom <i>Phaeodactylum tricornutum</i> during nitrogen limitation. <i>Algal Research</i> , 2018 , 35, 33-49	5	50
42	Choosy egg parasitoids: Specificity of oviposition-induced pine volatiles exploited by an egg parasitoid of pine sawflies. <i>Entomologia Experimentalis Et Applicata</i> , 2005 , 115, 217-225	2.1	49
41	Comprehensive metabolomics to evaluate the impact of industrial processing on the phytochemical composition of vegetable purees. <i>Food Chemistry</i> , 2015 , 168, 348-55	8.5	48
40	Plant Phenotypic and Transcriptional Changes Induced by Volatiles from the Fungal Root Pathogen. <i>Frontiers in Plant Science</i> , 2017 , 8, 1262	6.2	44
39	Identification and QTL mapping of whitefly resistance components in <i>Solanum galapagense</i> . <i>Theoretical and Applied Genetics</i> , 2013 , 126, 1487-501	6	43
38	The composition of carcass volatile profiles in relation to storage time and climate conditions. <i>Forensic Science International</i> , 2012 , 223, 64-71	2.6	42
37	Differences in acidity of apples are probably mainly caused by a malic acid transporter gene on LG16. <i>Tree Genetics and Genomes</i> , 2013 , 9, 475-487	2.1	40
36	Analysis of volatiles from black pine (<i>Pinus nigra</i>): significance of wounding and egg deposition by a herbivorous sawfly. <i>Phytochemistry</i> , 2004 , 65, 3221-30	4	40
35	Anti-aphrodisiac compounds of male butterflies increase the risk of egg parasitoid attack by inducing plant synomone production. <i>Journal of Chemical Ecology</i> , 2009 , 35, 1373-81	2.7	39
34	(+)-Valencene production in <i>Nicotiana benthamiana</i> is increased by down-regulation of competing pathways. <i>Biotechnology Journal</i> , 2015 , 10, 180-9	5.6	37
33	Resistance factors in pepper inhibit larval development of thrips (<i>Frankliniella occidentalis</i>). <i>Entomologia Experimentalis Et Applicata</i> , 2012 , 145, 62-71	2.1	33

32	Courtship pheromones in parasitic wasps: comparison of bioactive and inactive hydrocarbon profiles by multivariate statistical methods. <i>Journal of Chemical Ecology</i> , 2007 , 33, 825-38	2.7	33
31	Relation between HLA genes, human skin volatiles and attractiveness of humans to malaria mosquitoes. <i>Infection, Genetics and Evolution</i> , 2013 , 18, 87-93	4.5	29
30	Delving deeper into technological innovations to understand differences in rice quality. <i>Rice</i> , 2015 , 8, 43	5.8	24
29	Chemical and Sensory Characteristics of Soy Sauce: A Review. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 11612-11630	5.7	24
28	Metabolic responses of Eucalyptus species to different temperature regimes. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 397-411	8.3	22
27	<i>Gomphrena claussenii</i> , a novel metal-hypertolerant bioindicator species, sequesters cadmium, but not zinc, in vacuolar oxalate crystals. <i>New Phytologist</i> , 2015 , 208, 763-75	9.8	20
26	Comparative Metabolomics and Molecular Phylogenetics of Melon (Cucurbitaceae) Biodiversity. <i>Metabolites</i> , 2020 , 10,	5.6	19
25	Comparison of volatile trapping techniques for the comprehensive analysis of food flavourings by Gas Chromatography-Mass Spectrometry. <i>Journal of Chromatography A</i> , 2020 , 1624, 461191	4.5	18
24	Reciprocal cybrids reveal how organellar genomes affect plant phenotypes. <i>Nature Plants</i> , 2020 , 6, 13-21	11.5	17
23	Comparison of the chemical composition of three species of smartweed (genus <i>Persicaria</i>) with a focus on drimane sesquiterpenoids. <i>Phytochemistry</i> , 2014 , 108, 129-36	4	17
22	Green and White Asparagus : A Source of Developmental, Chemical and Urinary Intrigue. <i>Metabolites</i> , 2019 , 10,	5.6	17
21	Comparing induction at an early and late step in signal transduction mediating indirect defence in Brassica oleracea. <i>Journal of Experimental Botany</i> , 2009 , 60, 2589-99	7	15
20	Defense of pyrethrum flowers: repelling herbivores and recruiting carnivores by producing aphid alarm pheromone. <i>New Phytologist</i> , 2019 , 223, 1607-1620	9.8	14
19	Normal adult survival but reduced Bemisia tabaci oviposition rate on tomato lines carrying an introgression from S. habrochaites. <i>BMC Genetics</i> , 2014 , 15, 142	2.6	13
18	Quantitative resistance against Bemisia tabaci in Solanum pennellii: Genetics and metabolomics. <i>Journal of Integrative Plant Biology</i> , 2016 , 58, 397-412	8.3	13
17	Characterization of Male-Produced Aggregation Pheromone of the Bean Flower Thrips Megalurothrips sjostedti (Thysanoptera: Thripidae). <i>Journal of Chemical Ecology</i> , 2019 , 45, 348-355	2.7	11
16	Maltodextrin improves physical properties and volatile compound retention of spray-dried asparagus concentrate. <i>LWT - Food Science and Technology</i> , 2021 , 142, 111058	5.4	10
15	Use of New Generation Single Nucleotide Polymorphism Genotyping for Rapid Development of Near-Isogenic Lines in Rice. <i>Crop Science</i> , 2011 , 51, 2067-2073	2.4	8

14	Early biotic stress detection in tomato (<i>Solanum lycopersicum</i>) by BVOC emissions. <i>Phytochemistry</i> , 2017 , 144, 180-188	4	7
13	A Multidisciplinary Phenotyping and Genotyping Analysis of a Mapping Population Enables Quality to Be Combined with Yield in Rice. <i>Frontiers in Molecular Biosciences</i> , 2017 , 4, 32	5.6	7
12	Risk of egg parasitoid attraction depends on anti-aphrodisiac titre in the large cabbage white butterfly <i>Pieris brassicae</i> . <i>Journal of Chemical Ecology</i> , 2011 , 37, 364-7	2.7	7
11	Metabolomics reveals the within-plant spatial effects of shading on tea plants. <i>Tree Physiology</i> , 2021 , 41, 317-330	4.2	6
10	Comparative compositions of metabolites and dietary fibre components in doughs and breads produced from bread wheat, emmer and spelt and using yeast and sourdough processes. <i>Food Chemistry</i> , 2021 , 374, 131710	8.5	4
9	The effect of partial replacement of maltodextrin with vegetable fibres in spray-dried white asparagus powder on its physical and aroma properties. <i>Food Chemistry</i> , 2021 , 356, 129567	8.5	4
8	Analyses of metabolic activity in peanuts under hermetic storage at different relative humidity levels. <i>Food Chemistry</i> , 2021 , 131020	8.5	4
7	Natural variation in specialised metabolites production in the leafy vegetable spider plant (<i>Gynandropsis gynandra</i> L. (Briq.)) in Africa and Asia. <i>Phytochemistry</i> , 2020 , 178, 112468	4	3
6	Cross-platform comparative analyses of genetic variation in amino acid content in potato tubers. <i>Metabolomics</i> , 2014 , 10, 1239-1257	4.7	2
5	Metabolomics Reveals Heterogeneity in the Chemical Composition of Green and White Spears of Asparagus (). <i>Metabolites</i> , 2021 , 11,	5.6	1
4	Metabolomics of Photosynthetically Active Tissues in White Grapes: Effects of Light Microclimate and Stress Mitigation Strategies. <i>Metabolites</i> , 2021 , 11,	5.6	1
3	Stir bar sorptive extraction of aroma compounds in soy sauce: Revealing the chemical diversity. <i>Food Research International</i> , 2021 , 144, 110348	7	1
2	Robust and Confident Predictor Selection in Metabolomics 2017 , 239-257		0
1	Systematic selection of competing metabolomics methods in a metabolite-sensory relationship study. <i>Metabolomics</i> , 2021 , 17, 77	4.7	0