

Roland Mumm

List of Publications by Year in Descending Order

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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	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
66	Metabolomics Reveals Heterogeneity in the Chemical Composition of Green and White Spears of Asparagus (). <i>Metabolites</i> , 2021 , 11,	5.6	1
65	Metabolomics of Photosynthetically Active Tissues in White Grapes: Effects of Light Microclimate and Stress Mitigation Strategies. <i>Metabolites</i> , 2021 , 11,	5.6	1
64	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
63	Stir bar sorptive extraction of aroma compounds in soy sauce: Revealing the chemical diversity. <i>Food Research International</i> , 2021 , 144, 110348	7	1
62	Metabolomics reveals the within-plant spatial effects of shading on tea plants. <i>Tree Physiology</i> , 2021 , 41, 317-330	4.2	6
61	Systematic selection of competing metabolomics methods in a metabolite-sensory relationship study. <i>Metabolomics</i> , 2021 , 17, 77	4.7	0
60	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
59	Analyses of metabolic activity in peanuts under hermetic storage at different relative humidity levels. <i>Food Chemistry</i> , 2021 , 131020	8.5	4
58	Reciprocal cybrids reveal how organellar genomes affect plant phenotypes. <i>Nature Plants</i> , 2020 , 6, 13-21	11.5	17
57	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
56	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
55	Chemical and Sensory Characteristics of Soy Sauce: A Review. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 11612-11630	5.7	24
54	Comparative Metabolomics and Molecular Phylogenetics of Melon (, Cucurbitaceae) Biodiversity. <i>Metabolites</i> , 2020 , 10,	5.6	19
53	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
52	Characterization of Male-Produced Aggregation Pheromone of the Bean Flower Thrips <i>Megalurothrips sjostedti</i> (Thysanoptera: Thripidae). <i>Journal of Chemical Ecology</i> , 2019 , 45, 348-355	2.7	11
51	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

50	Green and White Asparagus : A Source of Developmental, Chemical and Urinary Intrigue. <i>Metabolites</i> , 2019 , 10,	5.6	17
49	Metabolic responses of Eucalyptus species to different temperature regimes. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 397-411	8.3	22
48	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
47	Robust and Confident Predictor Selection in Metabolomics 2017 , 239-257		0
46	Early biotic stress detection in tomato (<i>Solanum lycopersicum</i>) by BVOC emissions. <i>Phytochemistry</i> , 2017 , 144, 180-188	4	7
45	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
44	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
43	Improved batch correction in untargeted MS-based metabolomics. <i>Metabolomics</i> , 2016 , 12, 88	4.7	122
42	Quantitative resistance against <i>Bemisia tabaci</i> in <i>Solanum pennellii</i> : Genetics and metabolomics. <i>Journal of Integrative Plant Biology</i> , 2016 , 58, 397-412	8.3	13
41	Delving deeper into technological innovations to understand differences in rice quality. <i>Rice</i> , 2015 , 8, 43	5.8	24
40	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
39	(+)-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
38	<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
37	Diversity and functions of volatile organic compounds produced by <i>Streptomyces</i> from a disease-suppressive soil. <i>Frontiers in Microbiology</i> , 2015 , 6, 1081	5.7	113
36	Metabolomics analysis of postharvest ripening heterogeneity of Hass Avocados. <i>Postharvest Biology and Technology</i> , 2014 , 92, 172-179	6.2	51
35	Metabolomics in melon: a new opportunity for aroma analysis. <i>Phytochemistry</i> , 2014 , 99, 61-72	4	51
34	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
33	Cross-platform comparative analyses of genetic variation in amino acid content in potato tubers. <i>Metabolomics</i> , 2014 , 10, 1239-1257	4.7	2

32	Diversity of global rice markets and the science required for consumer-targeted rice breeding. <i>PLoS ONE</i> , 2014 , 9, e85106	3.7	161
31	Normal adult survival but reduced <i>Bemisia tabaci</i> oviposition rate on tomato lines carrying an introgression from <i>S. habrochaites</i> . <i>BMC Genetics</i> , 2014 , 15, 142	2.6	13
30	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
29	Metabolomic and elemental profiling of melon fruit quality as affected by genotype and environment. <i>Metabolomics</i> , 2013 , 9, 57-77	4.7	56
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	Composition of human skin microbiota affects attractiveness to malaria mosquitoes. <i>PLoS ONE</i> , 2011 , 6, e28991	3.7	157
19	Natural variation in herbivore-induced volatiles in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2010 , 61, 3041-56	7	66
18	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
17	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
16	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
15	Jasmonic acid-induced volatiles of <i>Brassica oleracea</i> 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

14	Comparing induction at an early and late step in signal transduction mediating indirect defence in <i>Brassica oleracea</i> . <i>Journal of Experimental Botany</i> , 2009 , 60, 2589-99	7	15
13	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
12	Significance of terpenoids in induced indirect plant defence against herbivorous arthropods. <i>Plant, Cell and Environment</i> , 2008 , 31, 575-85	8.4	103
11	Foraging behavior of egg parasitoids exploiting chemical information. <i>Behavioral Ecology</i> , 2008 , 19, 677-689	6.9	202
10	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
9	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
8	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
7	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
6	Direct and indirect chemical defence of pine against folivorous insects. <i>Trends in Plant Science</i> , 2006 , 11, 351-8	13.1	149
5	Insect egg deposition induces defence responses in <i>Pinus sylvestris</i> : characterisation of the elicitor. <i>Journal of Experimental Biology</i> , 2005 , 208, 1849-54	3	78
4	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
3	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
2	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
1	Chemical analysis of volatiles emitted by <i>Pinus sylvestris</i> after induction by insect oviposition. <i>Journal of Chemical Ecology</i> , 2003 , 29, 1235-52	2.7	103