Gaetan Glauser

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2866167/publications.pdf

Version: 2024-02-01

187	8,489	44069	62596
papers	citations	48 h-index	80 g-index

204	204	204	9938
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Eight key rules for successful dataâ€dependent acquisition in mass spectrometryâ€based metabolomics. Mass Spectrometry Reviews, 2023, 42, 131-143.	5.4	42
2	Revisiting the trail pheromone components of the red imported fire ant, Solenopsis invicta Buren. Insect Science, 2023, 30, 161-172.	3.0	4
3	The effect of communityâ€wide phytochemical diversity on herbivory reverses from low to high elevation. Journal of Ecology, 2022, 110, 46-56.	4.0	10
4	Altered capsaicin levels in domesticated chili pepper varieties affect the interaction between a generalist herbivore and its ectoparasitoid. Journal of Pest Science, 2022, 95, 735-747.	3.7	10
5	Internal calibration as an emerging approach for endogenous analyte quantification: Application to steroids. Talanta, 2022, 240, 123149.	5.5	18
6	Multiple neonicotinoids in childrenâ€™s cerebro-spinal fluid, plasma, and urine. Environmental Health, 2022, 21, 10.	4.0	16
7	Leafminer attack accelerates the development of soilâ€dwelling conspecific pupae via plantâ€mediated changes in belowground volatiles. New Phytologist, 2022, 234, 280-294.	7.3	9
8	The effect of squash domestication on a belowground tritrophic interaction. Plant-Environment Interactions, 2022, 3, 28-39.	1.5	5
9	The MIK2/SCOOP Signaling System Contributes to Arabidopsis Resistance Against Herbivory by Modulating Jasmonate and Indole Glucosinolate Biosynthesis. Frontiers in Plant Science, 2022, 13, 852808.	3.6	11
10	Photosynthetic Light Harvesting and Thylakoid Organization in a CRISPR/Cas9 Arabidopsis Thaliana LHCB1 Knockout Mutant. Frontiers in Plant Science, 2022, 13, 833032.	3.6	16
11	ACA pumps maintain leaf excitability during herbivore onslaught. Current Biology, 2022, 32, 2517-2528.e6.	3.9	12
12	The effect of rootâ€associated microbes on plant growth and chemical defence traits across two contrasted elevations. Journal of Ecology, 2021, 109, 38-50.	4.0	4
13	Indole primes defence signalling and increases herbivore resistance in tea plants. Plant, Cell and Environment, 2021, 44, 1165-1177.	5.7	59
14	Ecological convergence of secondary phytochemicals along elevational gradients. New Phytologist, 2021, 229, 1755-1767.	7.3	11
15	Residues of neonicotinoids in soil, water and people's hair: A case study from three agricultural regions of the Philippines. Science of the Total Environment, 2021, 757, 143822.	8.0	60
16	VAPYRIN attenuates defence by repressing PR gene induction and localized lignin accumulation during arbuscular mycorrhizal symbiosis of Petunia hybrida. New Phytologist, 2021, 229, 3481-3496.	7.3	18
17	Early social experience has life-long effects on baseline but not stress-induced cortisol levels in a cooperatively breeding fish. Hormones and Behavior, 2021, 128, 104910.	2.1	12
18	Ultraviolet radiation modulates both constitutive and inducible plant defenses against thrips but is dose and plant genotype dependent. Journal of Pest Science, 2021, 94, 69-81.	3.7	19

#	Article	IF	Citations
19	No impact of neonicotinoids on male solitary bees Osmia cornuta under semiâ€field conditions. Physiological Entomology, 2021, 46, 105-109.	1.5	8
20	A multifaceted analysis reveals two distinct phases of chloroplast biogenesis during de-etiolation in Arabidopsis. ELife, 2021, 10, .	6.0	41
21	A membrane-bound ankyrin repeat protein confers race-specific leaf rust disease resistance in wheat. Nature Communications, 2021, 12, 956.	12.8	63
22	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
23	Phosphate Suppression of Arbuscular Mycorrhizal Symbiosis Involves Gibberellic Acid Signaling. Plant and Cell Physiology, 2021, 62, 959-970.	3.1	29
24	Squash Varieties Domesticated for Different Purposes Differ in Chemical and Physical Defense Against Leaf and Root Herbivores. Frontiers in Agronomy, 2021, 3, .	3.3	4
25	Standard methods for pollen research. Journal of Apicultural Research, 2021, 60, 1-109.	1.5	25
26	Metabolomics by UHPLC-Q-TOF Reveals Host Tree-Dependent Phytochemical Variation in Viscum album L.. Plants, 2021, 10, 1726.	3.5	20
27	Caterpillar-Induced Volatile Emissions in Cotton: The Relative Importance of Damage and Insect-Derived Factors. Frontiers in Plant Science, 2021, 12, 709858.	3.6	16
28	Soil composition and plant genotype determine benzoxazinoidâ€mediated plantâ€“soil feedbacks in cereals. Plant, Cell and Environment, 2021, 44, 3732-3744.	5.7	8
29	Contamination by neonicotinoid insecticides in barn owls (Tyto alba) and Alpine swifts (Tachymarptis) Tj ETQq1 1 0.784314 rgBT /Ov	8.0	18
30	Expression of the wheat disease resistance gene Lr34 in transgenic barley leads to accumulation of abscisic acid at the leaf tip. Plant Physiology and Biochemistry, 2021, 166, 950-957.	5.8	10
31	Insect eggs trigger systemic acquired resistance against a fungal and an oomycete pathogen. New Phytologist, 2021, 232, 2491-2505.	7.3	9
32	Increases in glucocorticoids are sufficient but not necessary to increase cooperative burrowing in Damaraland mole-rats. Hormones and Behavior, 2021, 135, 105034.	2.1	4
33	Determination of chlorothalonil metabolites in soil and water samples. Journal of Chromatography A, 2021, 1655, 462507.	3.7	9
34	Spatial and evolutionary predictability of phytochemical diversity. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	63
35	Varying impact of neonicotinoid insecticide and acute bee paralysis virus across castes and colonies of black garden ants, Lasius niger (Hymenoptera: Formicidae). Scientific Reports, 2021, 11, 20500.	3.3	5
36	Plant physical and chemical traits associated with herbivory in situ and under a warming treatment. Journal of Ecology, 2020, 108, 733-749.	4.0	23

#	Article	IF	Citations
37	Morphological and physiological consequences of a dietary restriction during early life in bats. Behavioral Ecology, 2020, 31, 475-486.	2.2	5
38	Physiological acclimation of a grass species occurs during sustained but not repeated drought events. Environmental and Experimental Botany, 2020, 171, 103954.	4.2	8
39	Jasmonate Precursor Biosynthetic Enzymes LOX3 and LOX4 Control Wound-Response Growth Restriction. Plant Physiology, 2020, 184, 1172-1180.	4.8	21
40	A receptor-like protein mediates plant immune responses to herbivore-associated molecular patterns. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31510-31518.	7.1	86
41	Volatileâ€mediated defence regulation occurs in maize leaves but not in maize root. Plant, Cell and Environment, 2020, , .	5.7	4
42	Oxidative costs of cooperation in cooperatively breeding Damaraland mole-rats. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201023.	2.6	9
43	Novel trophic interactions under climate change promote alpine plant coexistence. Science, 2020, 370, 1469-1473.	12.6	51
44	Chemical Basis of Floral Color Signals in Gesneriaceae: The Effect of Alternative Anthocyanin Pathways. Frontiers in Plant Science, 2020, 11, 604389.	3.6	8
45	To bee or not to bee: The â€˜raison d'Ãªtreâ€™ of toxic secondary compounds in the pollen of Boraginaceae. Functional Ecology, 2020, 34, 1345-1357.	3.6	12
46	Influence of surface water â€“ groundwater interactions on the spatial distribution of pesticide metabolites in groundwater. Science of the Total Environment, 2020, 733, 139109.	8.0	44
47	Entomopathogenic nematodes from Mexico that can overcome the resistance mechanisms of the western corn rootworm. Scientific Reports, 2020, 10, 8257.	3.3	20
48	Out of scale out of place: Black rhino forage preference across the hierarchical organization of the savanna ecosystem. Conservation Science and Practice, 2020, 2, e191.	2.0	3
49	Growth Temperature Influence on Lipids and Photosynthesis in Lepidium sativum. Frontiers in Plant Science, 2020, 11, 745.	3.6	7
50	Reduced access to cleaner fish negatively impacts the physiological state of two resident reef fishes. Marine Biology, 2020, 167, 1.	1.5	18
51	Long-term effects of neonicotinoid insecticides on ants. Communications Biology, 2020, 3, 335.	4.4	28
52	Plant surface metabolites as potent antifungal agents. Plant Physiology and Biochemistry, 2020, 150, 39-48.	5.8	9
53	FRS7 and FRS12 recruit NINJA to regulate expression of glucosinolate biosynthesis genes. New Phytologist, 2020, 227, 1124-1137.	7.3	17
54	Accumulation patterns of endogenous Î²â€aminobutyric acid during plant development and defence in Arabidopsis thaliana. Plant Biology, 2019, 21, 318-325.	3.8	15

#	Article	IF	Citations
55	Bottomâ€up control of geographic variation in insect herbivory on wild cotton (Gossypium) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	11
56	Ascaroside Signaling in the Bacterivorous Nematode Caenorhabditis remanei Encodes the Growth Phase of Its Bacterial Food Source. Organic Letters, 2019, 21, 5832-5837.	4.6	7
57	A sublethal dose of the neonicotinoid insecticide acetamiprid reduces sperm density in a songbird.. Environmental Research, 2019, 177, 108589.	7.5	26
58	Experimental manipulation of reproductive tactics in Sebaâ€™s short-tailed bats: consequences on sperm quality and oxidative status. Environmental Epigenetics, 2019, 65, 609-616.	1.8	2
59	Barley isochorismate synthase mutant is phylloquinone-deficient, but has normal basal salicylic acid level. Plant Signaling and Behavior, 2019, 14, 1671122.	2.4	9
60	Variable effects on growth and defense traits for plant ecotypic differentiation and phenotypic plasticity along elevation gradients. Ecology and Evolution, 2019, 9, 3740-3755.	1.9	32
61	Role of cyanogenic glycosides in the seeds of wild lima bean, Phaseolus lunatus: defense, plant nutrition or both?. Planta, 2019, 250, 1281-1292.	3.2	8
62	Plastoquinone homoeostasis by Arabidopsis proton gradient regulation 6 is essential for photosynthetic efficiency. Communications Biology, 2019, 2, 220.	4.4	24
63	The Arabidopsis Lectin Receptor Kinase LecRK-I.8 Is Involved in Insect Egg Perception. Frontiers in Plant Science, 2019, 10, 623.	3.6	46
64	Solid-phase extraction method for stable isotope analysis of pesticides from large volume environmental water samples. Analyst, The, 2019, 144, 2898-2908.	3.5	42
65	Early-life manipulation of cortisol and its receptor alters stress axis programming and social competence. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180119.	4.0	28
66	A survey and risk assessment of neonicotinoids in water, soil and sediments of Belize. Environmental Pollution, 2019, 249, 949-958.	7.5	79
67	New Insights on Arabidopsis thaliana Root Adaption to Ammonium Nutrition by the Use of a Quantitative Proteomic Approach. International Journal of Molecular Sciences, 2019, 20, 814.	4.1	22
68	A nationâ€wide survey of neonicotinoid insecticides in agricultural land with implications for agriâ€environment schemes. Journal of Applied Ecology, 2019, 56, 1502-1514.	4.0	71
69	Ultra-trace level determination of neonicotinoids in honey as a tool for assessing environmental contamination. Environmental Pollution, 2019, 247, 964-972.	7.5	28
70	Molecular Dissection of Early Defense Signaling Underlying Volatile-Mediated Defense Regulation and Herbivore Resistance in Rice. Plant Cell, 2019, 31, 687-698.	6.6	82
71	Social dominance, but not parasite load, affects sperm quality and sperm redox status in house sparrows. Journal of Experimental Biology, 2019, 222, .	1.7	4
72	Metabolic profiling as a tool for differentiating Viscum album ssp. album plants growing on various host trees. Phytomedicine, 2019, 61, 1-2.	5.3	3

#	Article	IF	Citations
73	Effects of earlyâ€season insect herbivory on subsequent pathogen infection and ant abundance on wild cotton (Gossypium hirsutum). Journal of Ecology, 2019, 107, 1518-1529.	4.0	15
74	A large-scale survey of house sparrows feathers reveals ubiquitous presence of neonicotinoids in farmlands. Science of the Total Environment, 2019, 660, 1091-1097.	8.0	52
75	Growthâ€competitionâ€herbivore resistance tradeâ€offs and the responses of alpine plant communities to climate change. Functional Ecology, 2018, 32, 1693-1703.	3.6	24
76	Root herbivore performance suppressed when feeding on a jasmonateâ€induced pasture grass. Ecological Entomology, 2018, 43, 547-550.	2.2	3
77	Nursing protects honeybee larvae from secondary metabolites of pollen. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172849.	2.6	31
78	Is nonâ€host pollen suitable for generalist bumblebees?. Insect Science, 2018, 25, 259-272.	3.0	43
79	Fineâ€tuning the â€˜plant domesticationâ€reduced defenseâ€™ hypothesis: specialist vs generalist herbivores. New Phytologist, 2018, 217, 355-366.	7.3	79
80	Latitudinal variation in plant chemical defences drives latitudinal patterns of leaf herbivory. Ecography, 2018, 41, 1124-1134.	4.5	84
81	Improved separation by at-column dilution in preparative hydrophilic interaction chromatography. Journal of Chromatography A, 2018, 1532, 136-143.	3.7	3
82	Pleiotropic effect of the Flowering Locus C on plant resistance and defence against insect herbivores. Journal of Ecology, 2018, 106, 1244-1255.	4.0	11
83	Adsorbing vs. Nonadsorbing Tracers for Assessing Pesticide Transport in Arable Soils. Vadose Zone Journal, 2018, 17, 1-18.	2.2	11
84	Differential Impact of Herbivores from Three Feeding Guilds on Systemic Secondary Metabolite Induction, Phytohormone Levels and Plant-Mediated Herbivore Interactions. Journal of Chemical Ecology, 2018, 44, 1178-1189.	1.8	34
85	Three-quarters of World's Honey Contain Neonicotinoids. Chimia, 2018, 72, 254.	0.6	0
86	Interspecific variation in leaf functional and defensive traits in oak species and its underlying climatic drivers. PLoS ONE, 2018, 13, e0202548.	2.5	33
87	Root JA Induction Modifies Glucosinolate Profiles and Increases Subsequent Aboveground Resistance to Herbivore Attack in Cardamine hirsuta. Frontiers in Plant Science, 2018, 9, 1230.	3.6	13
88	Mycorrhizal fungi enhance nutrient uptake but disarm defences in plant roots, promoting plant-parasitic nematode populations. Soil Biology and Biochemistry, 2018, 126, 123-132.	8.8	58
89	Plant physical and chemical defence variation along elevation gradients: a functional trait-based approach. Oecologia, 2018, 187, 561-571.	2.0	35
90	Fagopyrum esculentum Alters Its Root Exudation after Amaranthus retroflexus Recognition and Suppresses Weed Growth. Frontiers in Plant Science, 2018, 9, 50.	3.6	31

#	Article	IF	Citations
91	Development and Validation of an Ultra-Sensitive UHPLCâ€“MS/MS Method for Neonicotinoid Analysis in Milk. Journal of Agricultural and Food Chemistry, 2018, 66, 8639-8646.	5.2	49
92	Tricarboxylates Induce Defense Priming Against Bacteria in Arabidopsis thaliana. Frontiers in Plant Science, 2018, 9, 1221.	3.6	45
93	Integration of non-targeted metabolomics and automated determination of elemental compositions for comprehensive alkaloid profiling in plants. Phytochemistry, 2018, 154, 1-9.	2.9	10
94	Reproductive effort and oxidative stress: effects of offspring sex and number on the physiological state of a longâ€lived bird. Functional Ecology, 2017, 31, 1201-1209.	3.6	18
95	Alternative reproductive tactics, sperm mobility and oxidative stress in Carollia perspicillata (Sebaâ€™s) Tj ETQq1 1 0.784314 rgBT /Ove	1.4	20
96	A worldwide survey of neonicotinoids in honey. Science, 2017, 358, 109-111.	12.6	357
97	Reputation management promotes strategic adjustment of service quality in cleaner wrasse. Scientific Reports, 2017, 7, 8425.	3.3	27
98	Sensitive and selective quantification of free and total malondialdehyde in plasma using UHPLC-HRMS. Journal of Lipid Research, 2017, 58, 1924-1931.	4.2	23
99	Interactive effects of plant neighbourhood and ontogeny on insect herbivory and plant defensive traits. Scientific Reports, 2017, 7, 4047.	3.3	36
100	Environmental stress linked to consumption of maternally derived carotenoids in brown trout embryos (Salmo trutta). Ecology and Evolution, 2017, 7, 5082-5093.	1.9	14
101	The accumulation of Î²-aminobutyric acid is controlled by the plantâ€™s immune system. Planta, 2017, 246, 791-796.	3.2	19
102	The priming molecule Î²â€aminobutyric acid is naturally present in plants and is induced by stress. New Phytologist, 2017, 213, 552-559.	7.3	124
103	Evolution of plant defences along an invasion chronosequence: defence is lost due to enemy releaseÂâ€“ but not forever. Journal of Ecology, 2017, 105, 255-264.	4.0	48
104	Essential role for phytol kinase and tocopherol in tolerance to combined light and temperature stress in tomato. Journal of Experimental Botany, 2017, 68, 5845-5856.	4.8	74
105	Antioxidant allocation modulates sperm quality across changing social environments. PLoS ONE, 2017, 12, e0176385.	2.5	20
106	Leaves play a central role in the adaptation of nitrogen and sulfur metabolism to ammonium nutrition in oilseed rape (Brassica napus). BMC Plant Biology, 2017, 17, 157.	3.6	30
107	Adsorbing vs. Nonadsorbing Tracers for Assessing Pesticide Transport in Arable Soils. Vadose Zone Journal, 2017, .	2.2	1
108	Global contamination of honey by insecticides. , 2017, 03, .		0

#	Article	IF	Citations
109	Badge Size Reflects Sperm Oxidative Status within Social Groups in the House Sparrow Passer domesticus. Frontiers in Ecology and Evolution, 2016, 4, .	2.2	9
110	Lipid Antioxidant and Galactolipid Remodeling under Temperature Stress in Tomato Plants. Frontiers in Plant Science, 2016, 7, 167.	3.6	82
111	Identification of Plastoglobules as a Site of Carotenoid Cleavage. Frontiers in Plant Science, 2016, 7, 1855.	3.6	38
112	Phosphate Deficiency Induces the Jasmonate Pathway and Enhances Resistance to Insect Herbivory. Plant Physiology, 2016, 171, 632-644.	4.8	138
113	Biotic and abiotic factors associated with altitudinal variation in plant traits and herbivory in a dominant oak species. American Journal of Botany, 2016, 103, 2070-2078.	1.7	63
114	Canopy gaps promote selective stem-cutting by small mammals of two dominant tree species in an African lowland forest: the importance of seedling chemistry. Journal of Tropical Ecology, 2016, 32, 1-21.	1.1	6
115	Membranes as Structural Antioxidants. Journal of Biological Chemistry, 2016, 291, 13005-13013.	3.4	50
116	Highly localized and persistent induction of Bx1â€dependent herbivore resistance factors in maize. Plant Journal, 2016, 88, 976-991.	5.7	76
117	Control of sexuality by the sk1 -encoded UDP-glycosyltransferase of maize. Science Advances, 2016, 2, e1600991.	10.3	37
118	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. Plant Cell, 2016, 28, tpc.00065.2016.	6.6	87
119	Pyrrolizidine Alkaloids from Echium vulgare in Honey Originate Primarily from Floral Nectar. Journal of Agricultural and Food Chemistry, 2016, 64, 5267-5273.	5.2	54
120	Cascading effects of earlyâ€season herbivory on lateâ€season herbivores and their parasitoids. Ecology, 2016, 97, 1283-1297.	3.2	34
121	Validation of the Mass-Extraction-Window for Quantitative Methods Using Liquid Chromatography High Resolution Mass Spectrometry. Analytical Chemistry, 2016, 88, 3264-3271.	6.5	46
122	Down-regulation of tomatoPHYTOL KINASEstrongly impairs tocopherol biosynthesis and affects prenyllipid metabolism in an organ-specific manner. Journal of Experimental Botany, 2016, 67, 919-934.	4.8	39
123	Metabolomics in plantâ€“herbivore interactions: challenges and applications. Entomologia Experimentalis Et Applicata, 2015, 157, 18-29.	1.4	41
124	TheArabidopsisPep-PEPR system is induced by herbivore feeding and contributes to JA-mediated plant defence against herbivory. Journal of Experimental Botany, 2015, 66, 5327-5336.	4.8	82
125	The wheat resistance gene Lr34 results in the constitutive induction of multiple defense pathways in transgenic barley. Plant Journal, 2015, 84, 202-215.	5.7	45
126	Withinâ€plant distribution of 1,4â€benzoxazinâ€3â€ones contributes to herbivore niche differentiation in maize. Plant, Cell and Environment, 2015, 38, 1081-1093.	5.7	55

#	Article	IF	Citations
127	Trade-off between constitutive and inducible resistance against herbivores is only partially explained by gene expression and glucosinolate production. Journal of Experimental Botany, 2015, 66, 2527-2534.	4.8	42
128	Intra- and interspecific social challenges modulate the levels of an androgen precursor in a seasonally territorial tropical damselfish. Hormones and Behavior, 2015, 71, 75-82.	2.1	4
129	Specificity of induced defenses, growth, and reproduction in lima bean (Phaseolus lunatus) in response to multispecies herbivory. American Journal of Botany, 2015, 102, 1300-1308.	1.7	33
130	No scope for social modulation of steroid levels in a yearâ€round territorial damselfish. Journal of Experimental Zoology, 2015, 323, 80-88.	1.2	3
131	Corticosterone: effects on feather quality and deposition into feathers. Methods in Ecology and Evolution, 2015, 6, 237-246.	5.2	101
132	Effects of Hybridization and Evolutionary Constraints on Secondary Metabolites: The Genetic Architecture of Phenylpropanoids in European Populus Species. PLoS ONE, 2015, 10, e0128200.	2.5	25
133	Maize Domestication and Anti-Herbivore Defences: Leaf-Specific Dynamics during Early Ontogeny of Maize and Its Wild Ancestors. PLoS ONE, 2015, 10, e0135722.	2.5	41
134	Role of plastoglobules in metabolite repair in the tocopherol redox cycle. Frontiers in Plant Science, 2014, 5, 298.	3.6	37
135	Reglucosylation of the Benzoxazinoid DIMBOA with Inversion of Stereochemical Configuration is a Detoxification Strategy in Lepidopteran Herbivores. Angewandte Chemie - International Edition, 2014, 53, 11320-11324.	13.8	87
136	Quinine and artesunate inhibit feeding in the <scp>A</scp>frican malaria mosquito Anopheles gambiae: the role of gustatory organs within the mouthparts. Physiological Entomology, 2014, 39, 172-182.	1.5	18
137	Fertilization with beneficial microorganisms decreases tomato defenses against insect pests. Agronomy for Sustainable Development, 2014, 34, 649-656.	5.3	54
138	3-Î²-d-Glucopyranosyl-6-methoxy-2-benzoxazolinone (MBOA-N-Glc) is an insect detoxification product of maize 1,4-benzoxazin-3-ones. Phytochemistry, 2014, 102, 97-105.	2.9	77
139	Seedling resistance, tolerance and escape from herbivores: insights from coâ€dominant canopy tree species in a resourceâ€poor <scp>A</scp>frican rain forest. Functional Ecology, 2014, 28, 1426-1439.	3.6	13
140	<scp>ABC</scp>1<scp>K</scp>1/<scp>PGR</scp>6 kinase: a regulatory link between photosynthetic activity and chloroplast metabolism. Plant Journal, 2014, 77, 269-283.	5.7	54
141	Variation in Cyanogenic Glycosides Across Populations of Wild Lima Beans (Phaseolus lunatus) Has No Apparent Effect on Bruchid Beetle Performance. Journal of Chemical Ecology, 2014, 40, 468-475.	1.8	32
142	Inhibitory Potential of Naphthoquinones Leached from Leaves and Exuded from Roots of the Invasive Plant Impatiens glandulifera. Journal of Chemical Ecology, 2014, 40, 371-378.	1.8	51
143	Î²-Aminobutyric Acid (BABA)-Induced Resistance in Arabidopsis thaliana: Link with Iron Homeostasis. Molecular Plant-Microbe Interactions, 2014, 27, 1226-1240.	2.6	38
144	Root inoculation with Pseudomonas putida KT2440 induces transcriptional and metabolic changes and systemic resistance in maize plants. Frontiers in Plant Science, 2014, 5, 719.	3.6	99

#	Article	IF	Citations
145	Prenylquinone Profiling in Whole Leaves and Chloroplast Subfractions. Methods in Molecular Biology, 2014, 1153, 213-226.	0.9	8
146	Hormone Profiling. Methods in Molecular Biology, 2014, 1062, 597-608.	0.9	56
147	Composition of alkaloids in different box tree varieties and their uptake by the box tree moth Cydalima perspectalis. Chemoecology, 2013, 23, 203-212.	1.1	29
148	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
149	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
150	Induced resistance in maize is based on organâ€specific defence responses. Plant Journal, 2013, 74, 213-225.	5.7	124
151	A Non-targeted Approach for Extended Liquid Chromatography-Mass Spectrometry Profiling of Free and Esterified Jasmonates After Wounding. Methods in Molecular Biology, 2013, 1011, 123-134.	0.9	17
152	Ultra-high pressure liquid chromatographyâ€“mass spectrometry for plant metabolomics: A systematic comparison of high-resolution quadrupole-time-of-flight and single stage Orbitrap mass spectrometers. Journal of Chromatography A, 2013, 1292, 151-159.	3.7	88
153	A Chloroplast ABC1-like Kinase Regulates Vitamin E Metabolism in Arabidopsis Â Â Â. Plant Physiology, 2013, 162, 652-662.	4.8	72
154	Metabolomics of cereals under biotic stress: current knowledge and techniques. Frontiers in Plant Science, 2013, 4, 82.	3.6	126
155	Natural Variation in Maize Aphid Resistance Is Associated with 2,4-Dihydroxy-7-Methoxy-1,4-Benzoxazin-3-One Glucoside Methyltransferase Activity Â. Plant Cell, 2013, 25, 2341-2355.	6.6	251
156	ArabidopsisBasic Helix-Loop-Helix Transcription Factors MYC2, MYC3, and MYC4 Regulate Glucosinolate Biosynthesis, Insect Performance, and Feeding Behavior Â. Plant Cell, 2013, 25, 3117-3132.	6.6	453
157	Does Aconitum septentrionale chemically protect floral rewards to the advantage of specialist bumblebees?. Ecological Entomology, 2013, 38, 400-407.	2.2	47
158	Strategies in Biomarker Discovery. Peak Annotation by MS and Targeted LC-MS Micro-Fractionation for De Novo Structure Identification by Micro-NMR. Methods in Molecular Biology, 2013, 1055, 267-289.	0.9	5
159	Effects of interspecific recombination on functional traits in trees revealed by metabolomics and genotyping-by-resequencing. Plant Ecology and Diversity, 2012, 5, 457-471.	2.4	10
160	Rapid Profiling of Intact Glucosinolates in Arabidopsis Leaves by UHPLCâ€QTOFMS Using a Charged Surface Hybrid Column. Phytochemical Analysis, 2012, 23, 520-528.	2.4	71
161	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
162	A specialist root herbivore exploits defensive metabolites to locate nutritious tissues. Ecology Letters, 2012, 15, 55-64.	6.4	146

#	Article	IF	Citations
163	Induction and detoxification of maize 1,4â€benzoxazinâ€3â€ones by insect herbivores. Plant Journal, 2011, 68, 901-911.	5.7	209
164	A novel method for prenylquinone profiling in plant tissues by ultra-high pressure liquid chromatography-mass spectrometry. Plant Methods, 2011, 7, 23.	4.3	43
165	Chloroplast lipid droplet type II NAD(P)H quinone oxidoreductase is essential for prenylquinone metabolism and vitamin K ₁ accumulation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14354-14359.	7.1	80
166	Benzoxazinoid Metabolites Regulate Innate Immunity against Aphids and Fungi in Maize Â Â. Plant Physiology, 2011, 157, 317-327.	4.8	295
167	Family Business: Multiple Members of Major Phytohormone Classes Orchestrate Plant Stress Responses. Chemistry - A European Journal, 2010, 16, 10280-10289.	3.3	35
168	Mass spectrometryâ€based metabolomics oriented by correlation analysis for woundâ€induced molecule discovery: identification of a novel jasmonate glucoside. Phytochemical Analysis, 2010, 21, 95-101.	2.4	35
169	Isomeric Tropane Alkaloids from the Aerial Parts of Schizanthus tricolor. Journal of Natural Products, 2010, 73, 844-847.	3.0	10
170	Potential of UHPLC for crude plant extract analysis: profiling, dereplication and metabolomics. Planta Medica, 2010, 76, .	1.3	1
171	MS-based Plant Metabolomic Approaches for Biomarker Discovery. Natural Product Communications, 2009, 4, 1934578X0900401.	0.5	25
172	Velocity Estimates for Signal Propagation Leading to Systemic Jasmonic Acid Accumulation in Wounded Arabidopsis. Journal of Biological Chemistry, 2009, 284, 34506-34513.	3.4	213
173	Some solutions to obtain very efficient separations in isocratic and gradient modes using small particles size and ultra-high pressure. Journal of Chromatography A, 2009, 1216, 3232-3243.	3.7	64
174	Metabolite profiling of plant extracts by ultra-high-pressure liquid chromatography at elevated temperature coupled to time-of-flight mass spectrometry. Journal of Chromatography A, 2009, 1216, 5660-5668.	3.7	61
175	Differential Analysis of Mycoalexins in Confrontation Zones of Grapevine Fungal Pathogens by Ultrahigh Pressure Liquid Chromatography/Time-of-Flight Mass Spectrometry and Capillary Nuclear Magnetic Resonance. Journal of Agricultural and Food Chemistry, 2009, 57, 1127-1134.	5.2	54
176	Metabolite profiling of plant extracts by ultra-high pressure liquid chromatography at elevated temperature coupled to time-of-flight mass spectrometry. Planta Medica, 2009, 75, .	1.3	0
177	Competitive interactions between fungi: a new source of original bioactive molecules. Planta Medica, 2009, 75, .	1.3	0
178	MS-based plant metabolomic approaches for biomarker discovery. Natural Product Communications, 2009, 4, 1417-30.	0.5	31
179	UPLCâ€“TOF-MS for plant metabolomics: A sequential approach for wound marker analysis in Arabidopsis thaliana. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 871, 261-270.	2.3	96
180	Highâ€resolution profiling of oxylipinâ€containing galactolipids in Arabidopsis extracts by ultraâ€performance liquid chromatography/timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2008, 22, 3154-3160.	1.5	34

#	Article	IF	Citations
181	Optimized liquid chromatographyâ€“mass spectrometry approach for the isolation of minor stress biomarkers in plant extracts and their identification by capillary nuclear magnetic resonance. Journal of Chromatography A, 2008, 1180, 90-98.	3.7	97
182	Spatial and Temporal Dynamics of Jasmonate Synthesis and Accumulation in Arabidopsis in Response to Wounding. Journal of Biological Chemistry, 2008, 283, 16400-16407.	3.4	293
183	Plant Metabolomics â€“ Strategies for Biomarker Detection, Isolation, and Identification. Chimia, 2008, 62, 685.	0.6	0
184	UPLC-TOF-MS for high resolution plant metabolite profiling and metabolomics. Planta Medica, 2008, 74, .	1.3	6
185	Isolation and identification of six tropane alkaloid derivatives from Schizanthus tricolor, a chilean Solanaceae species. Planta Medica, 2008, 74, .	1.3	0
186	Development of a twoâ€step screening ESIâ€TOFâ€MS method for rapid determination of significant stressâ€induced metabolome modifications in plant leaf extracts: The wound response in Arabidopsis thaliana as a case study. Journal of Separation Science, 2007, 30, 2268-2278.	2.5	46
187	Topâ€down cascading effects of seedâ€feeding beetles and their parasitoids on plants and leaf herbivores. Functional Ecology, 0, , .	3.6	1