

Gaetan Glauser

List of Publications by Year in descending order

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

Version: 2024-02-01

187
papers

8,489
citations

44069

48
h-index

62596

80
g-index

204
all docs

204
docs citations

204
times ranked

9938
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Arabidopsis</i> Basic Helix-Loop-Helix Transcription Factors MYC2, MYC3, and MYC4 Regulate Glucosinolate Biosynthesis, Insect Performance, and Feeding Behavior. <i>Plant Cell</i> , 2013, 25, 3117-3132.	6.6	453
2	A worldwide survey of neonicotinoids in honey. <i>Science</i> , 2017, 358, 109-111.	12.6	357
3	Benzoxazinoid Metabolites Regulate Innate Immunity against Aphids and Fungi in Maize. <i>Plant Physiology</i> , 2011, 157, 317-327.	4.8	295
4	Spatial and Temporal Dynamics of Jasmonate Synthesis and Accumulation in <i>Arabidopsis</i> in Response to Wounding. <i>Journal of Biological Chemistry</i> , 2008, 283, 16400-16407.	3.4	293
5	Natural Variation in Maize Aphid Resistance Is Associated with 2,4-Dihydroxy-7-Methoxy-1,4-Benzoxazin-3-One Glucoside Methyltransferase Activity. <i>Plant Cell</i> , 2013, 25, 2341-2355.	6.6	251
6	Velocity Estimates for Signal Propagation Leading to Systemic Jasmonic Acid Accumulation in Wounded <i>Arabidopsis</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 34506-34513.	3.4	213
7	Induction and detoxification of maize 1,4-benzoxazin-3-ones by insect herbivores. <i>Plant Journal</i> , 2011, 68, 901-911.	5.7	209
8	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
9	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
10	A specialist root herbivore exploits defensive metabolites to locate nutritious tissues. <i>Ecology Letters</i> , 2012, 15, 55-64.	6.4	146
11	Phosphate Deficiency Induces the Jasmonate Pathway and Enhances Resistance to Insect Herbivory. <i>Plant Physiology</i> , 2016, 171, 632-644.	4.8	138
12	Metabolomics of cereals under biotic stress: current knowledge and techniques. <i>Frontiers in Plant Science</i> , 2013, 4, 82.	3.6	126
13	Induced resistance in maize is based on organ-specific defence responses. <i>Plant Journal</i> , 2013, 74, 213-225.	5.7	124
14	The priming molecule γ -aminobutyric acid is naturally present in plants and is induced by stress. <i>New Phytologist</i> , 2017, 213, 552-559.	7.3	124
15	Corticosterone: effects on feather quality and deposition into feathers. <i>Methods in Ecology and Evolution</i> , 2015, 6, 237-246.	5.2	101
16	Root inoculation with <i>Pseudomonas putida</i> KT2440 induces transcriptional and metabolic changes and systemic resistance in maize plants. <i>Frontiers in Plant Science</i> , 2014, 5, 719.	3.6	99
17	Optimized liquid chromatography-mass spectrometry approach for the isolation of minor stress biomarkers in plant extracts and their identification by capillary nuclear magnetic resonance. <i>Journal of Chromatography A</i> , 2008, 1180, 90-98.	3.7	97
18	UPLC-TOF-MS for plant metabolomics: A sequential approach for wound marker analysis in <i>Arabidopsis thaliana</i> . <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 871, 261-270.	2.3	96

#	ARTICLE	IF	CITATIONS
19	Ultra-high pressure liquid chromatography-mass spectrometry for plant metabolomics: A systematic comparison of high-resolution quadrupole-time-of-flight and single stage Orbitrap mass spectrometers. <i>Journal of Chromatography A</i> , 2013, 1292, 151-159.	3.7	88
20	Reglucosylation of the Benzoxazinoid DIMBOA with Inversion of Stereochemical Configuration is a Detoxification Strategy in Lepidopteran Herbivores. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11320-11324.	13.8	87
21	Biosynthesis of 8-O-methylated benzoxazinoid defense compounds in maize. <i>Plant Cell</i> , 2016, 28, tpc.00065.2016.	6.6	87
22	A receptor-like protein mediates plant immune responses to herbivore-associated molecular patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31510-31518.	7.1	86
23	Latitudinal variation in plant chemical defences drives latitudinal patterns of leaf herbivory. <i>Ecography</i> , 2018, 41, 1124-1134.	4.5	84
24	The <i>Arabidopsis</i> Pep-PEPR system is induced by herbivore feeding and contributes to JA-mediated plant defence against herbivory. <i>Journal of Experimental Botany</i> , 2015, 66, 5327-5336.	4.8	82
25	Lipid Antioxidant and Galactolipid Remodeling under Temperature Stress in Tomato Plants. <i>Frontiers in Plant Science</i> , 2016, 7, 167.	3.6	82
26	Molecular Dissection of Early Defense Signaling Underlying Volatile-Mediated Defense Regulation and Herbivore Resistance in Rice. <i>Plant Cell</i> , 2019, 31, 687-698.	6.6	82
27	Chloroplast lipid droplet type II NAD(P)H quinone oxidoreductase is essential for prenylquinone metabolism and vitamin K ₁ accumulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14354-14359.	7.1	80
28	Fine-tuning the "plant domestication-reduced defense" hypothesis: specialist vs generalist herbivores. <i>New Phytologist</i> , 2018, 217, 355-366.	7.3	79
29	A survey and risk assessment of neonicotinoids in water, soil and sediments of Belize. <i>Environmental Pollution</i> , 2019, 249, 949-958.	7.5	79
30	3- ¹² -d-Glucopyranosyl-6-methoxy-2-benzoxazolinone (MBOA-N-Glc) is an insect detoxification product of maize 1,4-benzoxazin-3-ones. <i>Phytochemistry</i> , 2014, 102, 97-105.	2.9	77
31	Highly localized and persistent induction of Bx1-dependent herbivore resistance factors in maize. <i>Plant Journal</i> , 2016, 88, 976-991.	5.7	76
32	Essential role for phyto kinase and tocopherol in tolerance to combined light and temperature stress in tomato. <i>Journal of Experimental Botany</i> , 2017, 68, 5845-5856.	4.8	74
33	A Chloroplast ABC1-like Kinase Regulates Vitamin E Metabolism in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 162, 652-662.	4.8	72
34	Rapid Profiling of Intact Glucosinolates in <i>Arabidopsis</i> Leaves by UHPLC-QTOFMS Using a Charged Surface Hybrid Column. <i>Phytochemical Analysis</i> , 2012, 23, 520-528.	2.4	71
35	A nationwide survey of neonicotinoid insecticides in agricultural land with implications for agri-environment schemes. <i>Journal of Applied Ecology</i> , 2019, 56, 1502-1514.	4.0	71
36	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

#	ARTICLE	IF	CITATIONS
37	Some solutions to obtain very efficient separations in isocratic and gradient modes using small particles size and ultra-high pressure. <i>Journal of Chromatography A</i> , 2009, 1216, 3232-3243.	3.7	64
38	Biotic and abiotic factors associated with altitudinal variation in plant traits and herbivory in a dominant oak species. <i>American Journal of Botany</i> , 2016, 103, 2070-2078.	1.7	63
39	A membrane-bound ankyrin repeat protein confers race-specific leaf rust disease resistance in wheat. <i>Nature Communications</i> , 2021, 12, 956.	12.8	63
40	Spatial and evolutionary predictability of phytochemical diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	63
41	Metabolite profiling of plant extracts by ultra-high-pressure liquid chromatography at elevated temperature coupled to time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2009, 1216, 5660-5668.	3.7	61
42	Residues of neonicotinoids in soil, water and people's hair: A case study from three agricultural regions of the Philippines. <i>Science of the Total Environment</i> , 2021, 757, 143822.	8.0	60
43	Indole primes defence signalling and increases herbivore resistance in tea plants. <i>Plant, Cell and Environment</i> , 2021, 44, 1165-1177.	5.7	59
44	Mycorrhizal fungi enhance nutrient uptake but disarm defences in plant roots, promoting plant-parasitic nematode populations. <i>Soil Biology and Biochemistry</i> , 2018, 126, 123-132.	8.8	58
45	Hormone Profiling. <i>Methods in Molecular Biology</i> , 2014, 1062, 597-608.	0.9	56
46	Within-plant distribution of 1,4-benzoxazinones contributes to herbivore niche differentiation in maize. <i>Plant, Cell and Environment</i> , 2015, 38, 1081-1093.	5.7	55
47	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. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 1127-1134.	5.2	54
48	Fertilization with beneficial microorganisms decreases tomato defenses against insect pests. <i>Agronomy for Sustainable Development</i> , 2014, 34, 649-656.	5.3	54
49	<sc>ABC</sc>1<sc>K</sc>1<sc>PGR</sc>6 kinase: a regulatory link between photosynthetic activity and chloroplast metabolism. <i>Plant Journal</i> , 2014, 77, 269-283.	5.7	54
50	Pyrrrolizidine Alkaloids from <i>Echium vulgare</i> in Honey Originate Primarily from Floral Nectar. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 5267-5273.	5.2	54
51	A large-scale survey of house sparrows feathers reveals ubiquitous presence of neonicotinoids in farmlands. <i>Science of the Total Environment</i> , 2019, 660, 1091-1097.	8.0	52
52	Inhibitory Potential of Naphthoquinones Leached from Leaves and Exuded from Roots of the Invasive Plant <i>Impatiens glandulifera</i> . <i>Journal of Chemical Ecology</i> , 2014, 40, 371-378.	1.8	51
53	Novel trophic interactions under climate change promote alpine plant coexistence. <i>Science</i> , 2020, 370, 1469-1473.	12.6	51
54	Membranes as Structural Antioxidants. <i>Journal of Biological Chemistry</i> , 2016, 291, 13005-13013.	3.4	50

#	ARTICLE	IF	CITATIONS
55	Development and Validation of an Ultra-Sensitive UHPLC-MS/MS Method for Neonicotinoid Analysis in Milk. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 8639-8646.	5.2	49
56	Evolution of plant defences along an invasion chronosequence: defence is lost due to enemy release but not forever. <i>Journal of Ecology</i> , 2017, 105, 255-264.	4.0	48
57	Does <i>Aconitum septentrionale</i> chemically protect floral rewards to the advantage of specialist bumblebees?. <i>Ecological Entomology</i> , 2013, 38, 400-407.	2.2	47
58	Development of a two-step screening ESI-TOF-MS method for rapid determination of significant stress-induced metabolome modifications in plant leaf extracts: The wound response in <i>Arabidopsis thaliana</i> as a case study. <i>Journal of Separation Science</i> , 2007, 30, 2268-2278.	2.5	46
59	Validation of the Mass-Extraction-Window for Quantitative Methods Using Liquid Chromatography High Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 3264-3271.	6.5	46
60	The Arabidopsis Lectin Receptor Kinase LecRK-I.8 Is Involved in Insect Egg Perception. <i>Frontiers in Plant Science</i> , 2019, 10, 623.	3.6	46
61	The wheat resistance gene <i>Lr34</i> results in the constitutive induction of multiple defense pathways in transgenic barley. <i>Plant Journal</i> , 2015, 84, 202-215.	5.7	45
62	Tricarboxylates Induce Defense Priming Against Bacteria in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1221.	3.6	45
63	Influence of surface water-groundwater interactions on the spatial distribution of pesticide metabolites in groundwater. <i>Science of the Total Environment</i> , 2020, 733, 139109.	8.0	44
64	A novel method for prenylquinone profiling in plant tissues by ultra-high pressure liquid chromatography-mass spectrometry. <i>Plant Methods</i> , 2011, 7, 23.	4.3	43
65	Is non-host pollen suitable for generalist bumblebees?. <i>Insect Science</i> , 2018, 25, 259-272.	3.0	43
66	Trade-off between constitutive and inducible resistance against herbivores is only partially explained by gene expression and glucosinolate production. <i>Journal of Experimental Botany</i> , 2015, 66, 2527-2534.	4.8	42
67	Solid-phase extraction method for stable isotope analysis of pesticides from large volume environmental water samples. <i>Analyst</i> , 2019, 144, 2898-2908.	3.5	42
68	Eight key rules for successful data-dependent acquisition in mass spectrometry-based metabolomics. <i>Mass Spectrometry Reviews</i> , 2023, 42, 131-143.	5.4	42
69	Metabolomics in plant-herbivore interactions: challenges and applications. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 157, 18-29.	1.4	41
70	A multifaceted analysis reveals two distinct phases of chloroplast biogenesis during de-etiolation in <i>Arabidopsis</i> . <i>ELife</i> , 2021, 10, .	6.0	41
71	Maize Domestication and Anti-Herbivore Defences: Leaf-Specific Dynamics during Early Ontogeny of Maize and Its Wild Ancestors. <i>PLoS ONE</i> , 2015, 10, e0135722.	2.5	41
72	Down-regulation of tomato <i>PHYTOL KINASE</i> strongly impairs tocopherol biosynthesis and affects prenyllipid metabolism in an organ-specific manner. <i>Journal of Experimental Botany</i> , 2016, 67, 919-934.	4.8	39

#	ARTICLE	IF	CITATIONS
73	Î²-Aminobutyric Acid (BABA)-Induced Resistance in <i>Arabidopsis thaliana</i> : Link with Iron Homeostasis. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 1226-1240.	2.6	38
74	Identification of Plastoglobules as a Site of Carotenoid Cleavage. <i>Frontiers in Plant Science</i> , 2016, 7, 1855.	3.6	38
75	Role of plastoglobules in metabolite repair in the tocopherol redox cycle. <i>Frontiers in Plant Science</i> , 2014, 5, 298.	3.6	37
76	Control of sexuality by the <i>sk1</i> -encoded UDP-glycosyltransferase of maize. <i>Science Advances</i> , 2016, 2, e1600991.	10.3	37
77	Interactive effects of plant neighbourhood and ontogeny on insect herbivory and plant defensive traits. <i>Scientific Reports</i> , 2017, 7, 4047.	3.3	36
78	Family Business: Multiple Members of Major Phytohormone Classes Orchestrate Plant Stress Responses. <i>Chemistry - A European Journal</i> , 2010, 16, 10280-10289.	3.3	35
79	Mass spectrometry-based metabolomics oriented by correlation analysis for wound-induced molecule discovery: identification of a novel jasmonate glucoside. <i>Phytochemical Analysis</i> , 2010, 21, 95-101.	2.4	35
80	Plant physical and chemical defence variation along elevation gradients: a functional trait-based approach. <i>Oecologia</i> , 2018, 187, 561-571.	2.0	35
81	High-resolution profiling of oxylipin-containing galactolipids in <i>Arabidopsis</i> extracts by ultra-performance liquid chromatography/time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3154-3160.	1.5	34
82	Cascading effects of early-season herbivory on late-season herbivores and their parasitoids. <i>Ecology</i> , 2016, 97, 1283-1297.	3.2	34
83	Differential Impact of Herbivores from Three Feeding Guilds on Systemic Secondary Metabolite Induction, Phytohormone Levels and Plant-Mediated Herbivore Interactions. <i>Journal of Chemical Ecology</i> , 2018, 44, 1178-1189.	1.8	34
84	Specificity of induced defenses, growth, and reproduction in lima bean (<i>Phaseolus lunatus</i>) in response to multispecies herbivory. <i>American Journal of Botany</i> , 2015, 102, 1300-1308.	1.7	33
85	Interspecific variation in leaf functional and defensive traits in oak species and its underlying climatic drivers. <i>PLoS ONE</i> , 2018, 13, e0202548.	2.5	33
86	Variation in Cyanogenic Glycosides Across Populations of Wild Lima Beans (<i>Phaseolus lunatus</i>) Has No Apparent Effect on Bruchid Beetle Performance. <i>Journal of Chemical Ecology</i> , 2014, 40, 468-475.	1.8	32
87	Variable effects on growth and defense traits for plant ecotypic differentiation and phenotypic plasticity along elevation gradients. <i>Ecology and Evolution</i> , 2019, 9, 3740-3755.	1.9	32
88	Nursing protects honeybee larvae from secondary metabolites of pollen. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172849.	2.6	31
89	<i>Fagopyrum esculentum</i> Alters Its Root Exudation after <i>Amaranthus retroflexus</i> Recognition and Suppresses Weed Growth. <i>Frontiers in Plant Science</i> , 2018, 9, 50.	3.6	31
90	MS-based plant metabolomic approaches for biomarker discovery. <i>Natural Product Communications</i> , 2009, 4, 1417-30.	0.5	31

#	ARTICLE	IF	CITATIONS
91	Leaves play a central role in the adaptation of nitrogen and sulfur metabolism to ammonium nutrition in oilseed rape (<i>Brassica napus</i>). <i>BMC Plant Biology</i> , 2017, 17, 157.	3.6	30
92	Composition of alkaloids in different box tree varieties and their uptake by the box tree moth <i>Cydalima perspectalis</i> . <i>Chemoecology</i> , 2013, 23, 203-212.	1.1	29
93	Phosphate Suppression of Arbuscular Mycorrhizal Symbiosis Involves Gibberellic Acid Signaling. <i>Plant and Cell Physiology</i> , 2021, 62, 959-970.	3.1	29
94	Early-life manipulation of cortisol and its receptor alters stress axis programming and social competence. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180119.	4.0	28
95	Ultra-trace level determination of neonicotinoids in honey as a tool for assessing environmental contamination. <i>Environmental Pollution</i> , 2019, 247, 964-972.	7.5	28
96	Long-term effects of neonicotinoid insecticides on ants. <i>Communications Biology</i> , 2020, 3, 335.	4.4	28
97	Reputation management promotes strategic adjustment of service quality in cleaner wrasse. <i>Scientific Reports</i> , 2017, 7, 8425.	3.3	27
98	A sublethal dose of the neonicotinoid insecticide acetamiprid reduces sperm density in a songbird.. <i>Environmental Research</i> , 2019, 177, 108589.	7.5	26
99	MS-based Plant Metabolomic Approaches for Biomarker Discovery. <i>Natural Product Communications</i> , 2009, 4, 1934578X0900401.	0.5	25
100	Standard methods for pollen research. <i>Journal of Apicultural Research</i> , 2021, 60, 1-109.	1.5	25
101	Effects of Hybridization and Evolutionary Constraints on Secondary Metabolites: The Genetic Architecture of Phenylpropanoids in European <i>Populus</i> Species. <i>PLoS ONE</i> , 2015, 10, e0128200.	2.5	25
102	Growth-competition-herbivore resistance trade-offs and the responses of alpine plant communities to climate change. <i>Functional Ecology</i> , 2018, 32, 1693-1703.	3.6	24
103	Plastoquinone homeostasis by <i>Arabidopsis</i> proton gradient regulation 6 is essential for photosynthetic efficiency. <i>Communications Biology</i> , 2019, 2, 220.	4.4	24
104	Sensitive and selective quantification of free and total malondialdehyde in plasma using UHPLC-HRMS. <i>Journal of Lipid Research</i> , 2017, 58, 1924-1931.	4.2	23
105	Plant physical and chemical traits associated with herbivory in situ and under a warming treatment. <i>Journal of Ecology</i> , 2020, 108, 733-749.	4.0	23
106	New Insights on <i>Arabidopsis thaliana</i> Root Adaption to Ammonium Nutrition by the Use of a Quantitative Proteomic Approach. <i>International Journal of Molecular Sciences</i> , 2019, 20, 814.	4.1	22
107	Jasmonate Precursor Biosynthetic Enzymes LOX3 and LOX4 Control Wound-Response Growth Restriction. <i>Plant Physiology</i> , 2020, 184, 1172-1180.	4.8	21
108	Alternative reproductive tactics, sperm mobility and oxidative stress in <i>Carollia perspicillata</i> (Seba) (Diptera: Tephritidae). <i>Journal of Insect Behavior</i> , 2020, 67, 14-20.	1.4	20

#	ARTICLE	IF	CITATIONS
109	Antioxidant allocation modulates sperm quality across changing social environments. PLoS ONE, 2017, 12, e0176385.	2.5	20
110	Entomopathogenic nematodes from Mexico that can overcome the resistance mechanisms of the western corn rootworm. Scientific Reports, 2020, 10, 8257.	3.3	20
111	Metabolomics by UHPLC-Q-TOF Reveals Host Tree-Dependent Phytochemical Variation in <i>Viscum album</i> L. Plants, 2021, 10, 1726.	3.5	20
112	The accumulation of β -aminobutyric acid is controlled by the plant's immune system. Planta, 2017, 246, 791-796.	3.2	19
113	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
114	Quinine and artesunate inhibit feeding in the African malaria mosquito <i>Anopheles gambiae</i> : the role of gustatory organs within the mouthparts. Physiological Entomology, 2014, 39, 172-182.	1.5	18
115	Reproductive effort and oxidative stress: effects of offspring sex and number on the physiological state of a long-lived bird. Functional Ecology, 2017, 31, 1201-1209.	3.6	18
116	Reduced access to cleaner fish negatively impacts the physiological state of two resident reef fishes. Marine Biology, 2020, 167, 1.	1.5	18
117	VAPYRIN attenuates defence by repressing PR gene induction and localized lignin accumulation during arbuscular mycorrhizal symbiosis of <i>Petunia hybrida</i> . New Phytologist, 2021, 229, 3481-3496.	7.3	18
118	Contamination by neonicotinoid insecticides in barn owls (<i>Tyto alba</i>) and Alpine swifts (<i>Tachymarptis</i>)	8.9	18
119	Internal calibration as an emerging approach for endogenous analyte quantification: Application to steroids. Talanta, 2022, 240, 123149.	5.5	18
120	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
121	FRS7 and FRS12 recruit NINJA to regulate expression of glucosinolate biosynthesis genes. New Phytologist, 2020, 227, 1124-1137.	7.3	17
122	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
123	Multiple neonicotinoids in children's cerebro-spinal fluid, plasma, and urine. Environmental Health, 2022, 21, 10.	4.0	16
124	Photosynthetic Light Harvesting and Thylakoid Organization in a CRISPR/Cas9 <i>Arabidopsis thaliana</i> LHCB1 Knockout Mutant. Frontiers in Plant Science, 2022, 13, 833032.	3.6	16
125	Accumulation patterns of endogenous β -aminobutyric acid during plant development and defence in <i>Arabidopsis thaliana</i> . Plant Biology, 2019, 21, 318-325.	3.8	15
126	Effects of early-season insect herbivory on subsequent pathogen infection and ant abundance on wild cotton (<i>Gossypium hirsutum</i>). Journal of Ecology, 2019, 107, 1518-1529.	4.0	15

#	ARTICLE	IF	CITATIONS
127	Environmental stress linked to consumption of maternally derived carotenoids in brown trout embryos (<i>Salmo trutta</i>). <i>Ecology and Evolution</i> , 2017, 7, 5082-5093.	1.9	14
128	Seedling resistance, tolerance and escape from herbivores: insights from co-dominant canopy tree species in a resource-poor African rain forest. <i>Functional Ecology</i> , 2014, 28, 1426-1439.	3.6	13
129	Root JA Induction Modifies Glucosinolate Profiles and Increases Subsequent Aboveground Resistance to Herbivore Attack in <i>Cardamine hirsuta</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1230.	3.6	13
130	To bee or not to bee: The "raison d'être" of toxic secondary compounds in the pollen of Boraginaceae. <i>Functional Ecology</i> , 2020, 34, 1345-1357.	3.6	12
131	Early social experience has life-long effects on baseline but not stress-induced cortisol levels in a cooperatively breeding fish. <i>Hormones and Behavior</i> , 2021, 128, 104910.	2.1	12
132	ACA pumps maintain leaf excitability during herbivore onslaught. <i>Current Biology</i> , 2022, 32, 2517-2528.e6.	3.9	12
133	Pleiotropic effect of the <i>Flowering Locus C</i> on plant resistance and defence against insect herbivores. <i>Journal of Ecology</i> , 2018, 106, 1244-1255.	4.0	11
134	Adsorbing vs. Nonadsorbing Tracers for Assessing Pesticide Transport in Arable Soils. <i>Vadose Zone Journal</i> , 2018, 17, 1-18.	2.2	11
135	Bottom-up control of geographic variation in insect herbivory on wild cotton (<i>Gossypium</i>) Tj ETQq1 1 0.784314.rgBT /Overlock 11	1.7	11
136	Ecological convergence of secondary phytochemicals along elevational gradients. <i>New Phytologist</i> , 2021, 229, 1755-1767.	7.3	11
137	The MIK2/SCOOP Signaling System Contributes to Arabidopsis Resistance Against Herbivory by Modulating Jasmonate and Indole Glucosinolate Biosynthesis. <i>Frontiers in Plant Science</i> , 2022, 13, 852808.	3.6	11
138	Isomeric Tropane Alkaloids from the Aerial Parts of <i>Schizanthus tricolor</i> . <i>Journal of Natural Products</i> , 2010, 73, 844-847.	3.0	10
139	Effects of interspecific recombination on functional traits in trees revealed by metabolomics and genotyping-by-sequencing. <i>Plant Ecology and Diversity</i> , 2012, 5, 457-471.	2.4	10
140	Integration of non-targeted metabolomics and automated determination of elemental compositions for comprehensive alkaloid profiling in plants. <i>Phytochemistry</i> , 2018, 154, 1-9.	2.9	10
141	The effect of community-wide phytochemical diversity on herbivory reverses from low to high elevation. <i>Journal of Ecology</i> , 2022, 110, 46-56.	4.0	10
142	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
143	Altered capsaicin levels in domesticated chili pepper varieties affect the interaction between a generalist herbivore and its ectoparasitoid. <i>Journal of Pest Science</i> , 2022, 95, 735-747.	3.7	10
144	Expression of the wheat disease resistance gene Lr34 in transgenic barley leads to accumulation of abscisic acid at the leaf tip. <i>Plant Physiology and Biochemistry</i> , 2021, 166, 950-957.	5.8	10

#	ARTICLE	IF	CITATIONS
145	Badge Size Reflects Sperm Oxidative Status within Social Groups in the House Sparrow <i>Passer domesticus</i> . <i>Frontiers in Ecology and Evolution</i> , 2016, 4, .	2.2	9
146	Barley isochorismate synthase mutant is phyloquinone-deficient, but has normal basal salicylic acid level. <i>Plant Signaling and Behavior</i> , 2019, 14, 1671122.	2.4	9
147	Oxidative costs of cooperation in cooperatively breeding Damaraland mole-rats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201023.	2.6	9
148	Plant surface metabolites as potent antifungal agents. <i>Plant Physiology and Biochemistry</i> , 2020, 150, 39-48.	5.8	9
149	Insect eggs trigger systemic acquired resistance against a fungal and an oomycete pathogen. <i>New Phytologist</i> , 2021, 232, 2491-2505.	7.3	9
150	Determination of chlorothalonil metabolites in soil and water samples. <i>Journal of Chromatography A</i> , 2021, 1655, 462507.	3.7	9
151	Leafminer attack accelerates the development of soil-dwelling conspecific pupae via plant-mediated changes in belowground volatiles. <i>New Phytologist</i> , 2022, 234, 280-294.	7.3	9
152	Role of cyanogenic glycosides in the seeds of wild lima bean, <i>Phaseolus lunatus</i> : defense, plant nutrition or both?. <i>Planta</i> , 2019, 250, 1281-1292.	3.2	8
153	Physiological acclimation of a grass species occurs during sustained but not repeated drought events. <i>Environmental and Experimental Botany</i> , 2020, 171, 103954.	4.2	8
154	Chemical Basis of Floral Color Signals in Gesneriaceae: The Effect of Alternative Anthocyanin Pathways. <i>Frontiers in Plant Science</i> , 2020, 11, 604389.	3.6	8
155	No impact of neonicotinoids on male solitary bees <i>Osmia cornuta</i> under semi-field conditions. <i>Physiological Entomology</i> , 2021, 46, 105-109.	1.5	8
156	Soil composition and plant genotype determine benzoxazinoid-mediated plant-soil feedbacks in cereals. <i>Plant, Cell and Environment</i> , 2021, 44, 3732-3744.	5.7	8
157	Prenylquinone Profiling in Whole Leaves and Chloroplast Subfractions. <i>Methods in Molecular Biology</i> , 2014, 1153, 213-226.	0.9	8
158	Ascaroside Signaling in the Bacterivorous Nematode <i>Caenorhabditis remanei</i> Encodes the Growth Phase of Its Bacterial Food Source. <i>Organic Letters</i> , 2019, 21, 5832-5837.	4.6	7
159	Growth Temperature Influence on Lipids and Photosynthesis in <i>Lepidium sativum</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 745.	3.6	7
160	Canopy gaps promote selective stem-cutting by small mammals of two dominant tree species in an African lowland forest: the importance of seedling chemistry. <i>Journal of Tropical Ecology</i> , 2016, 32, 1-21.	1.1	6
161	UPLC-TOF-MS for high resolution plant metabolite profiling and metabolomics. <i>Planta Medica</i> , 2008, 74, .	1.3	6
162	Morphological and physiological consequences of a dietary restriction during early life in bats. <i>Behavioral Ecology</i> , 2020, 31, 475-486.	2.2	5

#	ARTICLE	IF	CITATIONS
163	Strategies in Biomarker Discovery. Peak Annotation by MS and Targeted LC-MS Micro-Fractionation for De Novo Structure Identification by Micro-NMR. <i>Methods in Molecular Biology</i> , 2013, 1055, 267-289.	0.9	5
164	Varying impact of neonicotinoid insecticide and acute bee paralysis virus across castes and colonies of black garden ants, <i>Lasius niger</i> (Hymenoptera: Formicidae). <i>Scientific Reports</i> , 2021, 11, 20500.	3.3	5
165	The effect of squash domestication on a belowground tritrophic interaction. <i>Plant-Environment Interactions</i> , 2022, 3, 28-39.	1.5	5
166	Intra- and interspecific social challenges modulate the levels of an androgen precursor in a seasonally territorial tropical damselfish. <i>Hormones and Behavior</i> , 2015, 71, 75-82.	2.1	4
167	Social dominance, but not parasite load, affects sperm quality and sperm redox status in house sparrows. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	4
168	Volatile-mediated defence regulation occurs in maize leaves but not in maize root. <i>Plant, Cell and Environment</i> , 2020, , .	5.7	4
169	The effect of root-associated microbes on plant growth and chemical defence traits across two contrasted elevations. <i>Journal of Ecology</i> , 2021, 109, 38-50.	4.0	4
170	Squash Varieties Domesticated for Different Purposes Differ in Chemical and Physical Defense Against Leaf and Root Herbivores. <i>Frontiers in Agronomy</i> , 2021, 3, .	3.3	4
171	Increases in glucocorticoids are sufficient but not necessary to increase cooperative burrowing in Damaraland mole-rats. <i>Hormones and Behavior</i> , 2021, 135, 105034.	2.1	4
172	Revisiting the trail pheromone components of the red imported fire ant, <i>Solenopsis invicta</i> Buren. <i>Insect Science</i> , 2023, 30, 161-172.	3.0	4
173	No scope for social modulation of steroid levels in a year-round territorial damselfish. <i>Journal of Experimental Zoology</i> , 2015, 323, 80-88.	1.2	3
174	Root herbivore performance suppressed when feeding on a jasmonate-induced pasture grass. <i>Ecological Entomology</i> , 2018, 43, 547-550.	2.2	3
175	Improved separation by at-column dilution in preparative hydrophilic interaction chromatography. <i>Journal of Chromatography A</i> , 2018, 1532, 136-143.	3.7	3
176	Metabolic profiling as a tool for differentiating <i>Viscum album</i> ssp. <i>album</i> plants growing on various host trees. <i>Phytomedicine</i> , 2019, 61, 1-2.	5.3	3
177	Out of scale out of place: Black rhino forage preference across the hierarchical organization of the savanna ecosystem. <i>Conservation Science and Practice</i> , 2020, 2, e191.	2.0	3
178	Experimental manipulation of reproductive tactics in <i>Seba's</i> short-tailed bats: consequences on sperm quality and oxidative status. <i>Environmental Epigenetics</i> , 2019, 65, 609-616.	1.8	2
179	Potential of UHPLC for crude plant extract analysis: profiling, dereplication and metabolomics. <i>Planta Medica</i> , 2010, 76, .	1.3	1
180	Adsorbing vs. Nonadsorbing Tracers for Assessing Pesticide Transport in Arable Soils. <i>Vadose Zone Journal</i> , 2017, .	2.2	1

#	ARTICLE	IF	CITATIONS
181	Top-down cascading effects of seed-feeding beetles and their parasitoids on plants and leaf herbivores. <i>Functional Ecology</i> , 0, , .	3.6	1
182	Plant Metabolomics – Strategies for Biomarker Detection, Isolation, and Identification. <i>Chimia</i> , 2008, 62, 685.	0.6	0
183	Three-quarters of World's Honey Contain Neonicotinoids. <i>Chimia</i> , 2018, 72, 254.	0.6	0
184	Isolation and identification of six tropane alkaloid derivatives from <i>Schizanthus tricolor</i> , a chilean Solanaceae species. <i>Planta Medica</i> , 2008, 74, .	1.3	0
185	Metabolite profiling of plant extracts by ultra-high pressure liquid chromatography at elevated temperature coupled to time-of-flight mass spectrometry. <i>Planta Medica</i> , 2009, 75, .	1.3	0
186	Competitive interactions between fungi: a new source of original bioactive molecules. <i>Planta Medica</i> , 2009, 75, .	1.3	0
187	Global contamination of honey by insecticides. , 2017, 03, .		0