Monika C Schreiner

List of Publications by Year
in descending order

177 papers	7,760 citations	38742 50 h-index	69250 77 g-index
179 all docs	179 docs citations	179 times ranked	7639 citing authors

#	Article	IF	Citations
1	Glucosinolates in<i>Brassica</i>vegetables: The influence of the food supply chain on intake, bioavailability and human health. Molecular Nutrition and Food Research, 2009, 53, S219.	3.3	490
2	Reactivity and Stability of Glucosinolates and Their Breakdown Products in Foods. Angewandte Chemie - International Edition, 2014, 53, 11430-11450.	13.8	255
3	UV-B-Induced Secondary Plant Metabolites - Potential Benefits for Plant and Human Health. Critical Reviews in Plant Sciences, 2012, 31, 229-240.	5.7	222
4	UV-B Irradiation Changes Specifically the Secondary Metabolite Profile in Broccoli Sprouts: Induced Signaling Overlaps with Defense Response to Biotic Stressors. Plant and Cell Physiology, 2012, 53, 1546-1560.	3.1	201
5	Dietary advanced glycation end products and their relevance for human health. Ageing Research Reviews, 2018, 47, 55-66.	10.9	162
6	Phytochemicals in Fruit and Vegetables: Health Promotion and Postharvest Elicitors. Critical Reviews in Plant Sciences, 2006, 25, 267-278.	5.7	150
7	Are Neglected Plants the Food for the Future?. Critical Reviews in Plant Sciences, 2016, 35, 106-119.	5.7	149
8	Comparative Evaluation of Total Antioxidant Capacities of Plant Polyphenols. Molecules, 2016, 21, 208.	3.8	146
9	Water Stress and Aphid Feeding Differentially Influence Metabolite Composition in Arabidopsis thaliana (L.). PLoS ONE, 2012, 7, e48661.	2.5	128
10	UVB and UVA as eustressors in horticultural and agricultural crops. Scientia Horticulturae, 2018, 234, 370-381.	3.6	120
11	Vegetable crop management strategies to increase the quantity of phytochemicals. European Journal of Nutrition, 2005, 44, 85-94.	3.9	112
12	Isothiocyanates, Nitriles, and Epithionitriles from Glucosinolates Are Affected by Genotype and Developmental Stage in Brassica oleracea Varieties. Frontiers in Plant Science, 2017, 8, 1095.	3.6	108
13	Genotypic and climatic influences on the concentration and composition of flavonoids in kale (Brassica oleracea var. sabellica). Food Chemistry, 2010, 119, 1293-1299.	8.2	106
14	Identification of complex, naturally occurring flavonoid glycosides in kale (<i>Brassica oleracea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 ionization multiâ€stage mass spectrometry. Rapid Communications in Mass Spectrometry, 2010, 24, 2009-2022.	1.5	105
15	Genotypic and Climatic Influence on the Antioxidant Activity of Flavonoids in Kale (Brassica oleracea) Tj ETQq1 1 0.784314 rgBT /Over	5.2	99
16	Effect of temperature increase under low radiation conditions on phytochemicals and ascorbic acid in greenhouse grown broccoli. Agriculture, Ecosystems and Environment, 2007, 119, 103-111.	5.3	92
17	The hydroxycinnamic acid content of barley and brewersâ€™ spent grain (BSG) and the potential to incorporate phenolic extracts of BSG as antioxidants into fruit beverages. Food Chemistry, 2013, 141, 2567-2574.	8.2	91
18	The intrinsic quality of brassicaceous vegetables: How secondary plant metabolites are affected by genetic, environmental, and agronomic factors. Scientia Horticulturae, 2018, 233, 460-478.	3.6	91

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19	Indigenous leafy vegetables of Eastern Africa â€” A source of extraordinary secondary plant metabolites. Food Research International, 2017, 100, 411-422.	6.2	88
20	Mechanisms of Selenium Enrichment and Measurement in Brassicaceous Vegetables, and Their Application to Human Health. Frontiers in Plant Science, 2017, 8, 1365.	3.6	87
21	Effect of UV-B radiation on morphology, phenolic compound production, gene expression, and subsequent drought stress responses in chili pepper (Capsicum annuum L.). Plant Physiology and Biochemistry, 2019, 134, 94-102.	5.8	86
22	Ontogenetic Changes of 2-Propenyl and 3-Indolylmethyl Glucosinolates in <i>Brassica carinata</i> Leaves as Affected by Water Supply. Journal of Agricultural and Food Chemistry, 2009, 57, 7259-7263.	5.2	85
23	Short-term and moderate UV-B radiation effects on secondary plant metabolism in different organs of nasturtium (Tropaeolum majus L.). Innovative Food Science and Emerging Technologies, 2009, 10, 93-96.	5.6	84
24	UVâ€B Induced Secondary Plant Metabolites. Optik & Photonik, 2014, 9, 34-37.	0.2	84
25	Optimizing isothiocyanate formation during enzymatic glucosinolate breakdown by adjusting pH value, temperature and dilution in Brassica vegetables and Arabidopsis thaliana. Scientific Reports, 2017, 7, 40807.	3.3	84
26	Enhanced Glucosinolates in Root Exudates of Brassica rapa ssp. <i>rapa</i> Mediated by Salicylic Acid and Methyl Jasmonate. Journal of Agricultural and Food Chemistry, 2011, 59, 1400-1405.	5.2	82
27	Glucosinolate Concentration in Turnip (<i>Brassica rapa</i> ssp. <i>rapifera</i> L.) Roots as Affected by Nitrogen and Sulfur Supply. Journal of Agricultural and Food Chemistry, 2007, 55, 8452-8457.	5.2	81
28	Interaction Between Atmospheric CO2 and Glucosinolates in Broccoli. Journal of Chemical Ecology, 2006, 33, 105-114.	1.8	75
29	Post-harvest UV-B irradiation induces changes of phenol contents and corresponding biosynthetic gene expression in peaches and nectarines. Food Chemistry, 2014, 163, 51-60.	8.2	75
30	Genotypic Variation of the Glucosinolate Profile in Pak Choi (Brassica rapa ssp. <i>chinensis</i>). Journal of Agricultural and Food Chemistry, 2013, 61, 1943-1953.	5.2	74
31	Interplay between initial carbohydrate availability, current photosynthesis, and adventitious root formation in Pelargonium cuttings. Plant Science, 2005, 168, 1547-1560.	3.6	73
32	Characterization of Products from the Reaction of Glucosinolate-Derived Isothiocyanates with Cysteine and Lysine Derivatives Formed in Either Model Systems or Broccoli Sprouts. Journal of Agricultural and Food Chemistry, 2012, 60, 7735-7745.	5.2	73
33	Influence of the chemical structure on the thermal degradation of the glucosinolates in broccoli sprouts. Food Chemistry, 2012, 130, 1-8.	8.2	71
34	Singlet oxygen scavenging by leaf flavonoids contributes to sunlight acclimation in Tilia platyphyllos. Environmental and Experimental Botany, 2014, 100, 1-9.	4.2	71
35	Glucosinolates from pak choi and broccoli induce enzymes and inhibit inflammation and colon cancer differently. Food and Function, 2014, 5, 1073-1081.	4.6	70
36	Structurally different flavonol glycosides and hydroxycinnamic acid derivatives respond differently to moderate UVâ€B radiation exposure. Physiologia Plantarum, 2012, 145, 582-593.	5.2	69

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37	Induced Production of 1-Methoxy-indol-3-ylmethyl Glucosinolate by Jasmonic Acid and Methyl Jasmonate in Sprouts and Leaves of Pak Choi (Brassica rapa ssp. chinensis). International Journal of Molecular Sciences, 2013, 14, 14996-15016.	4.1	67
38	Impact of cold atmospheric pressure plasma on physiology and flavonol glycoside profile of peas (Pisum sativum â€˜Salamancaâ€™). Food Research International, 2015, 76, 132-141.	6.2	67
39	Water supply and growing season influence glucosinolate concentration and composition in turnip root (<i>Brassica rapa</i> ssp. <i>rapifera</i> L.). Journal of Plant Nutrition and Soil Science, 2008, 171, 255-265.	1.9	66
40	Interaction of Moderate UV-B Exposure and Temperature on the Formation of Structurally Different Flavonol Glycosides and Hydroxycinnamic Acid Derivatives in Kale (<i>Brassica oleracea</i> var.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	5.2	65
41	Phytochemical Changes Induced by Different Nitrogen Supply Forms and Radiation Levels in Two Leafy <i>Brassica</i> Species. Journal of Agricultural and Food Chemistry, 2011, 59, 4198-4207.	5.2	63
42	Development of a reliable extraction and quantification method for glucosinolates in Moringa oleifera. Food Chemistry, 2015, 166, 456-464.	8.2	63
43	Current understanding and use of quality characteristics of horticulture products. Scientia Horticulturae, 2013, 163, 63-69.	3.6	61
44	Identification of complex, naturally occurring flavonoid glycosides in Vicia faba and Pisum sativum leaves by HPLC-DAD-ESI-MSn and the genotypic effect on their flavonoid profile. Food Research International, 2015, 76, 114-121.	6.2	59
45	Metabolic profiling of glucosinolates and their hydrolysis products in a germplasm collection of Brassica rapa turnips. Food Research International, 2017, 100, 392-403.	6.2	57
46	Degradation of Biofumigant Isothiocyanates and Allyl Glucosinolate in Soil and Their Effects on the Microbial Community Composition. PLoS ONE, 2015, 10, e0132931.	2.5	56
47	Ecotype Variability in Growth and Secondary Metabolite Profile in <i>Moringa oleifera</i>: Impact of Sulfur and Water Availability. Journal of Agricultural and Food Chemistry, 2015, 63, 2852-2861.	5.2	54
48	Highly glycosylated and acylated flavonols isolated from kale (Brassica oleracea var. sabellica) â€" Structureâ€"antioxidant activity relationship. Food Research International, 2012, 47, 80-89.	6.2	53
49	Thermally Induced Degradation of Sulfur-Containing Aliphatic Glucosinolates in Broccoli Sprouts (<i>Brassica oleracea</i> var. <i>italica</i>) and Model Systems. Journal of Agricultural and Food Chemistry, 2012, 60, 2231-2241.	5.2	52
50	Environmental Factors Correlated with the Metabolite Profile of <i>Vitis vinifera</i> cv. Pinot Noir Berry Skins along a European Latitudinal Gradient. Journal of Agricultural and Food Chemistry, 2016, 64, 8722-8734.	5.2	52
51	Identification of glucosinolate congeners able to form DNA adducts and to induce mutations upon activation by myrosinase. Molecular Nutrition and Food Research, 2011, 55, 783-792.	3.3	50
52	Thermally Induced Degradation of Aliphatic Glucosinolates: Identification of Intermediary Breakdown Products and Proposed Degradation Pathways. Journal of Agricultural and Food Chemistry, 2012, 60, 9890-9899.	5.2	47
53	Effects of Developmental Stages and Reduced UVB and Low UV Conditions on Plant Secondary Metabolite Profiles in Pak Choi (<i>Brassica rapa</i> subsp. <i>chinensis</i>). Journal of Agricultural and Food Chemistry, 2018, 66, 1678-1692.	5.2	47
54	The effect of temperature and radiation on flavonol aglycones and flavonol glycosides of kale (Brassica oleracea var. sabellica). Food Chemistry, 2012, 133, 1456-1465.	8.2	46

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55	Identification and characterization of pesticide metabolites in Brassica species by liquid chromatography travelling wave ion mobility quadrupole time-of-flight mass spectrometry (UPLC-TWIMS-QTOF-MS). Food Chemistry, 2018, 244, 292-303.	8.2	46
56	Effects of biofumigation using Brassica juncea and Raphanus sativus in comparison to disinfection using Basamid on apple plant growth and soil microbial communities at three field sites with replant disease. Plant and Soil, 2016, 406, 389-408.	3.7	45
57	Nutritional compound analysis and morphological characterization of spider plant (Cleome) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	6.2	45
58	Uptake of the cyanobacterial toxin cylindrospermopsin in Brassica vegetables. Food Chemistry, 2012, 133, 875-879.	8.2	44
59	The role of plant processing for the cancer preventive potential of Ethiopian kale (Brassica carinata). Food and Nutrition Research, 2017, 61, 1271527.	2.6	44
60	Verticillium Suppression Is Associated with the Glucosinolate Composition of Arabidopsis thaliana Leaves. PLoS ONE, 2013, 8, e71877.	2.5	43
61	Single- versus Multiple-Pest Infestation Affects Differently the Biochemistry of Tomato (<i>Solanum) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	42
62	Mutual Interaction of Phenolic Compounds and Microbiota: Metabolism of Complex Phenolic Apigenin-<i>C</i>- and Kaempferol-<i>O</i>-Derivatives by Human Fecal Samples. Journal of Agricultural and Food Chemistry, 2018, 66, 485-497.	5.2	42
63	Light quality-induced changes of carotenoid composition in pak choi Brassica rapa ssp. chinensis. Journal of Photochemistry and Photobiology B: Biology, 2019, 193, 18-30.	3.8	42
64	The <i>Brassica</i> epithionitrile 1â€cyanoâ€2,3â€epithiopropane triggers cell death in human liver cancer cells in vitro. Molecular Nutrition and Food Research, 2015, 59, 2178-2189.	3.3	41
65	Sustainable food protein supply reconciling human and ecosystem health: A Leibniz Position. Global Food Security, 2020, 25, 100367.	8.1	41
66	1-Methoxy-3-indolylmethyl glucosinolate; a potent genotoxicant in bacterial and mammalian cells: Mechanisms of bioactivation. Chemico-Biological Interactions, 2011, 192, 81-86.	4.0	40
67	Glucosinolates in Mixed-Packaged Mini Broccoli and Mini Cauliflower under Modified Atmosphere. Journal of Agricultural and Food Chemistry, 2006, 54, 2218-2222.	5.2	39
68	Thermal-induced changes of kaleâ€™s antioxidant activity analyzed by HPLCâ€“UV/Vis-online-TEAC detection. Food Chemistry, 2013, 138, 857-865.	8.2	39
69	K. radicincitans, a beneficial bacteria that promotes radish growth under field conditions. Agronomy for Sustainable Development, 2015, 35, 1521-1528.	5.3	39
70	Composition of the Phyllospheric Microbial Populations on Vegetable Plants with Different Glucosinolate and Carotenoid Compositions. Microbial Ecology, 2008, 56, 364-372.	2.8	36
71	High mutagenic activity of juice from pak choi (Brassica rapa ssp. chinensis) sprouts due to its content of 1-methoxy-3-indolylmethyl glucosinolate, and its enhancement by elicitation with methyl jasmonate. Food and Chemical Toxicology, 2014, 67, 10-16.	3.6	36
72	The influence of selenium addition during germination of<i>Brassica</i>seeds on health-promoting potential of sprouts. International Journal of Food Sciences and Nutrition, 2014, 65, 692-702.	2.8	36

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73	Rhizosecretion of stele-synthesized glucosinolates and their catabolites requires GTR-mediated import in Arabidopsis. Journal of Experimental Botany, 2016, 68, erw355.	4.8	35
74	Differences in the enzymatic hydrolysis of glucosinolates increase the defense metabolite diversity in 19 Arabidopsis thaliana accessions. Plant Physiology and Biochemistry, 2018, 124, 126-135.	5.8	35
75	Plant growth-promoting bacteria Kosakonia radicincitans mediate anti-herbivore defense in Arabidopsis thaliana. Planta, 2018, 248, 1383-1392.	3.2	35
76	Changes of Glucosinolates in Mixed Fresh-Cut Broccoli and Cauliflower Florets in Modified Atmosphere Packaging. Journal of Food Science, 2007, 72, S585-S589.	3.1	34
77	Topsoil drying combined with increased sulfur supply leads to enhanced aliphatic glucosinolates in Brassica juncea leaves and roots. Food Chemistry, 2014, 152, 190-196.	8.2	34
78	Environmental plasticity of Pinot noir grapevine leaves: A transâ€European study of morphological and biochemical changes along a 1,500â€km latitudinal climatic gradient. Plant, Cell and Environment, 2017, 40, 2790-2805.	5.7	34
79	Seasonal climate effects on root colour and compounds of red radish. Journal of the Science of Food and Agriculture, 2002, 82, 1325-1333.	3.5	32
80	Bread Enriched With Legume Microgreens and Leavesâ€"Ontogenetic and Baking-Driven Changes in the Profile of Secondary Plant Metabolites. Frontiers in Chemistry, 2018, 6, 322.	3.6	32
81	Unlike Quercetin Glycosides, Cyanidin Glycoside in Red Leaf Lettuce Responds More Sensitively to Increasing Low Radiation Intensity before than after Head Formation Has Started. Journal of Agricultural and Food Chemistry, 2014, 62, 6911-6917.	5.2	31
82	Cytotoxic and genotoxic potential of food-borne nitriles in a liver in vitro model. Scientific Reports, 2016, 6, 37631.	3.3	31
83	Postharvest quality of pepino (Solanum muricatum Ait.) fruit in controlled atmosphere storage. Journal of Food Engineering, 2006, 77, 628-634.	5.2	30
84	Interaction between Plants and Bacteria: Glucosinolates and Phyllospheric Colonization of Cruciferous Vegetables by <i>Enterobacter radicincitans</i> DSM 16656. Journal of Molecular Microbiology and Biotechnology, 2009, 17, 124-135.	1.0	30
85	Recent progress in the use of Ã¢â‚¬Ëœomics technologies in brassicaceous vegetables. Frontiers in Plant Science, 2015, 6, 244.	3.6	30
86	Chlorogenic acid versus amaranth's caffeoylisocitric acid â€" Gut microbial degradation of caffeic acid derivatives. Food Research International, 2017, 100, 375-384.	6.2	30
87	Verticillium longisporum infection induces organ-specific glucosinolate degradation in Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 508.	3.6	29
88	Benzylglucosinolate Derived Isothiocyanate from Tropaeolum majus Reduces Gluconeogenic Gene and Protein Expression in Human Cells. PLoS ONE, 2016, 11, e0162397.	2.5	28
89	Brassica-enriched wheat bread: Unraveling the impact of ontogeny and breadmaking on bioactive secondary plant metabolites of pak choi and kale. Food Chemistry, 2019, 295, 412-422.	8.2	28
90	Effect of film packaging and surface coating on primary and secondary plant compounds in fruit and vegetable products. Journal of Food Engineering, 2003, 56, 237-240.	5.2	27

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91	Methyl Jasmonate-Induced Changes of Flavor Profiles During the Processing of Green, Oolong, and Black Tea. Frontiers in Plant Science, 2019, 10, 781.	3.6	27
92	Different Narrow-Band Light Ranges Alter Plant Secondary Metabolism and Plant Defense Response to Aphids. Journal of Chemical Ecology, 2016, 42, 989-1003.	1.8	26
93	Effect of cultivars and deep freeze storage on saponin content of white asparagus spears (Asparagus) Tj ETQq1 1 0.784314 rgBT /Overl	3.3	25
94	Influence of salicylic acid and methyl jasmonate on glucosinolate levels in turnip. Journal of Horticultural Science and Biotechnology, 2007, 82, 690-694.	1.9	25
95	Nitrogen split dose fertilization, plant age and frost effects on phytochemical content and sensory properties of curly kale (Brassica oleracea L. var. sabellica). Food Chemistry, 2016, 197, 530-538.	8.2	25
96	Integrated proteomic and metabolomic analyses reveal the importance of aroma precursor accumulation and storage in methyl jasmonate-primed tea leaves. Horticulture Research, 2021, 8, 95.	6.3	25
97	Determination of benzyl isothiocyanate metabolites in human plasma and urine by LC-ESI-MS/MS after ingestion of nasturtium (Tropaeolum majus L.). Analytical and Bioanalytical Chemistry, 2013, 405, 7427-7436.	3.7	24
98	Bioavailability and biotransformation of sulforaphane and erucin metabolites in different biological matrices determined by LCâ€“MSâ€“MS. Analytical and Bioanalytical Chemistry, 2015, 407, 1819-1829.	3.7	24
99	Arabidopsis thaliana root and root exudate metabolism is altered by the growth-promoting bacterium Kosakonia radicincitans DSM 16656T. Plant and Soil, 2017, 419, 557-573.	3.7	24
100	Responses of Arabidopsis thaliana plant lines differing in hydroxylation of aliphatic glucosinolate side chains to feeding of a generalist and specialist caterpillar. Plant Physiology and Biochemistry, 2012, 55, 52-59.	5.8	23
101	Carotenoid biosynthesis of pak choi (Brassica rapa ssp. chinensis) sprouts grown under different light-emitting diodes during the diurnal course. Photochemical and Photobiological Sciences, 2018, 17, 1289-1300.	2.9	23
102	Effect of nitrogen form and radiation on growth and mineral concentration of two Brassica species. Scientia Horticulturae, 2009, 123, 170-177.	3.6	22
103	Atmospheric Carbon Dioxide Changes Photochemical Activity, Soluble Sugars and Volatile Levels in Broccoli (<i>Brassica oleracea</i>var.<i>italica)</i>. Journal of Agricultural and Food Chemistry, 2010, 58, 3747-3752.	5.2	22
104	Low and moderate photosynthetically active radiation affects the flavonol glycosides and hydroxycinnamic acid derivatives in kale (Brassica oleracea var. sabellica) dependent on two low temperatures. Plant Physiology and Biochemistry, 2013, 72, 161-168.	5.8	22
105	Nasturtium (Indian cress, Tropaeolum majus nanum) dually blocks the COX and LOX pathway in primary human immune cells. Phytomedicine, 2016, 23, 611-620.	5.3	22
106	Can narrow-bandwidth light from UV-A to green alter secondary plant metabolism and increase Brassica plant defenses against aphids?. PLoS ONE, 2017, 12, e0188522.	2.5	22
107	Natural diversity of hydroxycinnamic acid derivatives, flavonoid glycosides, carotenoids and chlorophylls in leaves of six different amaranth species. Food Chemistry, 2018, 267, 376-386.	8.2	22
108	Flavonoid Glycosides and Hydroxycinnamic Acid Derivatives in Baby Leaf Rapeseed From White and Yellow Flowering Cultivars With Repeated Harvest in a 2-Years Field Study. Frontiers in Plant Science, 2019, 10, 355.	3.6	22

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109	Identification of novel saponins in vegetable amaranth and characterization of their hemolytic activity. Food Research International, 2015, 78, 361-368.	6.2	21
110	An arbuscular mycorrhizal fungus and a root pathogen induce different volatiles emitted by Medicago truncatula roots. Journal of Advanced Research, 2019, 19, 85-90.	9.5	21
111	Intercropping Induces Changes in Specific Secondary Metabolite Concentration in Ethiopian Kale (Brassica carinata) and African Nightshade (Solanum scabrum) under Controlled Conditions. Frontiers in Plant Science, 2017, 8, 1700.	3.6	20
112	Brassica vegetables as sources of epithionitriles: Novel secondary products formed during cooking. Food Chemistry, 2018, 245, 564-569.	8.2	20
113	Influence of Cultivar and Fertilizer Approach on Curly Kale (<i>Brassica oleracea</i> L. var.) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Concentration. Journal of Agricultural and Food Chemistry, 2014, 62, 11393-11402.	5.2	19
114	Interactive effects of arbuscular mycorrhizal fungi and intercropping with sesame (Sesamum indicum) on the glucosinolate profile in broccoli (Brassica oleracea var. Italica). Environmental and Experimental Botany, 2015, 109, 288-295.	4.2	18
115	Evaluation of an Aqueous Extract from Horseradish Root (<i>Armoracia rusticana</i>Radix) against Lipopolysaccharide-Induced Cellular Inflammation Reaction. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-10.	1.2	18
116	Spear yield and quality of white asparagus as affected by soil temperature. European Journal of Agronomy, 2006, 25, 336-344.	4.1	17
117	Developing Pheromone Traps and Lures for Maruca vitrata in Taiwan. Gesunde Pflanzen, 2012, 64, 183-186.	3.0	17
118	Effect of Differential N and S Competition in Inter- and Sole Cropping of <i>Brassica</i> Species and Lettuce on Glucosinolate Concentration. Journal of Agricultural and Food Chemistry, 2012, 60, 6268-6278.	5.2	17
119	UV responses of <i>Lolium perenne</i> raised along a latitudinal gradient across Europe: a filtration study. Physiologia Plantarum, 2012, 145, 604-618.	5.2	17
120	A secondary metabolite of Brassicales, 1-methoxy-3-indolylmethyl glucosinolate, as well as its degradation product, 1-methoxy-3-indolylmethyl alcohol, forms DNA adducts in the mouse, but in varying tissues and cells. Archives of Toxicology, 2014, 88, 823-36.	4.2	17
121	African Nightshade (Solanum scabrum Mill.): Impact of Cultivation and Plant Processing on Its Health Promoting Potential as Determined in a Human Liver Cell Model. Nutrients, 2018, 10, 1532.	4.1	17
122			

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127	Hairy roots, callus, and mature plants of Arabidopsis thaliana exhibit distinct glucosinolate and gene expression profiles. Plant Cell, Tissue and Organ Culture, 2013, 115, 45-54.	2.3	15
128	Functional identification of genes responsible for the biosynthesis of 1-methoxy-indol-3-ylmethyl-glucosinolate in Brassica rapa ssp. chinensis. BMC Plant Biology, 2014, 14, 124.	3.6	15
129	Effects of Amaranthus cruentus L. on aflatoxin B1- and oxidative stress-induced DNA damage in human liver (HepG2) cells. Food Bioscience, 2018, 26, 42-48.	4.4	15
130	COMPOSITION OF CAROTENOIDS IN TOMATO FRUITS AS AFFECTED BY MODERATE UV-B RADIATION BEFORE HARVEST. Acta Horticulturae, 2009, , 217-222.	0.2	14
131	Impact of hydroxylated and non-hydroxylated aliphatic glucosinolates in Arabidopsis thaliana crosses on plant resistance against a generalist and a specialist herbivore. Chemoecology, 2011, 21, 171-180.	1.1	14
132	UV-B Pre-treatment Alters Phenolics Response to Monilinia fructicola Infection in a Structure-Dependent Way in Peach Skin. Frontiers in Plant Science, 2018, 9, 1598.	3.6	14
133	Boiling and steaming induced changes in secondary metabolites in three different cultivars of pak choi (Brassica rapa subsp. chinensis). Journal of Food Composition and Analysis, 2019, 82, 103232.	3.9	14
134	Mixed cropping with maize combined with moderate UV-B radiations lead to enhanced flavonoid production and root growth in faba bean. Journal of Plant Interactions, 2012, 7, 333-340.	2.1	13
135	Are Raw Brassica Vegetables Healthier Than Cooked Ones? A Randomized, Controlled Crossover Intervention Trial on the Health-Promoting Potential of Ethiopian Kale. Nutrients, 2018, 10, 1622.	4.1	13
136	Effect of Solid Biological Waste Compost on the Metabolite Profile of Brassica rapa ssp. chinensis. Frontiers in Plant Science, 2018, 9, 305.	3.6	13
137	Diverse Excretion Pathways of Benzyl Glucosinolate in Humans after Consumption of Nasturtium (<i>Tropaeolum majus</i> L.)â€"A Pilot Study. Molecular Nutrition and Food Research, 2018, 62, e1800588.	3.3	13
138	Importance of Antixenosis and Antibiosis Resistance to the Cabbage Whitefly (Aleyrodes proletella) in Brussels Sprout Cultivars. Insects, 2020, 11, 56.	2.2	13
139	Effects of single and mixed inoculation with two arbuscular mycorrhizal fungi in two different levels of phosphorus supply on Î²-carotene concentrations in sweet potato (Ipomoea batatas L.) tubers. Plant and Soil, 2013, 372, 361-374.	3.7	12
140	Pheromone Blend Analysis and Cross-Attraction among Populations of Maruca vitrata from Asia and West Africa. Journal of Chemical Ecology, 2015, 41, 1155-1162.	1.8	12
141	Metabolic Engineering of Aliphatic Glucosinolates in Hairy Root Cultures of Arabidopsis thaliana. Plant Molecular Biology Reporter, 2015, 33, 598-608.	1.8	12
142	Metabolite Profiling Reveals a Specific Response in Tomato to Predaceous Chrysoperla carnea Larvae and Herbivore(s)-Predator Interactions with the Generalist Pests Tetranychus urticae and Myzus persicae. Frontiers in Plant Science, 2016, 7, 1256.	3.6	12
143	Narrow-Banded UVB Affects the Stability of Secondary Plant Metabolites in Kale (Brassica oleracea) Tj ETQq1 1 0.784314 rgBT /Overl Approach for Producing Functional Foods. Foods, 2019, 8, 427.	4.3	12
144	Allyl Isothiocyanate: A TAS2R38 Receptor-Dependent Immune Modulator at the Interface Between Personalized Medicine and Nutrition. Frontiers in Immunology, 2021, 12, 669005.	4.8	12

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145	Effect of methionine foliar fertilization on glucosinolate concentration in broccoli and radish. Auswirkungen einer Methionin-BlattdÃ¼ngung auf die Glucosinolatkonzentration in Brokkoli und Radies. Journal of Plant Nutrition and Soil Science, 2005, 168, 275-277.	1.9	11
146	Determination of bioactive, free isothiocyanates from a glucosinolate-containing phytotherapeutic agent: A pilot study with in vitro models and human intervention. FÃ¬toterapÃ¬Ã¢, 2013, 85, 25-34.	2.2	11
147	A Proteomic Approach Suggests Unbalanced Proteasome Functioning Induced by the Growth-Promoting Bacterium Kosakonia radicincitans in Arabidopsis. Frontiers in Plant Science, 2017, 8, 661.	3.6	11
148	Utilization of Regional Natural Brines for the Indoor Cultivation of Salicornia europaea. Sustainability, 2021, 13, 12105.	3.2	11
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