

Susanne Neugart

List of Publications by Year in descending order

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77
papers

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126708

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#	ARTICLE	IF	CITATIONS
1	Toxicity, Antioxidant Activity, and Phytochemicals of Basil (<i>Ocimum basilicum</i> L.) Leaves Cultivated in Southern Punjab, Pakistan. <i>Foods</i> , 2022, 11, 1239.	1.9	25
2	Zusammenhang zwischen phenolischen Verbindungen, antioxidativen Eigenschaften und dem allergenen Protein Mal d 1 in verschiedenen Selen-biofortifizierten Apfelsorten. <i>Lebensmittelchemie</i> , 2021, 75, S1-067.	0.0	0
3	Relationship between Phenolic Compounds, Antioxidant Properties, and the Allergenic Protein Mal d 1 in Different Selenium-Biofortified Apple Cultivars (<i>Malus domestica</i>). <i>Molecules</i> , 2021, 26, 2647.	1.7	5
4	Rapid adjustment in epidermal UV sunscreen: Comparison of optical measurement techniques and response to changing solar UV radiation conditions. <i>Physiologia Plantarum</i> , 2021, 173, 725-735.	2.6	6
5	Subsequent treatment of leafy vegetables with low doses of UVB-radiation does not provoke cytotoxicity, genotoxicity, or oxidative stress in a human liver cell model. <i>Food Bioscience</i> , 2021, 43, 101327.	2.0	8
6	Flavonoid Glycosides in Brassica Species Respond to UV-B Depending on Exposure Time and Adaptation Time. <i>Molecules</i> , 2021, 26, 494.	1.7	15
7	Aqueous and gaseous plasma applications for the treatment of mung bean seeds. <i>Scientific Reports</i> , 2021, 11, 19681.	1.6	10
8	The Function of Flavonoids in the Diurnal Rhythm under Rapidly Changing UV Conditions—A Model Study on Okra. <i>Plants</i> , 2021, 10, 2268.	1.6	6
9	Interactions of Ascorbic Acid, 5-Caffeoylquinic Acid, and Quercetin-3-Rutinoside in the Presence and Absence of Iron during Thermal Processing and the Influence on Antioxidant Activity. <i>Molecules</i> , 2021, 26, 7698.	1.7	9
10	Editorial: Ultraviolet Radiation: Friend or Foe for Plants?. <i>Frontiers in Plant Science</i> , 2020, 11, 541.	1.7	4
11	Assessment of hyperspectral indicators related to the content of phenolic compounds and multispectral fluorescence records in chicory leaves exposed to various light environments. <i>Plant Physiology and Biochemistry</i> , 2020, 154, 429-438.	2.8	18
12	Influence of a Selenium Biofortification on Antioxidant Properties and Phenolic Compounds of Apples (<i>Malus domestica</i>). <i>Antioxidants</i> , 2020, 9, 187.	2.2	36
13	The transgenerational effects of solar short-UV radiation differed in two accessions of <i>Vicia faba</i> L. from contrasting UV environments. <i>Journal of Plant Physiology</i> , 2020, 248, 153145.	1.6	6
14	Ultraviolet-B radiation exposure lowers the antioxidant capacity in the <i>Arabidopsis thaliana</i> pdx1.3-1 mutant and leads to glucosinolate biosynthesis alteration in both wild type and mutant. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 217-228.	1.6	5
15	Sustainable food protein supply reconciling human and ecosystem health: A Leibniz Position. <i>Global Food Security</i> , 2020, 25, 100367.	4.0	41
16	Blue Light Treatment but Not Green Light Treatment After Pre-exposure to UV-B Stabilizes Flavonoid Glycoside Changes and Corresponding Biological Effects in Three Different Brassicaceae Sprouts. <i>Frontiers in Plant Science</i> , 2020, 11, 611247.	1.7	9
17	Effect of UV-B radiation on morphology, phenolic compound production, gene expression, and subsequent drought stress responses in chili pepper (<i>Capsicum annuum</i> L.). <i>Plant Physiology and Biochemistry</i> , 2019, 134, 94-102.	2.8	86
18	Narrow-Banded UVB Affects the Stability of Secondary Plant Metabolites in Kale (<i>Brassica oleracea</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Approach for Producing Functional Foods. <i>Foods</i> , 2019, 8, 427.	1.9	12

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19	Application of supplemental UV-B radiation in pre-harvest to enhance health-promoting compounds accumulation in green and red lettuce. <i>Journal of Food Processing and Preservation</i> , 2019, 43, e14213.	0.9	12
20	Responses of flavonoid profile and associated gene expression to solar blue and UV radiation in two accessions of <i>Vicia faba</i> L. from contrasting UV environments. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 434-447.	1.6	26
21	A perspective on ecologically relevant plant-UV research and its practical application. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 970-988.	1.6	69
22	Boiling and steaming induced changes in secondary metabolites in three different cultivars of pak choi (<i>Brassica rapa</i> subsp. <i>chinensis</i>). <i>Journal of Food Composition and Analysis</i> , 2019, 82, 103232.	1.9	14
23	Precultivation of young seedlings under different color shades modifies the accumulation of phenolic compounds in <i>Cichorium</i> leaves in later growth phases. <i>Environmental and Experimental Botany</i> , 2019, 165, 30-38.	2.0	24
24	Different irradiances of UV and PAR in the same ratios alter the flavonoid profiles of <i>Arabidopsis thaliana</i> wild types and UV-signalling pathway mutants. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 1685-1699.	1.6	14
25	Brassica-enriched wheat bread: Unraveling the impact of ontogeny and breadmaking on bioactive secondary plant metabolites of pak choi and kale. <i>Food Chemistry</i> , 2019, 295, 412-422.	4.2	28
26	How do cryptochromes and UVR8 interact in natural and simulated sunlight?. <i>Journal of Experimental Botany</i> , 2019, 70, 4975-4990.	2.4	57
27	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. <i>Frontiers in Plant Science</i> , 2019, 10, 355.	1.7	22
28	Amaranth's 2-Caffeoylisocitric Acid—An Anti-Inflammatory Caffeic Acid Derivative That Impairs NF- κ B Signaling in LPS-Challenged RAW 264.7 Macrophages. <i>Nutrients</i> , 2019, 11, 571.	1.7	16
29	The intrinsic quality of brassicaceous vegetables: How secondary plant metabolites are affected by genetic, environmental, and agronomic factors. <i>Scientia Horticulturae</i> , 2018, 233, 460-478.	1.7	91
30	UVB and UVA as eustressors in horticultural and agricultural crops. <i>Scientia Horticulturae</i> , 2018, 234, 370-381.	1.7	120
31	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>). <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1678-1692.	2.4	47
32	Mutual Interaction of Phenolic Compounds and Microbiota: Metabolism of Complex Phenolic Apigenin-C- and Kaempferol-O-Derivatives by Human Fecal Samples. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 485-497.	2.4	42
33	Natural diversity of hydroxycinnamic acid derivatives, flavonoid glycosides, carotenoids and chlorophylls in leaves of six different amaranth species. <i>Food Chemistry</i> , 2018, 267, 376-386.	4.2	22
34	Are Raw Brassica Vegetables Healthier Than Cooked Ones? A Randomized, Controlled Crossover Intervention Trial on the Health-Promoting Potential of Ethiopian Kale. <i>Nutrients</i> , 2018, 10, 1622.	1.7	13
35	UV-B Pre-treatment Alters Phenolics Response to <i>Monilinia fructicola</i> Infection in a Structure-Dependent Way in Peach Skin. <i>Frontiers in Plant Science</i> , 2018, 9, 1598.	1.7	14
36	Effects of <i>Amaranthus cruentus</i> L. on aflatoxin B1- and oxidative stress-induced DNA damage in human liver (HepG2) cells. <i>Food Bioscience</i> , 2018, 26, 42-48.	2.0	15

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37	African Nightshade (<i>Solanum scabrum</i> Mill.): Impact of Cultivation and Plant Processing on Its Health Promoting Potential as Determined in a Human Liver Cell Model. <i>Nutrients</i> , 2018, 10, 1532.	1.7	17
38	Effect of Solid Biological Waste Compost on the Metabolite Profile of <i>Brassica rapa</i> ssp. <i>chinensis</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 305.	1.7	13
39	Bread Enriched With Legume Microgreens and Leavesâ€™ Ontogenetic and Baking-Driven Changes in the Profile of Secondary Plant Metabolites. <i>Frontiers in Chemistry</i> , 2018, 6, 322.	1.8	32
40	Selected Plant Metabolites Involved in Oxidation-Reduction Processes during Bud Dormancy and Ontogenetic Development in Sweet Cherry Buds (<i>Prunus avium</i> L.). <i>Molecules</i> , 2018, 23, 1197.	1.7	18
41	The role of plant processing for the cancer preventive potential of Ethiopian kale (<i>Brassica carinata</i>). <i>Food and Nutrition Research</i> , 2017, 61, 1271527.	1.2	44
42	Indigenous leafy vegetables of Eastern Africa â€™ A source of extraordinary secondary plant metabolites. <i>Food Research International</i> , 2017, 100, 411-422.	2.9	88
43	UV-A radiation effects on higher plants: Exploring the known unknown. <i>Plant Science</i> , 2017, 255, 72-81.	1.7	220
44	Chlorogenic acid versus amaranth's caffeoylisocitric acid â€™ Gut microbial degradation of caffeic acid derivatives. <i>Food Research International</i> , 2017, 100, 375-384.	2.9	30
45	Environmental plasticity of Pinot noir grapevine leaves: A transâ€™ European study of morphological and biochemical changes along a 1,500â€™km latitudinal climatic gradient. <i>Plant, Cell and Environment</i> , 2017, 40, 2790-2805.	2.8	34
46	<i>Arabidopsis thaliana</i> root and root exudate metabolism is altered by the growth-promoting bacterium <i>Kosakonia radicincitans</i> DSM 16656T. <i>Plant and Soil</i> , 2017, 419, 557-573.	1.8	24
47	Nutritional compound analysis and morphological characterization of spider plant (<i>Cleome</i>) Tj ETQq1 1 0.784314 <small>gBT /Overlock 10 Tf</small>	2.9	45
48	Intercropping Induces Changes in Specific Secondary Metabolite Concentration in Ethiopian Kale (<i>Brassica carinata</i>) and African Nightshade (<i>Solanum scabrum</i>) under Controlled Conditions. <i>Frontiers in Plant Science</i> , 2017, 8, 1700.	1.7	20
49	A Guide to the Variability of Flavonoids in <i>Brassica oleracea</i> . <i>Molecules</i> , 2017, 22, 252.	1.7	38
50	Can narrow-bandwidth light from UV-A to green alter secondary plant metabolism and increase <i>Brassica</i> plant defenses against aphids?. <i>PLoS ONE</i> , 2017, 12, e0188522.	1.1	22
51	Comparative Evaluation of Total Antioxidant Capacities of Plant Polyphenols. <i>Molecules</i> , 2016, 21, 208.	1.7	146
52	Influence of Light and Temperature on Gene Expression Leading to Accumulation of Specific Flavonol Glycosides and Hydroxycinnamic Acid Derivatives in Kale (<i>Brassica oleracea</i> var. <i>sabellica</i>). <i>Frontiers in Plant Science</i> , 2016, 7, 326.	1.7	61
53	Are Neglected Plants the Food for the Future?. <i>Critical Reviews in Plant Sciences</i> , 2016, 35, 106-119.	2.7	149
54	Different Narrow-Band Light Ranges Alter Plant Secondary Metabolism and Plant Defense Response to Aphids. <i>Journal of Chemical Ecology</i> , 2016, 42, 989-1003.	0.9	26

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55	Effects of light-emitting diode treatments on <i>Brevicoryne brassicae</i> performance mediated by secondary metabolites in Brussels sprouts. <i>Journal of Plant Diseases and Protection</i> , 2016, 123, 321-330.	1.6	16
56	Environmental Factors Correlated with the Metabolite Profile of <i>Vitis vinifera</i> cv. Pinot Noir Berry Skins along a European Latitudinal Gradient. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 8722-8734.	2.4	52
57	Nitrogen split dose fertilization, plant age and frost effects on phytochemical content and sensory properties of curly kale (<i>Brassica oleracea</i> L. var. <i>sabellica</i>). <i>Food Chemistry</i> , 2016, 197, 530-538.	4.2	25
58	UV-B Elicitation of Secondary Plant Metabolites. <i>Springer Series in Materials Science</i> , 2016, , 387-414.	0.4	9
59	Recent progress in the use of Æœomics technologies in brassicaceous vegetables. <i>Frontiers in Plant Science</i> , 2015, 6, 244.	1.7	30
60	Impact of cold atmospheric pressure plasma on physiology and flavonol glycoside profile of peas (<i>Pisum sativum</i> â€™Salamancaâ€™). <i>Food Research International</i> , 2015, 76, 132-141.	2.9	67
61	Identification of complex, naturally occurring flavonoid glycosides in <i>Vicia faba</i> and <i>Pisum sativum</i> leaves by HPLC-DAD-ESI-MSn and the genotypic effect on their flavonoid profile. <i>Food Research International</i> , 2015, 76, 114-121.	2.9	59
62	Identification of novel saponins in vegetable amaranth and characterization of their hemolytic activity. <i>Food Research International</i> , 2015, 78, 361-368.	2.9	21
63	Assessing the response of plant flavonoids to UV radiation: an overview of appropriate techniques. <i>Phytochemistry Reviews</i> , 2015, 14, 273-297.	3.1	98
64	Influence of Cultivar and Fertilizer Approach on Curly Kale (<i>Brassica oleracea</i> L. var.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td Concentration. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 11393-11402.	2.4	19
65	Singlet oxygen scavenging by leaf flavonoids contributes to sunlight acclimation in <i>Tilia platyphyllos</i> . <i>Environmental and Experimental Botany</i> , 2014, 100, 1-9.	2.0	71
66	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 29	2.4	19
67	Post-harvest UV-B irradiation induces changes of phenol contents and corresponding biosynthetic gene expression in peaches and nectarines. <i>Food Chemistry</i> , 2014, 163, 51-60.	4.2	75
68	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. <i>Food Chemistry</i> , 2013, 141, 2567-2574.	4.2	91
69	Low and moderate photosynthetically active radiation affects the flavonol glycosides and hydroxycinnamic acid derivatives in kale (<i>Brassica oleracea</i> var. <i>sabellica</i>) dependent on two low temperatures. <i>Plant Physiology and Biochemistry</i> , 2013, 72, 161-168.	2.8	22
70	Thermal-induced changes of kaleâ€™s antioxidant activity analyzed by HPLCâ€™UV/Vis-online-TEAC detection. <i>Food Chemistry</i> , 2013, 138, 857-865.	4.2	39
71	Mixed cropping with maize combined with moderate UV-B radiations lead to enhanced flavonoid production and root growth in faba bean. <i>Journal of Plant Interactions</i> , 2012, 7, 333-340.	1.0	13
72	Highly glycosylated and acylated flavonols isolated from kale (<i>Brassica oleracea</i> var. <i>sabellica</i>) â€™ Structureâ€™ antioxidant activity relationship. <i>Food Research International</i> , 2012, 47, 80-89.	2.9	53

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73	Structurally different flavonol glycosides and hydroxycinnamic acid derivatives respond differently to moderate UV-B radiation exposure. <i>Physiologia Plantarum</i> , 2012, 145, 582-593.	2.6	69
74	The effect of temperature and radiation on flavonol aglycones and flavonol glycosides of kale (<i>Brassica oleracea</i> var. <i>sabellica</i>). <i>Food Chemistry</i> , 2012, 133, 1456-1465.	4.2	46
75	Genotypic and climatic influences on the concentration and composition of flavonoids in kale (<i>Brassica oleracea</i> var. <i>sabellica</i>). <i>Food Chemistry</i> , 2010, 119, 1293-1299.	4.2	106
76	Identification of complex, naturally occurring flavonoid glycosides in kale (<i>Brassica oleracea</i>) by electrospray ionization multi-stage mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2009-2022.	0.7	105
77	Genotypic and Climatic Influence on the Antioxidant Activity of Flavonoids in Kale (<i>Brassica oleracea</i>) by Electrospray Ionization Multi-Stage Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2010, 24, 2009-2022.	2.4	99