

Meike Burow

List of Publications by Year in descending order

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70
papers

5,040
citations

94381

37
h-index

95218

68
g-index

76
all docs

76
docs citations

76
times ranked

5272
citing authors

#	ARTICLE	IF	CITATIONS
1	NRT/PTR transporters are essential for translocation of glucosinolate defence compounds to seeds. <i>Nature</i> , 2012, 488, 531-534.	13.7	429
2	Glucosinolate structural diversity, identification, chemical synthesis and metabolism in plants. <i>Phytochemistry</i> , 2020, 169, 112100.	1.4	315
3	Glucosinolate Breakdown in Arabidopsis: Mechanism, Regulation and Biological Significance. <i>The Arabidopsis Book</i> , 2010, 8, e0134.	0.5	286
4	DOF transcription factor AtDof1.1 (OBP2) is part of a regulatory network controlling glucosinolate biosynthesis in Arabidopsis. <i>Plant Journal</i> , 2006, 47, 10-24.	2.8	243
5	A Complex Interplay of Three R2R3 MYB Transcription Factors Determines the Profile of Aliphatic Glucosinolates in Arabidopsis. <i>Plant Physiology</i> , 2010, 153, 348-363.	2.3	226
6	Integration of Biosynthesis and Long-Distance Transport Establish Organ-Specific Glucosinolate Profiles in Vegetative Arabidopsis. <i>Plant Cell</i> , 2013, 25, 3133-3145.	3.1	170
7	The Metabolic Response of Arabidopsis Roots to Oxidative Stress is Distinct from that of Heterotrophic Cells in Culture and Highlights a Complex Relationship between the Levels of Transcripts, Metabolites, and Flux. <i>Molecular Plant</i> , 2009, 2, 390-406.	3.9	155
8	The Genetic Basis of Constitutive and Herbivore-Induced ESP-Independent Nitrile Formation in Arabidopsis. <i>Plant Physiology</i> , 2009, 149, 561-574.	2.3	148
9	Regulation of MYB and bHLH Transcription Factors: A Glance at the Protein Level. <i>Molecular Plant</i> , 2015, 8, 378-388.	3.9	141
10	Altered Glucosinolate Hydrolysis in Genetically Engineered Arabidopsis thaliana and its Influence on the Larval Development of Spodoptera littoralis. <i>Journal of Chemical Ecology</i> , 2006, 32, 2333-2349.	0.9	139
11	Comparative biochemical characterization of nitrile-forming proteins from plants and insects that alter myrosinase-catalysed hydrolysis of glucosinolates. <i>FEBS Journal</i> , 2006, 273, 2432-2446.	2.2	129
12	An NPF transporter exports a central monoterpene indole alkaloid intermediate from the vacuole. <i>Nature Plants</i> , 2017, 3, 16208.	4.7	123
13	Formation of Simple Nitriles upon Glucosinolate Hydrolysis Affects Direct and Indirect Defense Against the Specialist Herbivore, Pieris rapae. <i>Journal of Chemical Ecology</i> , 2008, 34, 1311-1321.	0.9	115
14	Glucosinolate hydrolysis in Lepidium sativum – identification of the thiocyanate-forming protein. <i>Plant Molecular Biology</i> , 2006, 63, 49-61.	2.0	110
15	How does a plant orchestrate defense in time and space? Using glucosinolates in Arabidopsis as case study. <i>Current Opinion in Plant Biology</i> , 2017, 38, 142-147.	3.5	109
16	R2R3 MYB Transcription Factors – Functions outside the DNA-Binding Domain. <i>Trends in Plant Science</i> , 2019, 24, 934-946.	4.3	109
17	ESP and ESM1 mediate indol-3-acetonitrile production from indol-3-ylmethyl glucosinolate in Arabidopsis. <i>Phytochemistry</i> , 2008, 69, 663-671.	1.4	90
18	Evolution of specifier proteins in glucosinolate-containing plants. <i>BMC Evolutionary Biology</i> , 2012, 12, 127.	3.2	87

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19	Tipping the Scales—Specifier Proteins in Glucosinolate Hydrolysis. <i>IUBMB Life</i> , 2007, 59, 744-751.	1.5	86
20	An evolutionarily young defense metabolite influences the root growth of plants via the ancient TOR signaling pathway. <i>ELife</i> , 2017, 6, .	2.8	84
21	Regulatory networks of glucosinolates shape <i>Arabidopsis thaliana</i> fitness. <i>Current Opinion in Plant Biology</i> , 2010, 13, 347-352.	3.5	81
22	Transcriptome and Metabolite Changes during Hydrogen Cyanamide-Induced Floral Bud Break in Sweet Cherry. <i>Frontiers in Plant Science</i> , 2017, 8, 1233.	1.7	81
23	Regulation and function of specifier proteins in plants. <i>Phytochemistry Reviews</i> , 2009, 8, 87-99.	3.1	72
24	Localization of the glucosinolate biosynthetic enzymes reveals distinct spatial patterns for the biosynthesis of indole and aliphatic glucosinolates. <i>Physiologia Plantarum</i> , 2018, 163, 138-154.	2.6	69
25	Fusion of Ferredoxin and Cytochrome P450 Enables Direct Light-Driven Biosynthesis. <i>ACS Chemical Biology</i> , 2016, 11, 1862-1869.	1.6	67
26	Metabolic engineering of light-driven cytochrome P450 dependent pathways into <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2016, 33, 1-11.	3.6	66
27	The Glucosinolate Biosynthetic Gene AOP2 Mediates Feed-back Regulation of Jasmonic Acid Signaling in <i>Arabidopsis</i> . <i>Molecular Plant</i> , 2015, 8, 1201-1212.	3.9	62
28	Genome Wide Association Mapping in <i>Arabidopsis thaliana</i> Identifies Novel Genes Involved in Linking Allyl Glucosinolate to Altered Biomass and Defense. <i>Frontiers in Plant Science</i> , 2016, 7, 1010.	1.7	62
29	Natural variation in cross-talk between glucosinolates and onset of flowering in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 697.	1.7	60
30	Cell- and tissue-specific localization and regulation of the epithiospecifier protein in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2007, 64, 173-185.	2.0	59
31	The Defense Metabolite, Allyl Glucosinolate, Modulates <i>Arabidopsis thaliana</i> Biomass Dependent upon the Endogenous Glucosinolate Pathway. <i>Frontiers in Plant Science</i> , 2016, 7, 774.	1.7	56
32	Analysis and Quantification of Glucosinolates. <i>Current Protocols in Plant Biology</i> , 2016, 1, 385-409.	2.8	53
33	Mixtures of plant secondary metabolites. , 2012, , 56-77.		50
34	<i>Arabidopsis</i> sulfurtransferases: investigation of their function during senescence and in cyanide detoxification. <i>Planta</i> , 2003, 217, 1-10.	1.6	48
35	Reassess the <i>t</i> -Test: Interact with All Your Data via ANOVA. <i>Plant Cell</i> , 2015, 27, 2088-2094.	3.1	48
36	Metabolic engineering of <i>Synechocystis</i> sp. PCC 6803 for the production of aromatic amino acids and derived phenylpropanoids. <i>Metabolic Engineering</i> , 2020, 57, 129-139.	3.6	46

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37	<i>Arabidopsis thaliana</i> transcription factors MYB28 and MYB29 shape ammonium stress responses by regulating Fe homeostasis. <i>New Phytologist</i> , 2021, 229, 1021-1035.	3.5	43
38	A thiocyanate-forming protein generates multiple products upon allylglucosinolate breakdown in <i>Thlaspi arvense</i> . <i>Phytochemistry</i> , 2011, 72, 1699-1709.	1.4	42
39	Arabinogalactan Glycosyltransferases Target to a Unique Subcellular Compartment That May Function in Unconventional Secretion in Plants. <i>Traffic</i> , 2014, 15, 1219-1234.	1.3	41
40	Coordination of Glucosinolate Biosynthesis and Turnover Under Different Nutrient Conditions. <i>Frontiers in Plant Science</i> , 2019, 10, 1560.	1.7	41
41	An <i>Arabidopsis</i> TIR-Lectin Two-Domain Protein Confers Defense Properties against <i>Tetranychus urticae</i> . <i>Plant Physiology</i> , 2019, 179, 1298-1314.	2.3	38
42	Nitrogen is essential macronutrient and signal controlling flowering time. <i>Physiologia Plantarum</i> , 2018, 162, 251-260.	2.6	36
43	How to discover a metabolic pathway? An update on gene identification in aliphatic glucosinolate biosynthesis, regulation and transport. <i>Biological Chemistry</i> , 2014, 395, 529-543.	1.2	35
44	<i>Arabidopsis gulliver1/superroot2</i> identifies a metabolic basis for auxin and brassinosteroid synergy. <i>Plant Journal</i> , 2014, 80, 797-808.	2.8	35
45	Tat proteins as novel thylakoid membrane anchors organize a biosynthetic pathway in chloroplasts and increase product yield 5-fold. <i>Metabolic Engineering</i> , 2017, 44, 108-116.	3.6	34
46	Diverse Allyl Glucosinolate Catabolites Independently Influence Root Growth and Development. <i>Plant Physiology</i> , 2020, 183, 1376-1390.	2.3	34
47	Insights into the community structure and lifestyle of the fungal root endophytes of tomato by combining amplicon sequencing and isolation approaches with phytohormone profiling. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	31
48	Specificity of MYB interactions relies on motifs in ordered and disordered contexts. <i>Nucleic Acids Research</i> , 2019, 47, 9592-9608.	6.5	30
49	Dynamic Modeling of Indole Glucosinolate Hydrolysis and Its Impact on Auxin Signaling. <i>Frontiers in Plant Science</i> , 2018, 9, 550.	1.7	27
50	Comparison of the Relative Potential for Epigenetic and Genetic Variation To Contribute to Trait Stability. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1733-1746.	0.8	25
51	PROTEIN PHOSPHATASE 2A Controls <i>Botrytis cinerea</i> Resistance and Developmental Leaf Senescence. <i>Plant Physiology</i> , 2020, 182, 1161-1181.	2.3	25
52	Defining optimal electron transfer partners for light-driven cytochrome P450 reactions. <i>Metabolic Engineering</i> , 2019, 55, 33-43.	3.6	24
53	Unravelling Protein-Protein Interaction Networks Linked to Aliphatic and Indole Glucosinolate Biosynthetic Pathways in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 2028.	1.7	21
54	Sulfur-Containing Secondary Metabolites and Their Role in Plant Defense. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 201-222.	1.0	17

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55	Copper toxicity affects indolic glucosinolates and gene expression of key enzymes for their biosynthesis in Chinese cabbage. <i>Archives of Agronomy and Soil Science</i> , 2020, 66, 1288-1301.	1.3	17
56	Differential partitioning of thiols and glucosinolates between shoot and root in Chinese cabbage upon excess zinc exposure. <i>Journal of Plant Physiology</i> , 2020, 244, 153088.	1.6	17
57	Induction and Priming of Plant Defense by Root-Associated Insect-Pathogenic Fungi. <i>Journal of Chemical Ecology</i> , 2021, 47, 112-122.	0.9	17
58	Sulfur metabolism in <i>Allium cepa</i> is hardly affected by chloride and sulfate salinity. <i>Archives of Agronomy and Soil Science</i> , 2019, 65, 945-956.	1.3	16
59	Complex Environments Interact With Plant Development to Shape Glucosinolate Profiles. <i>Advances in Botanical Research</i> , 2016, 80, 15-30.	0.5	15
60	Investigation of the multifunctional gene AOP3 expands the regulatory network fine-tuning glucosinolate production in Arabidopsis. <i>Frontiers in Plant Science</i> , 2015, 6, 762.	1.7	14
61	IDomainSpotter: Compositional bias reveals domains in long disordered protein regions—Insights from transcription factors. <i>Protein Science</i> , 2020, 29, 169-183.	3.1	14
62	Heterologous microProtein expression identifies LITTLE NINJA, a dominant regulator of jasmonic acid signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26197-26205.	3.3	14
63	Metabolic Changes and Increased Levels of Bioactive Compounds in White Radish (<i>Raphanus sativus</i> L.) Tj ETQq1 1,0,784314 rgBT /O	1.3	11
64	Enzymatic Activity of the Arabidopsis Sulfurtransferase Resides in the C-Terminal Domain But Is Boosted by the N-Terminal Domain and the Linker Peptide in the Full- Length Enzyme. <i>Biological Chemistry</i> , 2002, 383, 1363-72.	1.2	9
65	<i>CB5C</i> affects the glucosinolate profile in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2016, 11, e1160189.	1.2	9
66	Improving analytical methods for protein-protein interaction through implementation of chemically inducible dimerization. <i>Scientific Reports</i> , 2016, 6, 27766.	1.6	6
67	Characterization of Top Leader Elongation in Nordmann Fir (<i>Abies nordmanniana</i>). <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1354-1361.	2.8	6
68	Evolution of A bHLH Interaction Motif. <i>International Journal of Molecular Sciences</i> , 2021, 22, 447.	1.8	5
69	Root-type ferredoxin-NADP oxidoreductase isoforms in <i>Arabidopsis thaliana</i> : Expression patterns, location and stress responses. <i>Plant, Cell and Environment</i> , 2021, 44, 548-558.	2.8	3
70	Cytosolic phosphofructokinases are important for sugar homeostasis in leaves of <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2022, 129, 37-52.	1.4	3