

Meike Burow

List of Publications by Year in descending order

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70
papers

5,040
citations

94433

37
h-index

95266

68
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all docs

76
docs citations

76
times ranked

5272
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytosolic phosphofructokinases are important for sugar homeostasis in leaves of <i>Arabidopsis thaliana</i> . <i>Annals of Botany</i> , 2022, 129, 37-52.	2.9	3
2	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.	5.7	3
3	Induction and Priming of Plant Defense by Root-Associated Insect-Pathogenic Fungi. <i>Journal of Chemical Ecology</i> , 2021, 47, 112-122.	1.8	17
4	<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.	7.3	43
5	Evolution of A bHLH Interaction Motif. <i>International Journal of Molecular Sciences</i> , 2021, 22, 447.	4.1	5
6	IDDomainSpotter: Compositional bias reveals domains in long disordered protein regions—Insights from transcription factors. <i>Protein Science</i> , 2020, 29, 169-183.	7.6	14
7	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.	2.6	17
8	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.	7.0	46
9	PROTEIN PHOSPHATASE 2A- $\hat{3}$ Controls <i>Botrytis cinerea</i> Resistance and Developmental Leaf Senescence. <i>Plant Physiology</i> , 2020, 182, 1161-1181.	4.8	25
10	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.	3.5	17
11	Glucosinolate structural diversity, identification, chemical synthesis and metabolism in plants. <i>Phytochemistry</i> , 2020, 169, 112100.	2.9	315
12	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.	7.1	14
13	Diverse Allyl Glucosinolate Catabolites Independently Influence Root Growth and Development. <i>Plant Physiology</i> , 2020, 183, 1376-1390.	4.8	34
14	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, .	2.7	31
15	Specificity of MYB interactions relies on motifs in ordered and disordered contexts. <i>Nucleic Acids Research</i> , 2019, 47, 9592-9608.	14.5	30
16	R2R3 MYB Transcription Factors—Functions outside the DNA-Binding Domain. <i>Trends in Plant Science</i> , 2019, 24, 934-946.	8.8	109
17	Metabolic Changes and Increased Levels of Bioactive Compounds in White Radish (<i>Raphanus sativus</i> L.) Tj ETQq1 1,0,784314 rgBT /Ove	3.0	11
18	Defining optimal electron transfer partners for light-driven cytochrome P450 reactions. <i>Metabolic Engineering</i> , 2019, 55, 33-43.	7.0	24

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19	Characterization of Top Leader Elongation in Nordmann Fir (<i>Abies nordmanniana</i>). <i>Journal of Plant Growth Regulation</i> , 2019, 38, 1354-1361.	5.1	6
20	An Arabidopsis TIR-Lectin Two-Domain Protein Confers Defense Properties against <i>Tetranychus urticae</i> . <i>Plant Physiology</i> , 2019, 179, 1298-1314.	4.8	38
21	Coordination of Glucosinolate Biosynthesis and Turnover Under Different Nutrient Conditions. <i>Frontiers in Plant Science</i> , 2019, 10, 1560.	3.6	41
22	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.	2.6	16
23	Comparison of the Relative Potential for Epigenetic and Genetic Variation To Contribute to Trait Stability. <i>C3: Genes, Genomes, Genetics</i> , 2018, 8, 1733-1746.	1.8	25
24	Nitrogen – essential macronutrient and signal controlling flowering time. <i>Physiologia Plantarum</i> , 2018, 162, 251-260.	5.2	36
25	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.	5.2	69
26	Dynamic Modeling of Indole Glucosinolate Hydrolysis and Its Impact on Auxin Signaling. <i>Frontiers in Plant Science</i> , 2018, 9, 550.	3.6	27
27	An NPF transporter exports a central monoterpene indole alkaloid intermediate from the vacuole. <i>Nature Plants</i> , 2017, 3, 16208.	9.3	123
28	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.	7.1	109
29	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.	7.0	34
30	Unravelling Protein-Protein Interaction Networks Linked to Aliphatic and Indole Glucosinolate Biosynthetic Pathways in Arabidopsis. <i>Frontiers in Plant Science</i> , 2017, 8, 2028.	3.6	21
31	Transcriptome and Metabolite Changes during Hydrogen Cyanamide-Induced Floral Bud Break in Sweet Cherry. <i>Frontiers in Plant Science</i> , 2017, 8, 1233.	3.6	81
32	An evolutionarily young defense metabolite influences the root growth of plants via the ancient TOR signaling pathway. <i>ELife</i> , 2017, 6, .	6.0	84
33	Complex Environments Interact With Plant Development to Shape Glucosinolate Profiles. <i>Advances in Botanical Research</i> , 2016, 80, 15-30.	1.1	15
34	The Defense Metabolite, Allyl Glucosinolate, Modulates Arabidopsis thaliana Biomass Dependent upon the Endogenous Glucosinolate Pathway. <i>Frontiers in Plant Science</i> , 2016, 7, 774.	3.6	56
35	Genome Wide Association Mapping in Arabidopsis thaliana Identifies Novel Genes Involved in Linking Allyl Glucosinolate to Altered Biomass and Defense. <i>Frontiers in Plant Science</i> , 2016, 7, 1010.	3.6	62
36	Improving analytical methods for protein-protein interaction through implementation of chemically inducible dimerization. <i>Scientific Reports</i> , 2016, 6, 27766.	3.3	6

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37	Fusion of Ferredoxin and Cytochrome P450 Enables Direct Light-Driven Biosynthesis. <i>ACS Chemical Biology</i> , 2016, 11, 1862-1869.	3.4	67
38	<i>CBS5C</i> affects the glucosinolate profile in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2016, 11, e1160189.	2.4	9
39	Analysis and Quantification of Glucosinolates. <i>Current Protocols in Plant Biology</i> , 2016, 1, 385-409.	2.8	53
40	Metabolic engineering of light-driven cytochrome P450 dependent pathways into <i>Synechocystis</i> sp. PCC 6803. <i>Metabolic Engineering</i> , 2016, 33, 1-11.	7.0	66
41	Natural variation in cross-talk between glucosinolates and onset of flowering in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 697.	3.6	60
42	Investigation of the multifunctional gene AOP3 expands the regulatory network fine-tuning glucosinolate production in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2015, 6, 762.	3.6	14
43	Regulation of MYB and bHLH Transcription Factors: A Glance at the Protein Level. <i>Molecular Plant</i> , 2015, 8, 378-388.	8.3	141
44	Reassess the <i>t</i> Test: Interact with All Your Data via ANOVA. <i>Plant Cell</i> , 2015, 27, 2088-2094.	6.6	48
45	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.	8.3	62
46	Arabinogalactan Glycosyltransferases Target to a Unique Subcellular Compartment That May Function in Unconventional Secretion in Plants. <i>Traffic</i> , 2014, 15, 1219-1234.	2.7	41
47	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.	2.5	35
48	<i>Arabidopsis gulliver1</i> identifies a metabolic basis for auxin and brassinosteroid synergy. <i>Plant Journal</i> , 2014, 80, 797-808.	5.7	35
49	Integration of Biosynthesis and Long-Distance Transport Establish Organ-Specific Glucosinolate Profiles in Vegetative <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 3133-3145.	6.6	170
50	Mixtures of plant secondary metabolites. , 2012, , 56-77.		50
51	Evolution of specifier proteins in glucosinolate-containing plants. <i>BMC Evolutionary Biology</i> , 2012, 12, 127.	3.2	87
52	NRT/PTR transporters are essential for translocation of glucosinolate defence compounds to seeds. <i>Nature</i> , 2012, 488, 531-534.	27.8	429
53	A thiocyanate-forming protein generates multiple products upon allylglucosinolate breakdown in <i>Thlaspi arvense</i> . <i>Phytochemistry</i> , 2011, 72, 1699-1709.	2.9	42
54	Regulatory networks of glucosinolates shape <i>Arabidopsis thaliana</i> fitness. <i>Current Opinion in Plant Biology</i> , 2010, 13, 347-352.	7.1	81

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55	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.	4.8	226
56	Glucosinolate Breakdown in Arabidopsis: Mechanism, Regulation and Biological Significance. <i>The Arabidopsis Book</i> , 2010, 8, e0134.	0.5	286
57	The Genetic Basis of Constitutive and Herbivore-Induced ESP-Independent Nitrile Formation in Arabidopsis. <i>Plant Physiology</i> , 2009, 149, 561-574.	4.8	148
58	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.	8.3	155
59	Regulation and function of specifier proteins in plants. <i>Phytochemistry Reviews</i> , 2009, 8, 87-99.	6.5	72
60	Formation of Simple Nitriles upon Glucosinolate Hydrolysis Affects Direct and Indirect Defense Against the Specialist Herbivore, <i>Pieris rapae</i> . <i>Journal of Chemical Ecology</i> , 2008, 34, 1311-1321.	1.8	115
61	ESP and ESM1 mediate indol-3-acetonitrile production from indol-3-ylmethyl glucosinolate in Arabidopsis. <i>Phytochemistry</i> , 2008, 69, 663-671.	2.9	90
62	Sulfur-Containing Secondary Metabolites and Their Role in Plant Defense. <i>Advances in Photosynthesis and Respiration</i> , 2008, , 201-222.	1.0	17
63	Tipping the Scales—Specifier Proteins in Glucosinolate Hydrolysis. <i>IUBMB Life</i> , 2007, 59, 744-751.	3.4	86
64	Cell- and tissue-specific localization and regulation of the epithiospecifier protein in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2007, 64, 173-185.	3.9	59
65	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.	4.7	129
66	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.	5.7	243
67	Glucosinolate hydrolysis in <i>Lepidium sativum</i> —identification of the thiocyanate-forming protein. <i>Plant Molecular Biology</i> , 2006, 63, 49-61.	3.9	110
68	Altered Glucosinolate Hydrolysis in Genetically Engineered Arabidopsis thaliana and its Influence on the Larval Development of <i>Spodoptera littoralis</i> . <i>Journal of Chemical Ecology</i> , 2006, 32, 2333-2349.	1.8	139
69	Arabidopsis sulfurtransferases: investigation of their function during senescence and in cyanide detoxification. <i>Planta</i> , 2003, 217, 1-10.	3.2	48
70	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.	2.5	9