Rita Zrenner

List of Publications by Year
in descending order

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45	4,559	172386	233338
papers	citations	29 h-index	45 g-index

47	47	47	5566
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	<scp>M</scp>ercator: a fast and simple web server for genome scale functional annotation of plant sequence data. Plant, Cell and Environment, 2014, 37, 1250-1258.	2.8	575
2	PYRIMIDINE AND PURINE BIOSYNTHESIS AND DEGRADATION IN PLANTS. Annual Review of Plant Biology, 2006, 57, 805-836.	8.6	492
3	Evidence of the crucial role of sucrose synthase for sink strength using transgenic potato plants (Solanum tuberosum L.). Plant Journal, 1995, 7, 97-107.	2.8	482
4	Analysis of the sucrose synthase gene family in Arabidopsis. Plant Journal, 2007, 49, 810-828.	2.8	280
5	A moderate decrease of plastid aldolase activity inhibits photosynthesis, alters the levels of sugars and starch, and inhibits growth of potato plants. Plant Journal, 1998, 14, 147-157.	2.8	233
6	UV-B-Induced Secondary Plant Metabolites - Potential Benefits for Plant and Human Health. Critical Reviews in Plant Sciences, 2012, 31, 229-240.	2.7	222
7	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.	1.5	201
8	Soluble acid invertase determines the hexose-to-sucrose ratio in cold-stored potato tubers. Planta, 1996, 198, 246-52.	1.6	173
9	Vegetable Grafting: The Implications of a Growing Agronomic Imperative for Vegetable Fruit Quality and Nutritive Value. Frontiers in Plant Science, 2017, 8, 741.	1.7	172
10	Decreased expression of two key enzymes in the sucrose biosynthesis pathway, cytosolic fructose-1,6-bisphosphatase and sucrose phosphate synthase, has remarkably different consequences for photosynthetic carbon metabolism in transgenic Arabidopsis thaliana. Plant Journal, 2000, 23, 759-770.	2.8	146
11	Analysis of the expression of potato uridinediphosphate-glucose pyrophosphorylase and its inhibition by antisense RNA. Planta, 1993, 190, 247-52.	1.6	133
12	Reduction of the cytosolic fructose-1,6-bisphosphatase in transgenic potato plants limits photosynthetic sucrose biosynthesis with no impact on plant growth and tuber yield. Plant Journal, 1996, 9, 671-681.	2.8	107
13	Changes in aldolase activity in wildâ€type potato plants are important for acclimation to growth irradiance and carbon dioxide concentration, because plastid aldolase exerts control over the ambient rate of photosynthesis across a range of growth conditions. Plant Journal, 1999, 17, 479-489.	2.8	101
14	Comparison of the effect of rapidly and gradually developing water-stress on carbohydrate metabolism in spinach leaves. Plant, Cell and Environment, 1991, 14, 939-946.	2.8	94
15	A functional analysis of the pyrimidine catabolic pathway in Arabidopsis. New Phytologist, 2009, 183, 117-132.	3.5	86
16	Manipulation of sink-source relations in transgenic plants. Plant, Cell and Environment, 1994, 17, 649-658.	2.8	78
17	Genotypic Variation of the Glucosinolate Profile in Pak Choi (Brassica rapa ssp. chinensis). Journal of Agricultural and Food Chemistry, 2013, 61, 1943-1953.	2.4	74
18	The Presequence of Arabidopsis Serine Hydroxymethyltransferase SHM2 Selectively Prevents Import into Mesophyll Mitochondria Â Â. Plant Physiology, 2011, 157, 1711-1720.	2.3	67

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19	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.	1.8	67
20	Purine and pyrimidine biosynthesis in higher plants. Physiologia Plantarum, 2003, 117, 297-304.	2.6	66
21	Interaction of Moderate UV-B Exposure and Temperature on the Formation of Structurally Different Flavonol Glycosides and Hydroxycinnamic Acid Derivatives in Kale (Brassica oleracea var.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.4	65
22	Influence of Light and Temperature on Gene Expression Leading to Accumulation of Specific Flavonol Glycosides and Hydroxycinnamic Acid Derivatives in Kale (Brassica oleracea var. sabellica). Frontiers in Plant Science, 2016, 7, 326.	1.7	61
23	Molecular cloning, characterization and expression analysis of isoforms encoding tonoplast-bound proton-translocating inorganic pyrophosphatase in tobacco. Plant Molecular Biology, 1995, 29, 833-840.	2.0	49
24	Functional Analysis of the Pyrimidine de Novo Synthesis Pathway in Solanaceous Species. Plant Physiology, 2005, 138, 1926-1938.	2.3	46
25	Functions of Chloroplastic Adenylate Kinases in Arabidopsis. Plant Physiology, 2008, 146, 323-324.	2.3	44
26	Similar temperature requirement for sugar accumulation and for the induction of new forms of sucrose phosphate synthase and amylase in cold-stored potato tubers. Plant, Cell and Environment, 1998, 21, 127-138.	2.8	38
27	Higher biomass accumulation by increasing phosphoribosylpyrophosphate synthetase activity in Arabidopsis thaliana and Nicotiana tabacum. Plant Biotechnology Journal, 2008, 6, 281-294.	4.1	35
28	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.	2.8	35
29	Rootstock Sub-Optimal Temperature Tolerance Determines Transcriptomic Responses after Long-Term Root Cooling in Rootstocks and Scions of Grafted Tomato Plants. Frontiers in Plant Science, 2017, 8, 911.	1.7	32
30	Arabidopsis thaliana nucleosidase mutants provide new insights into nucleoside degradation. New Phytologist, 2011, 191, 349-359.	3.5	31
31	The Rhizoctonia solani AG1-IB (isolate 7/3/14) transcriptome during interaction with the host plant lettuce (Lactuca sativa L.). PLoS ONE, 2017, 12, e0177278.	1.1	28
32	Molecular analysis of de novo pyrimidine synthesis in solanaceous species. Plant Molecular Biology, 2002, 50, 393-403.	2.0	27
33	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.	2.8	23
34	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.	1.6	23
35	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.	2.8	22
36	Necrotrophic lifestyle of Rhizoctonia solani AG3-PT during interaction with its host plant potato as revealed by transcriptome analysis. Scientific Reports, 2020, 10, 12574.	1.6	21

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37	Tissue-specific signatures of metabolites and proteins in asparagus roots and exudates. Horticulture Research, 2021, 8, 86.	2.9	21
38	Species-Specific Impact of Fusarium Infection on the Root and Shoot Characteristics of Asparagus. Pathogens, 2020, 9, 509.	1.2	16
39	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.	1.6	15
40	Transcriptional Changes in Potato Sprouts upon Interaction with Rhizoctonia solani Indicate Pathogen-Induced Interference in the Defence Pathways of Potato. International Journal of Molecular Sciences, 2021, 22, 3094.	1.8	14
41	Metabolic Engineering of Aliphatic Glucosinolates in Hairy Root Cultures of Arabidopsis thaliana. Plant Molecular Biology Reporter, 2015, 33, 598-608.	1.0	12
42	Draft genome sequence of the potato pathogen Rhizoctonia solani AG3-PT isolate Ben3. Archives of Microbiology, 2017, 199, 1065-1068.	1.0	12
43	A comprehensive analysis of the Lactuca sativa, L. transcriptome during different stages of the compatible interaction with Rhizoctonia solani. Scientific Reports, 2019, 9, 7221.	1.6	11
44	UV-B Elicitation of Secondary Plant Metabolites. Springer Series in Materials Science, 2016, , 387-414.	0.4	9
45	Genome Analyses of the Less Aggressive Rhizoctonia solani AG1-IB Isolates 1/2/21 and O8/2 Compared to the Reference AG1-IB Isolate 7/3/14. Journal of Fungi (Basel, Switzerland), 2021, 7, 832.	1.5	5