

# Ute Roessner

## List of Publications by Citations

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191  
papers

12,469  
citations

52  
h-index

109  
g-index

213  
ext. papers

14,559  
ext. citations

6.6  
avg, IF

6.29  
L-index

#	Paper	IF	Citations
191	Technical advance: simultaneous analysis of metabolites in potato tuber by gas chromatography-mass spectrometry. <i>Plant Journal</i> , <b>2000</b> , 23, 131-42	6.9	959
190	A historical overview of natural products in drug discovery. <i>Metabolites</i> , <b>2012</b> , 2, 303-36	5.6	887
189	Metabolic profiling allows comprehensive phenotyping of genetically or environmentally modified plant systems. <i>Plant Cell</i> , <b>2001</b> , 13, 11-29	11.6	877
188	Potential of metabolomics as a functional genomics tool. <i>Trends in Plant Science</i> , <b>2004</b> , 9, 418-25	13.1	627
187	Comprehensive metabolic profiling and phenotyping of interspecific introgression lines for tomato improvement. <i>Nature Biotechnology</i> , <b>2006</b> , 24, 447-54	44.5	619
186	GC-MS libraries for the rapid identification of metabolites in complex biological samples. <i>FEBS Letters</i> , <b>2005</b> , 579, 1332-7	3.8	504
185	The genome of <i>Chenopodium quinoa</i> . <i>Nature</i> , <b>2017</b> , 542, 307-312	50.4	345
184	Metabolic responses to salt stress of barley ( <i>Hordeum vulgare</i> L.) cultivars, Sahara and Clipper, which differ in salinity tolerance. <i>Journal of Experimental Botany</i> , <b>2009</b> , 60, 4089-103	7	318
183	Enzymes of glycolysis are functionally associated with the mitochondrion in <i>Arabidopsis</i> cells. <i>Plant Cell</i> , <b>2003</b> , 15, 2140-51	11.6	305
182	Metabolic profiling of transgenic tomato plants overexpressing hexokinase reveals that the influence of hexose phosphorylation diminishes during fruit development. <i>Plant Physiology</i> , <b>2003</b> , 133, 84-99	6.6	298
181	Drought responses of leaf tissues from wheat cultivars of differing drought tolerance at the metabolite level. <i>Molecular Plant</i> , <b>2012</b> , 5, 418-29	14.4	282
180	Parallel analysis of transcript and metabolic profiles: a new approach in systems biology. <i>EMBO Reports</i> , <b>2003</b> , 4, 989-93	6.5	267
179	A proposed framework for the description of plant metabolomics experiments and their results. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 1601-6	44.5	260
178	Analysis of the compartmentation of glycolytic intermediates, nucleotides, sugars, organic acids, amino acids, and sugar alcohols in potato tubers using a nonaqueous fractionation method. <i>Plant Physiology</i> , <b>2001</b> , 127, 685-700	6.6	233
177	Facile synthesis, stabilization, and anti-bacterial performance of discrete Ag nanoparticles using <i>Medicago sativa</i> seed exudates. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 353, 433-44	9.3	213
176	Plant metabolomics reveals conserved and divergent metabolic responses to salinity. <i>Physiologia Plantarum</i> , <b>2008</b> , 132, 209-19	4.6	201
175	A combined reduction in activity of starch synthases II and III of potato has novel effects on the starch of tubers. <i>Plant Journal</i> , <b>1999</b> , 17, 251-261	6.9	193

174	An investigation of boron toxicity in barley using metabolomics. <i>Plant Physiology</i> , <b>2006</b> , 142, 1087-101	6.6	158
173	High-Resolution Metabolic Phenotyping of Genetically and Environmentally Diverse Potato Tuber Systems. Identification of Phenocopies. <i>Plant Physiology</i> , <b>2001</b> , 127, 749-764	6.6	157
172	Insights Into Oxidized Lipid Modification in Barley Roots as an Adaptation Mechanism to Salinity Stress. <i>Frontiers in Plant Science</i> , <b>2020</b> , 11, 1	6.2	153
171	Mass spectrometry imaging for plant biology: a review. <i>Phytochemistry Reviews</i> , <b>2016</b> , 15, 445-488	7.7	149
170	Normalizing and integrating metabolomics data. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 10768-76	7.8	148
169	Metabolite profiling reveals distinct changes in carbon and nitrogen metabolism in phosphate-deficient barley plants ( <i>Hordeum vulgare</i> L.). <i>Plant and Cell Physiology</i> , <b>2008</b> , 49, 691-703	4.9	130
168	What is metabolomics all about?. <i>BioTechniques</i> , <b>2009</b> , 46, 363-5	2.5	120
167	Kinetics of labelling of organic and amino acids in potato tubers by gas chromatography-mass spectrometry following incubation in (13)C labelled isotopes. <i>Plant Journal</i> , <b>2004</b> , 39, 668-79	6.9	113
166	The sucrose transporter StSUT1 localizes to sieve elements in potato tuber phloem and influences tuber physiology and development. <i>Plant Physiology</i> , <b>2003</b> , 131, 102-13	6.6	109
165	Antisense Inhibition of Threonine Synthase Leads to High Methionine Content in Transgenic Potato Plants. <i>Plant Physiology</i> , <b>2001</b> , 127, 792-802	6.6	106
164	Optimal nutrient exchange and immune responses operate in partner specificity in the cnidarian-dinoflagellate symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13194-13199	11.5	103
163	Cell-Type-Specific H <sup>+</sup> -ATPase Activity in Root Tissues Enables K <sup>+</sup> Retention and Mediates Acclimation of Barley ( <i>Hordeum vulgare</i> ) to Salinity Stress. <i>Plant Physiology</i> , <b>2016</b> , 172, 2445-2458	6.6	99
162	Minimum reporting standards for plant biology context information in metabolomic studies. <i>Metabolomics</i> , <b>2007</b> , 3, 195-201	4.7	96
161	Comprehensive profiling and quantitation of amine group containing metabolites. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7523-30	7.8	92
160	Overexpression of the sucrose transporter SoSUT1 in potato results in alterations in leaf carbon partitioning and in tuber metabolism but has little impact on tuber morphology. <i>Planta</i> , <b>2003</b> , 217, 158-67	4.7	87
159	Whole-genome mapping of agronomic and metabolic traits to identify novel quantitative trait Loci in bread wheat grown in a water-limited environment. <i>Plant Physiology</i> , <b>2013</b> , 162, 1266-81	6.6	86
158	The response of the maize nitrate transport system to nitrogen demand and supply across the lifecycle. <i>New Phytologist</i> , <b>2013</b> , 198, 82-94	9.8	85
157	<b>2007</b> ,		85

156	Antisense repression of hexokinase 1 leads to an overaccumulation of starch in leaves of transgenic potato plants but not to significant changes in tuber carbohydrate metabolism. <i>Plant Physiology</i> , <b>1999</b> , 121, 123-34	6.6	77
155	The sucrose analog palatinose leads to a stimulation of sucrose degradation and starch synthesis when supplied to discs of growing potato tubers. <i>Plant Physiology</i> , <b>2001</b> , 125, 1967-77	6.6	75
154	Root spatial metabolite profiling of two genotypes of barley ( <i>Hordeum vulgare</i> L.) reveals differences in response to short-term salt stress. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 3731-45	7	74
153	The contribution of plastidial phosphoglucomutase to the control of starch synthesis within the potato tuber. <i>Planta</i> , <b>2001</b> , 213, 418-26	4.7	72
152	Quantitative profiling of polar primary metabolites of two chickpea cultivars with contrasting responses to salinity. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2015</b> , 1000, 1-13	3.2	71
151	Proposed quantitative and alphanumeric metabolite identification metrics. <i>Metabolomics</i> , <b>2014</b> , 10, 1047-1049	4.7	70
150	Pyruvate decarboxylase provides growing pollen tubes with a competitive advantage in petunia. <i>Plant Cell</i> , <b>2005</b> , 17, 2355-68	11.6	70
149	Changes in the sugarcane metabolome with stem development. Are they related to sucrose accumulation?. <i>Plant and Cell Physiology</i> , <b>2007</b> , 48, 573-84	4.9	68
148	Antisense repression of cytosolic phosphoglucomutase in potato ( <i>Solanum tuberosum</i> ) results in severe growth retardation, reduction in tuber number and altered carbon metabolism. <i>Planta</i> , <b>2002</b> , 214, 510-20	4.7	67
147	Metabolite analysis for the comparison of irrigated and non-irrigated field grown tomato of varying genotype. <i>Metabolomics</i> , <b>2007</b> , 3, 289-295	4.7	66
146	De novo amino acid biosynthesis in potato tubers is regulated by sucrose levels. <i>Plant Physiology</i> , <b>2003</b> , 133, 683-92	6.6	64
145	Epidermal bladder cells confer salinity stress tolerance in the halophyte quinoa and <i>Atriplex</i> species. <i>Plant, Cell and Environment</i> , <b>2017</b> , 40, 1900-1915	8.4	61
144	Detection of QTL for metabolic and agronomic traits in wheat with adjustments for variation at genetic loci that affect plant phenology. <i>Plant Science</i> , <b>2015</b> , 233, 143-154	5.3	60
143	Profiling of polar metabolites in biological extracts using diamond hydride-based aqueous normal phase chromatography. <i>Journal of Separation Science</i> , <b>2009</b> , 32, 2273-80	3.4	60
142	Metabolic profiling and biochemical phenotyping of plant systems. <i>Plant Cell Reports</i> , <b>2002</b> , 21, 189-196	5.1	59
141	The impact of constitutive heterologous expression of a moss Na <sup>+</sup> transporter on the metabolomes of rice and barley. <i>Metabolomics</i> , <b>2007</b> , 3, 307-317	4.7	53
140	Advances in functional genomics for investigating salinity stress tolerance mechanisms in cereals. <i>Frontiers in Plant Science</i> , <b>2013</b> , 4, 123	6.2	52
139	Metabolite profiling of symbiont and host during thermal stress and bleaching in the coral <i>Acropora aspera</i> . <i>Coral Reefs</i> , <b>2017</b> , 36, 105-118	4.2	48

138	PyMS: a Python toolkit for processing of gas chromatography-mass spectrometry (GC-MS) data. Application and comparative study of selected tools. <i>BMC Bioinformatics</i> , <b>2012</b> , 13, 115	3.6	48
137	Rice suspension cultured cells are evaluated as a model system to study salt responsive networks in plants using a combined proteomic and metabolomic profiling approach. <i>Proteomics</i> , <b>2013</b> , 13, 2046-62	4.8	46
136	Characterization of ion contents and metabolic responses to salt stress of different Arabidopsis AtHKT1;1 genotypes and their parental strains. <i>Molecular Plant</i> , <b>2013</b> , 6, 350-68	14.4	45
135	Partner switching and metabolic flux in a model cnidarian-dinoflagellate symbiosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	43
134	Mechanisms associated with Fe-deficiency tolerance and signaling in shoots of <i>Pisum sativum</i> . <i>Physiologia Plantarum</i> , <b>2013</b> , 147, 381-95	4.6	41
133	LC-MS and GC-MS metabolite profiling of nickel(II) complexes in the latex of the nickel-hyperaccumulating tree <i>Sebertia acuminata</i> and identification of methylated aldaric acid as a new nickel(II) ligand. <i>Phytochemistry</i> , <b>2008</b> , 69, 240-51	4	41
132	Alleviation of salinity stress in plants by endophytic plant-fungal symbiosis: Current knowledge, perspectives and future directions. <i>Plant and Soil</i> , <b>2021</b> , 461, 219-244	4.2	40
131	Mapping carbon fate during bleaching in a model cnidarian symbiosis: the application of C metabolomics. <i>New Phytologist</i> , <b>2017</b> , 214, 1551-1562	9.8	37
130	Elemental and metabolite profiling of nickel hyperaccumulators from New Caledonia. <i>Phytochemistry</i> , <b>2012</b> , 81, 80-9	4	37
129	High-mass-resolution MALDI mass spectrometry imaging reveals detailed spatial distribution of metabolites and lipids in roots of barley seedlings in response to salinity stress. <i>Metabolomics</i> , <b>2018</b> , 14, 63	4.7	36
128	Elemental imaging of leaves from the metal hyperaccumulating plant <i>Noccaea caerulescens</i> shows different spatial distribution of Ni, Zn and Cd. <i>RSC Advances</i> , <b>2016</b> , 6, 2337-2344	3.7	36
127	A Quantitative Profiling Method of Phytohormones and Other Metabolites Applied to Barley Roots Subjected to Salinity Stress. <i>Frontiers in Plant Science</i> , <b>2016</b> , 7, 2070	6.2	34
126	Characterisation of HvALMT1 function in transgenic barley plants. <i>Functional Plant Biology</i> , <b>2011</b> , 38, 163-175	2.7	33
125	Metabolic profiling of transgenic wheat over-expressing the high-molecular-weight Dx5 glutenin subunit. <i>Metabolomics</i> , <b>2009</b> , 5, 239-252	4.7	32
124	Metabolomics of capsicum ripening reveals modification of the ethylene related-pathway and carbon metabolism. <i>Postharvest Biology and Technology</i> , <b>2014</b> , 89, 19-31	6.2	30
123	Genetic variation in the root growth response of barley genotypes to salinity stress. <i>Functional Plant Biology</i> , <b>2013</b> , 40, 516-530	2.7	30
122	Low doses of the neonicotinoid insecticide imidacloprid induce ROS triggering neurological and metabolic impairments in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 25840-25850	11.5	30
121	Salt-stress induced alterations in the root lipidome of two barley genotypes with contrasting responses to salinity. <i>Functional Plant Biology</i> , <b>2016</b> , 43, 207-219	2.7	29

120	Metabolic profiling of a transgenic Alzheimer model. <i>Metabolomics</i> , <b>2015</b> , 11, 477-486	4.7	27
119	A high-resolution HPLC-QqTOF platform using parallel reaction monitoring for in-depth lipid discovery and rapid profiling. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1026, 87-100	6.6	27
118	Transcriptional and metabolic profiles of stress-induced, embryogenic tobacco microspores. <i>Plant Molecular Biology</i> , <b>2007</b> , 63, 137-49	4.6	27
117	De novo transcriptome assembly and analysis of differentially expressed genes of two barley genotypes reveal root-zone-specific responses to salt exposure. <i>Scientific Reports</i> , <b>2016</b> , 6, 31558	4.9	27
116	C metabolomics reveals widespread change in carbon fate during coral bleaching. <i>Metabolomics</i> , <b>2017</b> , 14, 12	4.7	26
115	Morphological and metabolic responses to salt stress of rice ( <i>Oryza sativa</i> L.) cultivars which differ in salinity tolerance. <i>Plant Physiology and Biochemistry</i> , <b>2019</b> , 144, 427-435	5.4	26
114	Characterization of starch-debranching enzymes in pea embryos. <i>Plant Physiology</i> , <b>1998</b> , 118, 581-90	6.6	26
113	Feeding the Walls: How Does Nutrient Availability Regulate Cell Wall Composition?. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	26
112	Metabolite profiling of wheat ( <i>Triticum aestivum</i> L.) phloem exudate. <i>Plant Methods</i> , <b>2014</b> , 10, 27	5.8	24
111	Shooting control by brassinosteroids: metabolomic analysis and effect of brassinazole on <i>Malus prunifolia</i> , the Marubakaido apple rootstock. <i>Tree Physiology</i> , <b>2009</b> , 29, 607-20	4.2	24
110	High-Resolution Metabolic Phenotyping of Genetically and Environmentally Diverse Potato Tuber Systems. Identification of Phenocopies. <i>Plant Physiology</i> , <b>2001</b> , 127, 749-764	6.6	23
109	Opposite fates of the purine metabolite allantoin under water and nitrogen limitations in bread wheat. <i>Plant Molecular Biology</i> , <b>2019</b> , 99, 477-497	4.6	22
108	The use of metabolomics in the study of metals in biological systems. <i>Metallomics</i> , <b>2015</b> , 7, 29-38	4.5	22
107	EXIMS: an improved data analysis pipeline based on a new peak picking method for EXploring Imaging Mass Spectrometry data. <i>Bioinformatics</i> , <b>2015</b> , 31, 3198-206	7.2	22
106	Insights into lipidomic perturbations in zebrafish tissues upon exposure to microcystin-LR and microcystin-RR. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 14376-84	10.3	22
105	Increases of 3-phosphoglyceric acid in potato plants through antisense reduction of cytoplasmic phosphoglycerate mutase impairs photosynthesis and growth, but does not increase starch contents. <i>Plant, Cell and Environment</i> , <b>2002</b> , 25, 1133-1143	8.4	22
104	Inactivation of Mitochondrial Complex I Induces the Expression of a Twin Cysteine Protein that Targets and Affects Cytosolic, Chloroplastidic and Mitochondrial Function. <i>Molecular Plant</i> , <b>2016</b> , 9, 696-710	11.4	21
103	Metabolite Measurements <b>2009</b> , 39-69		21

102	Comparative metabolic and ionic profiling of two cultivars of <i>Stevia rebaudiana</i> Bert. (Bertoni) grown under salinity stress. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 129, 56-70	5.4	19
101	Phenotyping reproductive stage chilling and frost tolerance in wheat using targeted metabolome and lipidome profiling. <i>Metabolomics</i> , <b>2019</b> , 15, 144	4.7	17
100	Water availability moderates N fixation benefit from elevated [CO <sub>2</sub> ]: A 2-year free-air CO <sub>2</sub> enrichment study on lentil ( <i>Lens culinaris</i> MEDIK.) in a water limited agroecosystem. <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2418-2434	8.4	17
99	Genotypic Variation in the Root and Shoot Metabolite Profiles of Wheat ( <i>T. aestivum</i> L.) Indicate Sustained, Preferential Carbon Allocation as a Potential Mechanism in Phosphorus Efficiency. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 995	6.2	17
98	Plant metabolomics: Applications and opportunities for agricultural biotechnology <b>2012</b> , 67-81		17
97	Phenotypic and metabolic plasticity shapes life-history strategies under combinations of abiotic stresses. <i>Plant Direct</i> , <b>2019</b> , 3, e00113	3.3	17
96	Proteomic and metabolic profiling of rice suspension culture cells as a model to study abscisic acid signaling response pathways in plants. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 6623-34	5.6	16
95	Expression of a bacterial xylose isomerase in potato tubers results in an altered hexose composition and a consequent induction of metabolism. <i>Plant and Cell Physiology</i> , <b>2003</b> , 44, 1359-67	4.9	16
94	Spatio-Temporal Metabolite and Elemental Profiling of Salt Stressed Barley Seeds During Initial Stages of Germination by MALDI-MSI and $\mu$ -XRF Spectrometry. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 1139	6.2	15
93	Hyperaccumulation of zinc by <i>Noccaea caerulea</i> results in a cascade of stress responses and changes in the elemental profile. <i>Metallomics</i> , <b>2014</b> , 6, 1671-82	4.5	15
92	A Sieve-Raft Hypothesis for the regulation of endothelial fenestrations. <i>Computational and Structural Biotechnology Journal</i> , <b>2013</b> , 8, e201308003	6.8	15
91	Metabolic Profiling Allows Comprehensive Phenotyping of Genetically or Environmentally Modified Plant Systems. <i>Plant Cell</i> , <b>2001</b> , 13, 11	11.6	15
90	Identification of physiological changes and key metabolites coincident with postharvest internal browning of pineapple ( <i>Ananas comosus</i> L.) fruit. <i>Postharvest Biology and Technology</i> , <b>2018</b> , 137, 56-65	6.2	15
89	From common to rare Zingiberaceae plants - A metabolomics study using GC-MS. <i>Phytochemistry</i> , <b>2017</b> , 140, 141-150	4	14
88	RNA Catabolites Contribute to the Nitrogen Pool and Support Growth Recovery of Wheat. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 1539	6.2	14
87	A Golgi UDP-GlcNAc transporter delivers substrates for N-linked glycans and sphingolipids. <i>Nature Plants</i> , <b>2018</b> , 4, 792-801	11.5	14
86	Integrative Multi-omics Analyses of Barley Rootzones under Salinity Stress Reveal Two Distinctive Salt Tolerance Mechanisms. <i>Plant Communications</i> , <b>2020</b> , 1, 100031	9	13
85	Systems-based approaches enable identification of gene targets which improve the flavour profile of low-ethanol wine yeast strains. <i>Metabolic Engineering</i> , <b>2018</b> , 49, 178-191	9.7	13

84	Metabolomics, Standards, and Metabolic Modeling for Synthetic Biology in Plants. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2015</b> , 3, 167	5.8	13
83	Metabolomics The Combination of Analytical Biochemistry, Biology, and Informatics <b>2011</b> , 447-459		13
82	Determination of amino acids in urine of patients with prostate cancer and benign prostate growth. <i>European Journal of Cancer Prevention</i> , <b>2017</b> , 26, 131-134	2	12
81	MASTR-MS: a web-based collaborative laboratory information management system (LIMS) for metabolomics. <i>Metabolomics</i> , <b>2017</b> , 13, 14	4.7	12
80	Abiotic Stress and Metabolomics <b>2018</b> , 61-85		12
79	Metabolomics Tools for Natural Product Discovery. <i>Methods in Molecular Biology</i> , <b>2013</b> ,	1.4	12
78	Plant tissue extraction for metabolomics. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1055, 21-8	1.4	12
77	Diurnal Changes in Transcript and Metabolite Levels during the Iron Deficiency Response of Rice. <i>Rice</i> , <b>2017</b> , 10, 14	5.8	11
76	A tandem liquid chromatography-mass spectrometry (LC-MS) method for profiling small molecules in complex samples. <i>Metabolomics</i> , <b>2015</b> , 11, 1552-1562	4.7	11
75	Dietary intervention rescues myopathy associated with neurofibromatosis type 1. <i>Human Molecular Genetics</i> , <b>2018</b> , 27, 577-588	5.6	11
74	Metabolic Profiling of Plants by GC-MS <b>2013</b> , 1-23		11
73	Nitrogen assimilation system in maize is regulated by developmental and tissue-specific mechanisms. <i>Plant Molecular Biology</i> , <b>2016</b> , 92, 293-312	4.6	11
72	Single cell-type analysis of cellular lipid remodelling in response to salinity in the epidermal bladder cells of the model halophyte <i>Mesembryanthemum crystallinum</i> . <i>Plant, Cell and Environment</i> , <b>2018</b> , 41, 2390-2403	8.4	11
71	Beta-glucan-depleted, glycopeptide-rich extracts from Brewer's and Baker's yeast ( <i>Saccharomyces cerevisiae</i> ) lower interferon-gamma production by stimulated human blood cells in vitro. <i>Food Chemistry</i> , <b>2016</b> , 197, 761-8	8.5	10
70	Comparative spatial lipidomics analysis reveals cellular lipid remodelling in different developmental zones of barley roots in response to salinity. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 327-343	8.4	10
69	Exploratory analysis of high-throughput metabolomic data. <i>Metabolomics</i> , <b>2013</b> , 9, 1311-1320	4.7	9
68	Prospection and identification of nematotoxic compounds from <i>Canavalia ensiformis</i> seeds effective in the control of the root knot nematode <i>Meloidogyne incognita</i> . <i>Biotechnology Research and Innovation</i> , <b>2017</b> , 1, 87-100	10.1	9
67	Abiotic Stress and Metabolomics <b>2011</b> , 61-85		9



66	Antioxidant system status of cucumber plants under pesticides treatment. <i>Acta Physiologiae Plantarum</i> , <b>2020</b> , 42, 1	2.6	9
65	An Arabidopsis lipid map reveals differences between tissues and dynamic changes throughout development. <i>Plant Journal</i> , <b>2021</b> , 107, 287-302	6.9	9
64	Arabidopsis REI-LIKE proteins activate ribosome biogenesis during cold acclimation. <i>Scientific Reports</i> , <b>2021</b> , 11, 2410	4.9	9
63	Advances in high-throughput untargeted LCMS analysis for plant metabolomics <b>2015</b> , 58-71		8
62	Flicker light-induced retinal vasodilation is unaffected by inhibition of epoxyeicosatrienoic acids and prostaglandins in humans. <i>Investigative Ophthalmology and Visual Science</i> , <b>2014</b> , 55, 7007-13		8
61	Sampling and Sample Preparation39-82		8
60	Metabolomics in Humans and Other Mammals253-288		8
59	The Influence of Contrasting Microbial Lifestyles on the Pre-symbiotic Metabolite Responses of Eucalyptus grandis Roots. <i>Frontiers in Ecology and Evolution</i> , <b>2019</b> , 7,	3.7	7
58	Structural and functional measures of marine microbial communities: An experiment to assess implications for oil spill management. <i>Marine Pollution Bulletin</i> , <b>2018</b> , 131, 525-529	6.7	7
57	Unsupervised learning for exploring MALDI imaging mass spectrometry OmicsData <b>2014</b> ,		7
56	Phylogenetic analysis and functional characterisation of strictosidine synthase-like genes in Arabidopsis thaliana. <i>Functional Plant Biology</i> , <b>2010</b> , 36, 1098-1109	2.7	7
55	Cross-Platform Urine Metabolomics of Experimental Hyperglycemia in Type 2 Diabetes. <i>Journal of Diabetes &amp; Metabolism</i> , <b>2013</b> , 01,	0	7
54	Comparative metabolomics implicates threitol as a fungal signal supporting colonization of Armillaria luteobubalina on eucalypt roots. <i>Plant, Cell and Environment</i> , <b>2020</b> , 43, 374-386	8.4	7
53	Extraction of Plant Lipids for LC-MS-Based Untargeted Plant Lipidomics. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1778, 125-135	1.4	7
52	Transition from a maternal to external nitrogen source in maize seedlings. <i>Journal of Integrative Plant Biology</i> , <b>2017</b> , 59, 261-274	8.3	6
51	Phenotyping the Chilling and Freezing Responses of Young Microspore Stage Wheat Spikes Using Targeted Metabolome and Lipidome Profiling. <i>Cells</i> , <b>2020</b> , 9,	7.9	6
50	Metabolomic study reveals a selective accumulation of l-arginine in the d-ornithine treated tobacco cell suspension culture. <i>Process Biochemistry</i> , <b>2014</b> , 49, 140-147	4.8	6
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