

Joachim Kopka

List of Publications by Year in descending order

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Version: 2024-02-01

232
papers

30,943
citations

7087

78
h-index

4770

169
g-index

244
all docs

244
docs citations

244
times ranked

28725
citing authors

#	ARTICLE	IF	CITATIONS
1	Riboswitch-mediated inducible expression of an astaxanthin biosynthetic operon in plastids. <i>Plant Physiology</i> , 2022, 188, 637-652.	2.3	20
2	Carbon flux through photosynthesis and central carbon metabolism show distinct patterns between algae, C3 and C4 plants. <i>Nature Plants</i> , 2022, 8, 78-91.	4.7	49
3	The <i>Sporisorium reilianum</i> Effector Vag2 Promotes Head Smut Disease via Suppression of Plant Defense Responses. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 498.	1.5	1
4	Authenticity assessment of commercial bakery products with chia, flax and sesame seeds: Application of targeted and untargeted metabolomics results from seeds and lab-scale cookies. <i>Food Control</i> , 2022, 140, 109114.	2.8	1
5	Acclimatisation of guard cell metabolism to long-term salinity. <i>Plant, Cell and Environment</i> , 2021, 44, 870-884.	2.8	11
6	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase <scp>XTH19</scp> influences freezing tolerance after cold and sub-zero acclimation. <i>Plant, Cell and Environment</i> , 2021, 44, 915-930.	2.8	43
7	<i>Arabidopsis</i> REI-LIKE proteins activate ribosome biogenesis during cold acclimation. <i>Scientific Reports</i> , 2021, 11, 2410.	1.6	19
8	Global mapping of protein-metabolite interactions in <i>Saccharomyces cerevisiae</i> reveals that Ser-Leu dipeptide regulates phosphoglycerate kinase activity. <i>Communications Biology</i> , 2021, 4, 181.	2.0	32
9	Integration of relative metabolomics and transcriptomics time-course data in a metabolic model pinpoints effects of ribosome biogenesis defects on <i>Arabidopsis thaliana</i> metabolism. <i>Scientific Reports</i> , 2021, 11, 4787.	1.6	5
10	Unravelling Differences in Candidate Genes for Drought Tolerance in Potato (<i>Solanum tuberosum</i> L.) by Use of New Functional Microsatellite Markers. <i>Genes</i> , 2021, 12, 494.	1.0	11
11	Membrane-Enriched Proteomics Link Ribosome Accumulation and Proteome Reprogramming With Cold Acclimation in Barley Root Meristems. <i>Frontiers in Plant Science</i> , 2021, 12, 656683.	1.7	15
12	Physiological and molecular attributes contribute to high night temperature tolerance in cereals. <i>Plant, Cell and Environment</i> , 2021, 44, 2034-2048.	2.8	16
13	The Impact of Metabolic Scion-Rootstock Interactions in Different Grapevine Tissues and Phloem Exudates. <i>Metabolites</i> , 2021, 11, 349.	1.3	10
14	Univariate statistical analysis of gas chromatography-mass spectrometry fingerprints analyses. <i>Chemical Data Collections</i> , 2021, 33, 100719.	1.1	1
15	Transcriptional, hormonal, and metabolic changes in susceptible grape berries under powdery mildew infection. <i>Journal of Experimental Botany</i> , 2021, 72, 6544-6569.	2.4	24
16	Homologs of Circadian Clock Proteins Impact the Metabolic Switch Between Light and Dark Growth in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Frontiers in Plant Science</i> , 2021, 12, 675227.	1.7	7
17	Genome-Wide Approach to Identify Quantitative Trait Loci for Drought Tolerance in Tetraploid Potato (<i>Solanum tuberosum</i> L.). <i>International Journal of Molecular Sciences</i> , 2021, 22, 6123.	1.8	9
18	Spatially Enriched Paralog Rearrangements Argue Functionally Diverse Ribosomes Arise during Cold Acclimation in <i>Arabidopsis</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6160.	1.8	10

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19	Assessing Dynamic Changes of Taste-Related Primary Metabolism During Ripening of Durian Pulp Using Metabolomic and Transcriptomic Analyses. <i>Frontiers in Plant Science</i> , 2021, 12, 687799.	1.7	16
20	Plant chromatin, metabolism and development – an intricate crosstalk. <i>Current Opinion in Plant Biology</i> , 2021, 61, 102002.	3.5	19
21	Characterization of the Heat-Stable Proteome during Seed Germination in Arabidopsis with Special Focus on LEA Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8172.	1.8	12
22	Metabolic Profiling and Metabolite Correlation Network Analysis Reveal That <i>Fusarium solani</i> Induces Differential Metabolic Responses in <i>Lotus japonicus</i> and <i>Lotus tenuis</i> against Severe Phosphate Starvation. <i>Journal of Fungi (Basel, Switzerland)</i> , 2021, 7, 765.	1.5	7
23	Establishment of a GC ¹³ -positional isotopomer approach suitable for investigating metabolic fluxes in plant primary metabolism. <i>Plant Journal</i> , 2021, 108, 1213-1233.	2.8	18
24	Ion Homeostasis and Metabolome Analysis of Arabidopsis 14-3-3 Quadruple Mutants to Salt Stress. <i>Frontiers in Plant Science</i> , 2021, 12, 697324.	1.7	4
25	Differentiation of the High Night Temperature Response in Leaf Segments of Rice Cultivars with Contrasting Tolerance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 10451.	1.8	2
26	\$\$\$ext{COSNet}}_i\$\$\$: ComplexOme-Structural Network Interpreter used to study spatial enrichment in metazoan ribosomes. <i>BMC Bioinformatics</i> , 2021, 22, 605.	1.2	2
27	Cysteine and Methionine Biosynthetic Enzymes Have Distinct Effects on Seed Nutritional Quality and on Molecular Phenotypes Associated With Accumulation of a Methionine-Rich Seed Storage Protein in Rice. <i>Frontiers in Plant Science</i> , 2020, 11, 1118.	1.7	8
28	Can Metabolite- and Transcript-Based Selection for Drought Tolerance in <i>Solanum tuberosum</i> Replace Selection on Yield in Arid Environments?. <i>Frontiers in Plant Science</i> , 2020, 11, 1071.	1.7	8
29	Separation and Paired Proteome Profiling of Plant Chloroplast and Cytoplasmic Ribosomes. <i>Plants</i> , 2020, 9, 892.	1.6	12
30	Multi-omics reveals mechanisms of total resistance to extreme illumination of a desert alga. <i>Nature Plants</i> , 2020, 6, 1031-1043.	4.7	33
31	Season Affects Yield and Metabolic Profiles of Rice (<i>Oryza sativa</i>) under High Night Temperature Stress in the Field. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3187.	1.8	21
32	Systematic Review of Plant Ribosome Heterogeneity and Specialization. <i>Frontiers in Plant Science</i> , 2020, 11, 948.	1.7	60
33	Untargeted metabolomics as a hypothesis-generation tool in plant protection product discovery: Highlighting the potential of trehalose and glycerol metabolism of fungal conidiospores as novel targets. <i>Metabolomics</i> , 2020, 16, 79.	1.4	5
34	Comparative Metabolomics and Molecular Phylogenetics of Melon (<i>Cucumis melo</i> , Cucurbitaceae) Biodiversity. <i>Metabolites</i> , 2020, 10, 121.	1.3	35
35	Multiplexed Profiling and Data Processing Methods to Identify Temperature-Regulated Primary Metabolites Using Gas Chromatography Coupled to Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020, 2156, 203-239.	0.4	16
36	Underground isoleucine biosynthesis pathways in <i>E. coli</i> . <i>ELife</i> , 2020, 9, .	2.8	19

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37	Molecular signatures associated with increased freezing tolerance due to low temperature memory in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2019, 42, 854-873.	2.8	89
38	Iron-dependent metabolic responses of <i>Vicia faba</i> L. to salt stress. <i>Plant, Cell and Environment</i> , 2019, 42, 295-309.	2.8	22
39	Metabolic responses of rice source and sink organs during recovery from combined drought and heat stress in the field. <i>GigaScience</i> , 2019, 8, .	3.3	14
40	Effect of Senescence Phenotypes and Nitrate Availability on Wheat Leaf Metabolome during Grain Filling. <i>Agronomy</i> , 2019, 9, 305.	1.3	6
41	Discovery of food identity markers by metabolomics and machine learning technology. <i>Scientific Reports</i> , 2019, 9, 9697.	1.6	56
42	Unravelling the Metabolic and Hormonal Machinery During Key Steps of Somatic Embryogenesis: A Case Study in Coffee. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4665.	1.8	18
43	The fungal endophyte <i>Fusarium solani</i> provokes differential effects on the fitness of two <i>Lotus</i> species. <i>Plant Physiology and Biochemistry</i> , 2019, 144, 100-109.	2.8	12
44	Metabolomics Identifies a Biomarker Revealing In Vivo Loss of Functional β -Cell Mass Before Diabetes Onset. <i>Diabetes</i> , 2019, 68, 2272-2286.	0.3	28
45	Metabolic responses of rice cultivars with different tolerance to combined drought and heat stress under field conditions. <i>GigaScience</i> , 2019, 8, .	3.3	52
46	Both cold and sub-zero acclimation induce cell wall modification and changes in the extracellular proteome in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2019, 9, 2289.	1.6	51
47	Highly Resolved Systems Biology to Dissect the Etioplast-to-Chloroplast Transition in Tobacco Leaves. <i>Plant Physiology</i> , 2019, 180, 654-681.	2.3	51
48	Induced, Imprinted, and Primed Responses to Changing Environments: Does Metabolism Store and Process Information?. <i>Frontiers in Plant Science</i> , 2019, 10, 106.	1.7	63
49	Focus Issue Editorial: Synthetic Biology. <i>Plant Physiology</i> , 2019, 179, 772-774.	2.3	4
50	Imbalanced Regulation of Fungal Nutrient Transports According to Phosphate Availability in a Symbiosome Formed by Poplar, Sorghum, and <i>Rhizophagus irregularis</i> . <i>Frontiers in Plant Science</i> , 2019, 10, 1617.	1.7	23
51	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1800384.	1.5	173
52	The iron-stress activated RNA 1 (<i>IsaR1</i>) coordinates osmotic acclimation and iron starvation responses in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Environmental Microbiology</i> , 2018, 20, 2757-2768.	1.8	15
53	Plant Temperature Acclimation and Growth Rely on Cytosolic Ribosome Biogenesis Factor Homologs. <i>Plant Physiology</i> , 2018, 176, 2251-2276.	2.3	39
54	Comprehensive Metabolomics Studies of Plant Developmental Senescence. <i>Methods in Molecular Biology</i> , 2018, 1744, 339-358.	0.4	19

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55	Primed primary metabolism in systemic leaves: a functional systems analysis. <i>Scientific Reports</i> , 2018, 8, 216.	1.6	64
56	Editorial overview: Plant synthetic and systems biology. <i>Current Opinion in Biotechnology</i> , 2018, 49, viii-xi.	3.3	6
57	Metabolite and transcript markers for the prediction of potato drought tolerance. <i>Plant Biotechnology Journal</i> , 2018, 16, 939-950.	4.1	68
58	The <i>Synechocystis</i> sp. PCC 6803 Genome Encodes Up to Four 2-Phosphoglycolate Phosphatases. <i>Frontiers in Plant Science</i> , 2018, 9, 1718.	1.7	7
59	Oviposition by <i>Spodoptera exigua</i> on <i>Solanum dulcamara</i> Alters the Plant's Response to Herbivory and Impairs Larval Performance. <i>International Journal of Molecular Sciences</i> , 2018, 19, 4008.	1.8	12
60	Natural Variation in Freezing Tolerance and Cold Acclimation Response in <i>Arabidopsis thaliana</i> and Related Species. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 81-98.	0.8	16
61	Acquisition of Volatile Compounds by Gas Chromatography–Mass Spectrometry (GC-MS). <i>Methods in Molecular Biology</i> , 2018, 1778, 225-239.	0.4	20
62	<i>NLR</i> Mutations Suppressing Immune Hybrid Incompatibility and Their Effects on Disease Resistance. <i>Plant Physiology</i> , 2018, 177, 1152-1169.	2.3	21
63	<i>Polyamine oxidase 5</i> loss-of-function mutations in <i>Arabidopsis thaliana</i> trigger metabolic and transcriptional reprogramming and promote salt stress tolerance. <i>Plant, Cell and Environment</i> , 2017, 40, 527-542.	2.8	66
64	Impact of seasonal warming on overwintering and spring phenology of blackcurrant. <i>Environmental and Experimental Botany</i> , 2017, 140, 96-109.	2.0	21
65	Systems analysis of ethanol production in the genetically engineered cyanobacterium <i>Synechococcus</i> sp. PCC 7002. <i>Biotechnology for Biofuels</i> , 2017, 10, 56.	6.2	64
66	Isolation and characterization of three new PGPR and their effects on the growth of <i>Arabidopsis</i> and <i>Datura</i> plants. <i>Journal of Plant Interactions</i> , 2017, 12, 1-6.	1.0	45
67	Central metabolite and sterol profiling divides tobacco male gametophyte development and pollen tube growth into eight metabolic phases. <i>Plant Journal</i> , 2017, 92, 129-146.	2.8	40
68	Metabolic Flexibility Underpins Growth Capabilities of the Fastest Growing Alga. <i>Current Biology</i> , 2017, 27, 2559-2567.e3.	1.8	34
69	Integrated analysis of rice transcriptomic and metabolomic responses to elevated night temperatures identifies sensitivity- and tolerance-related profiles. <i>Plant, Cell and Environment</i> , 2017, 40, 121-137.	2.8	54
70	Rapid transcriptional and metabolic regulation of the deacclimation process in cold acclimated <i>Arabidopsis thaliana</i> . <i>BMC Genomics</i> , 2017, 18, 731.	1.2	68
71	Characterization of the Wheat Leaf Metabolome during Grain Filling and under Varied N-Supply. <i>Frontiers in Plant Science</i> , 2017, 8, 2048.	1.7	42
72	Rapid in situ ¹³ C tracing of sucrose utilization in <i>Arabidopsis</i> sink and source leaves. <i>Plant Methods</i> , 2017, 13, 87.	1.9	16

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73	A new synthetic biology approach allows transfer of an entire metabolic pathway from a medicinal plant to a biomass crop. <i>ELife</i> , 2016, 5, .	2.8	148
74	Editorial: Metabolome Informatics and Statistics: Current State and Emerging Trends. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016, 4, 63.	2.0	3
75	Global Metabolic Profiling of Arabidopsis Polyamine Oxidase 4 (AtPAO4) Loss-of-Function Mutants Exhibiting Delayed Dark-Induced Senescence. <i>Frontiers in Plant Science</i> , 2016, 7, 173.	1.7	41
76	Functional specialization of one copy of glutamine phosphoribosyl pyrophosphate amidotransferase in ureide production from symbiotically fixed nitrogen in <i>Phaseolus vulgaris</i> . <i>Plant, Cell and Environment</i> , 2016, 39, 1767-1779.	2.8	12
77	Priming and memory of stress responses in organisms lacking a nervous system. <i>Biological Reviews</i> , 2016, 91, 1118-1133.	4.7	388
78	Increasing abscisic acid levels by immunomodulation in barley grains induces precocious maturation without changing grain composition. <i>Journal of Experimental Botany</i> , 2016, 67, 2675-2687.	2.4	10
79	Macromolecular recognition directs calcium ions to coccolith mineralization sites. <i>Science</i> , 2016, 353, 590-593.	6.0	86
80	The drought response of potato reference cultivars with contrasting tolerance. <i>Plant, Cell and Environment</i> , 2016, 39, 2370-2389.	2.8	66
81	CyAbrB2 Contributes to the Transcriptional Regulation of Low CO ₂ Acclimation in <i>Synechocystis</i> sp. PCC 6803. <i>Plant and Cell Physiology</i> , 2016, 57, 2232-2243.	1.5	37
82	Extrafloral nectar secretion from wounds of <i>Solanum dulcamara</i> . <i>Nature Plants</i> , 2016, 2, 16056.	4.7	22
83	Salt stress responses in a geographically diverse collection of <i>Eutrema/Thellungiella</i> spp. accessions. <i>Functional Plant Biology</i> , 2016, 43, 590.	1.1	17
84	Insights into isoprene production using the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biotechnology for Biofuels</i> , 2016, 9, 89.	6.2	49
85	Can cyanobacteria serve as a model of plant photorespiration? â€” a comparative meta-analysis of metabolite profiles. <i>Journal of Experimental Botany</i> , 2016, 67, 2941-2952.	2.4	20
86	Metabolite Profiling Reveals Sensitivity-Dependent Metabolic Shifts in Rice (<i>Oryza Sativa</i> L.) Cultivars under High Night Temperature Stress. <i>Procedia Environmental Sciences</i> , 2015, 29, 72.	1.3	4
87	Symbiosis dependent accumulation of primary metabolites in arbuscule-containing cells. <i>BMC Plant Biology</i> , 2015, 15, 234.	1.6	17
88	Integrative â€œomicâ€ analysis reveals distinctive cold responses in leaves and roots of strawberry, <i>Fragaria Ã– ananassa</i> â€™. <i>Frontiers in Plant Science</i> , 2015, 6, 826.	1.7	17
89	COordination of Standards in MetabOlomicS (COSMOS): facilitating integrated metabolomics data access. <i>Metabolomics</i> , 2015, 11, 1587-1597.	1.4	140
90	Integrated Transcriptomic and Metabolomic Characterization of the Low-Carbon Response Using an <i>ndhR</i> Mutant of <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2015, 169, 1540-1556.	2.3	57

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91	Transcriptome and metabolome reprogramming in <i>Vitis vinifera</i> cv. Trincadeira berries upon infection with <i>Botrytis cinerea</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 1769-1785.	2.4	144
92	Metabolic contribution to salt stress in two maize hybrids with contrasting resistance. <i>Plant Science</i> , 2015, 233, 107-115.	1.7	102
93	Identification of primary and secondary metabolites with phosphorus statusâ€dependent abundance in <i>A. rabiidopsis</i> , and of the transcription factor <i>PHR1</i> as a major regulator of metabolic changes during phosphorus limitation. <i>Plant, Cell and Environment</i> , 2015, 38, 172-187.	2.8	196
94	Metabolic and transcriptional transitions in barley glumes reveal a role as transitory resource buffers during endosperm filling. <i>Journal of Experimental Botany</i> , 2015, 66, 1397-1411.	2.4	35
95	Metabolic and transcriptomic signatures of rice floral organs reveal sugar starvation as a factor in reproductive failure under heat and drought stress. <i>Plant, Cell and Environment</i> , 2015, 38, 2171-2192.	2.8	164
96	Assessment of drought tolerance and its potential yield penalty in potato. <i>Functional Plant Biology</i> , 2015, 42, 655.	1.1	26
97	Dissection of jasmonate functions in tomato stamen development by transcriptome and metabolome analyses. <i>BMC Biology</i> , 2015, 13, 28.	1.7	34
98	High night temperature strongly impacts TCA cycle, amino acid and polyamine biosynthetic pathways in rice in a sensitivity-dependent manner. <i>Journal of Experimental Botany</i> , 2015, 66, 6385-6397.	2.4	86
99	Integrated analysis of engineered carbon limitation in a quadruple CO ₂ /HCO ₃ -uptake mutant of <i>Synechocystis</i> sp. PCC 6803. <i>Plant Physiology</i> , 2015, 169, pp.01289.2015.	2.3	20
100	Sugar Starvation of Rice Anthers is a Factor in Reproductive Failure under Heat and Drought Stress, as shown by Metabolite and Transcript Profiling. <i>Procedia Environmental Sciences</i> , 2015, 29, 70-71.	1.3	0
101	Effects of Inorganic Carbon Limitation on the Metabolome of the <i>Synechocystis</i> sp. PCC 6803 Mutant Defective in <i>glnB</i> Encoding the Central Regulator PII of Cyanobacterial C/N Acclimation. <i>Metabolites</i> , 2014, 4, 232-247.	1.3	27
102	REIL proteins of <i>Arabidopsis thaliana</i> interact in yeast-2-hybrid assays with homologs of the yeast Rlp24, Rpl24A, Rlp24B, Arx1, and Jjj1 proteins. <i>Plant Signaling and Behavior</i> , 2014, 9, e28224.	1.2	8
103	Selective induction and subcellular distribution of ACONITASE 3 reveal the importance of cytosolic citrate metabolism during lipid mobilization in <i>Arabidopsis</i> . <i>Biochemical Journal</i> , 2014, 463, 309-317.	1.7	33
104	<i>Arabidopsis thaliana</i> Glyoxalase 2-1 Is Required during Abiotic Stress but Is Not Essential under Normal Plant Growth. <i>PLoS ONE</i> , 2014, 9, e95971.	1.1	39
105	Quantification of Stable Isotope Label in Metabolites via Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2014, 1056, 213-223.	0.4	20
106	Light modulated activity of root alkaline/neutral invertase involves the interaction with 14â€ proteins. <i>Plant Journal</i> , 2014, 80, 785-796.	2.8	43
107	Systems-Wide Analysis of Acclimation Responses to Long-Term Heat Stress and Recovery in the Photosynthetic Model Organism <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 4270-4297.	3.1	107
108	Consequences of induced brassinosteroid deficiency in <i>Arabidopsis</i> leaves. <i>BMC Plant Biology</i> , 2014, 14, 309.	1.6	17

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109	Annotating unknown components from GC/EI-MS-based metabolite profiling experiments using GC/APCI(+)-QTOFMS. <i>Metabolomics</i> , 2014, 10, 324-336.	1.4	31
110	Systems Analysis of the Response of Photosynthesis, Metabolism, and Growth to an Increase in Irradiance in the Photosynthetic Model Organism <i>Chlamydomonas reinhardtii</i> . <i>Plant Cell</i> , 2014, 26, 2310-2350.	3.1	123
111	From systems biology to systems chemistry: metabolomic procedures enable insight into complex chemical reaction networks in water. <i>RSC Advances</i> , 2014, 4, 16777.	1.7	3
112	Profiling Methods to Identify Cold-Regulated Primary Metabolites Using Gas Chromatography Coupled to Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2014, 1166, 171-197.	0.4	42
113	Rationales and Approaches for Studying Metabolism in Eukaryotic Microalgae. <i>Metabolites</i> , 2014, 4, 184-217.	1.3	18
114	Mass appeal: metabolite identification in mass spectrometry-focused untargeted metabolomics. <i>Metabolomics</i> , 2013, 9, 44-66.	1.4	452
115	Transcriptomic and Metabolic Changes Associated with Photorespiratory Ammonium Accumulation in the Model Legume <i>Lotus japonicus</i> . <i>Plant Physiology</i> , 2013, 162, 1834-1848.	2.3	26
116	Recent Applications of Metabolomics Toward Cyanobacteria. <i>Metabolites</i> , 2013, 3, 72-100.	1.3	65
117	Search for Transcriptional and Metabolic Markers of Grape Pre-Ripening and Ripening and Insights into Specific Aroma Development in Three Portuguese Cultivars. <i>PLoS ONE</i> , 2013, 8, e60422.	1.1	69
118	Comprehensive Dissection of Spatiotemporal Metabolic Shifts in Primary, Secondary, and Lipid Metabolism during Developmental Senescence in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2013, 162, 1290-1310.	2.3	278
119	The REIL1 and REIL2 Proteins of <i>Arabidopsis thaliana</i> Are Required for Leaf Growth in the Cold. <i>Plant Physiology</i> , 2013, 163, 1623-1639.	2.3	27
120	Metabolic Changes in <i>Synechocystis</i> PCC6803 upon Nitrogen-Starvation: Excess NADPH Sustains Polyhydroxybutyrate Accumulation. <i>Metabolites</i> , 2013, 3, 101-118.	1.3	87
121	Dissecting Rice Polyamine Metabolism under Controlled Long-Term Drought Stress. <i>PLoS ONE</i> , 2013, 8, e60325.	1.1	120
122	Identification of Drought Tolerance Markers in a Diverse Population of Rice Cultivars by Expression and Metabolite Profiling. <i>PLoS ONE</i> , 2013, 8, e63637.	1.1	119
123	Functional associations between the metabolome and manganese tolerance in <i>Vigna unguiculata</i> . <i>Journal of Experimental Botany</i> , 2012, 63, 329-340.	2.4	28
124	Conducting Molecular Biomarker Discovery Studies in Plants. <i>Methods in Molecular Biology</i> , 2012, 918, 127-150.	0.4	6
125	Modification of OsSUT1 gene expression modulates the salt response of rice <i>Oryza sativa</i> cv. Taipei 309. <i>Plant Science</i> , 2012, 182, 101-111.	1.7	60
126	Low-carbon acclimation in carboxysome-less and photorespiratory mutants of the cyanobacterium <i>Synechocystis</i> sp. strain PCC 6803. <i>Microbiology (United Kingdom)</i> , 2012, 158, 398-413.	0.7	35

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127	Integrated pathway modules using time-course metabolic profiles and EST data from <i>Milnesium tardigradum</i> . <i>BMC Systems Biology</i> , 2012, 6, 72.	3.0	11
128	Comparative metabolomics of drought acclimation in model and forage legumes. <i>Plant, Cell and Environment</i> , 2012, 35, 136-149.	2.8	128
129	Metabolite profiling reveals novel multi-level cold responses in the diploid model <i>Fragaria vesca</i> (woodland strawberry). <i>Phytochemistry</i> , 2012, 77, 99-109.	1.4	39
130	Autoinducers Act as Biological Timers in <i>Vibrio harveyi</i> . <i>PLoS ONE</i> , 2012, 7, e48310.	1.1	57
131	Recommendations for Reporting Metabolite Data. <i>Plant Cell</i> , 2011, 23, 2477-2482.	3.1	326
132	Plant Metabolomics and Its Potential for Systems Biology Research. <i>Methods in Enzymology</i> , 2011, 500, 299-336.	0.4	78
133	Modulation of the Major Paths of Carbon in Photorespiratory Mutants of <i>Synechocystis</i> . <i>PLoS ONE</i> , 2011, 6, e16278.	1.1	81
134	Comparative ionomics and metabolomics in extremophile and glycophytic <i>Lotus</i> species under salt stress challenge the metabolic preadaptation hypothesis. <i>Plant, Cell and Environment</i> , 2011, 34, 605-617.	2.8	122
135	Extensive metabolic cross-talk in melon fruit revealed by spatial and developmental combinatorial metabolomics. <i>New Phytologist</i> , 2011, 190, 683-696.	3.5	111
136	Metabolic and Transcriptomic Phenotyping of Inorganic Carbon Acclimation in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Plant Physiology</i> , 2011, 155, 1640-1655.	2.3	81
137	Overexpression of Sinapine Esterase BnSCE3 in Oilseed Rape Seeds Triggers Global Changes in Seed Metabolism. <i>Plant Physiology</i> , 2011, 155, 1127-1145.	2.3	42
138	Cyanobacterial Lactate Oxidases Serve as Essential Partners in N ₂ Fixation and Evolved into Photorespiratory Glycolate Oxidases in Plants. <i>Plant Cell</i> , 2011, 23, 2978-2990.	3.1	56
139	TagFinder: Preprocessing Software for the Fingerprinting and the Profiling of Gas Chromatography-Mass Spectrometry Based Metabolome Analyses. <i>Methods in Molecular Biology</i> , 2011, 860, 255-286.	0.4	75
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