

Dirk Steinhauser

List of Publications by Year in descending order

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36
papers

6,016
citations

159358

30
h-index

377514

34
g-index

37
all docs

37
docs citations

37
times ranked

8655
citing authors

#	ARTICLE	IF	CITATIONS
1	GMD@CSB.DB: the Golm Metabolome Database. <i>Bioinformatics</i> , 2005, 21, 1635-1638.	1.8	1,247
2	GC-MS libraries for the rapid identification of metabolites in complex biological samples. <i>FEBS Letters</i> , 2005, 579, 1332-1337.	1.3	596
3	Extension of the Visualization Tool MapMan to Allow Statistical Analysis of Arrays, Display of Corresponding Genes, and Comparison with Known Responses. <i>Plant Physiology</i> , 2005, 138, 1195-1204.	2.3	576
4	Co-expression tools for plant biology: opportunities for hypothesis generation and caveats. <i>Plant, Cell and Environment</i> , 2009, 32, 1633-1651.	2.8	480
5	Metabolomic and transcriptomic stress response of <i>Escherichia coli</i> . <i>Molecular Systems Biology</i> , 2010, 6, 364.	3.2	451
6	PageMan: An interactive ontology tool to generate, display, and annotate overview graphs for profiling experiments. <i>BMC Bioinformatics</i> , 2006, 7, 535.	1.2	309
7	High-density kinetic analysis of the metabolomic and transcriptomic response of <i>Arabidopsis</i> to eight environmental conditions. <i>Plant Journal</i> , 2011, 67, 869-884.	2.8	251
8	Inferring Hypotheses on Functional Relationships of Genes: Analysis of the <i>Arabidopsis thaliana</i> Subtilase Gene Family. <i>PLoS Computational Biology</i> , 2005, 1, e40.	1.5	157
9	CSB.DB: a comprehensive systems-biology database. <i>Bioinformatics</i> , 2004, 20, 3647-3651.	1.8	152
10	High-resolution plant metabolomics: from mass spectral features to metabolites and from whole-cell analysis to subcellular metabolite distributions. <i>Plant Journal</i> , 2012, 70, 39-50.	2.8	151
11	Analysis of cytosolic and plastidic serine acetyltransferase mutants and subcellular metabolite distributions suggests interplay of the cellular compartments for cysteine biosynthesis in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2009, 32, 349-367.	2.8	139
12	Organization and Evolution of Brain Lipidome Revealed by Large-Scale Analysis of Human, Chimpanzee, Macaque, and Mouse Tissues. <i>Neuron</i> , 2015, 85, 695-702.	3.8	123
13	A Topological Map of the Compartmentalized <i>Arabidopsis thaliana</i> Leaf Metabolome. <i>PLoS ONE</i> , 2011, 6, e17806.	1.1	101
14	Unusual cyanobacterial TCA cycles: not broken just different. <i>Trends in Plant Science</i> , 2012, 17, 503-509.	4.3	97
15	ProMEX: a mass spectral reference database for proteins and protein phosphorylation sites. <i>BMC Bioinformatics</i> , 2007, 8, 216.	1.2	96
16	Metabolomic analysis indicates a pivotal role of the hepatotoxin microcystin in high light adaptation of <i>Microcystis</i> . <i>Environmental Microbiology</i> , 2015, 17, 1497-1509.	1.8	94
17	Enzyme Activity Profiles during Fruit Development in Tomato Cultivars and <i>Solanum pennellii</i> . <i>Plant Physiology</i> , 2010, 153, 80-98.	2.3	92
18	Toward the Storage Metabolome: Profiling the Barley Vacuole. <i>Plant Physiology</i> , 2011, 157, 1469-1482.	2.3	92

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19	Exceptional Evolutionary Divergence of Human Muscle and Brain Metabolomes Parallels Human Cognitive and Physical Uniqueness. <i>PLoS Biology</i> , 2014, 12, e1001871.	2.6	80
20	Combined Transcript and Metabolite Profiling of Arabidopsis Grown under Widely Variant Growth Conditions Facilitates the Identification of Novel Metabolite-Mediated Regulation of Gene Expression. <i>Plant Physiology</i> , 2010, 152, 2120-2129.	2.3	70
21	Analysis of Cytosolic and Plastidic Serine Acetyltransferase Mutants and Subcellular Metabolite Distributions Suggests Interplay of the Cellular Compartments for Cysteine Biosynthesis in Arabidopsis. <i>Plant, Cell and Environment</i> , 2008, 32, 349-67.	2.8	69
22	Identification of brassinosteroid-related genes by means of transcript co-response analyses. <i>Nucleic Acids Research</i> , 2005, 33, 2685-2696.	6.5	64
23	Assessment of sampling strategies for gas chromatography-mass spectrometry (GC-MS) based metabolomics of cyanobacteria. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2952-2960.	1.2	64
24	On the role of the mitochondrial 2-oxoglutarate dehydrogenase complex in amino acid metabolism. <i>Amino Acids</i> , 2013, 44, 683-700.	1.2	55
25	Transcription factors relevant to auxin signalling coordinate broad-spectrum metabolic shifts including sulphur metabolism. <i>Journal of Experimental Botany</i> , 2008, 59, 2831-2846.	2.4	54
26	The target of rapamycin kinase affects biomass accumulation and cell cycle progression by altering carbon/nitrogen balance in synchronized <i>Chlamydomonas reinhardtii</i> cells. <i>Plant Journal</i> , 2018, 93, 355-376.	2.8	54
27	Analysis of the compartmentalized metabolome – a validation of the non-aqueous fractionation technique. <i>Frontiers in Plant Science</i> , 2011, 2, 55.	1.7	49
28	Dynamics of lipids and metabolites during the cell cycle of <i>Chlamydomonas reinhardtii</i> . <i>Plant Journal</i> , 2017, 92, 331-343.	2.8	38
29	Identification of Enzyme Activity Quantitative Trait Loci in a <i>Solanum lycopersicum</i> – <i>Solanum pennellii</i> Introgression Line Population. <i>Plant Physiology</i> , 2011, 157, 998-1014.	2.3	36
30	Hypothesis-driven approach to predict transcriptional units from gene expression data. <i>Bioinformatics</i> , 2004, 20, 1928-1939.	1.8	33
31	Sample amount alternatives for data adjustment in comparative cyanobacterial metabolomics. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3503-3517.	1.9	32
32	Analysis of Subcellular Metabolite Distributions Within Arabidopsis thaliana Leaf Tissue: A Primer for Subcellular Metabolomics. <i>Methods in Molecular Biology</i> , 2014, 1062, 575-596.	0.4	28
33	Methods, applications and concepts of metabolite profiling: Primary metabolism. , 2007, 97, 171-194.		25
34	Unraveling retrograde signaling pathways: finding candidate signaling molecules via metabolomics and systems biology driven approaches. <i>Frontiers in Plant Science</i> , 2012, 3, 267.	1.7	18
35	Enhancing Vacuolar Sucrose Cleavage Within the Developing Potato Tuber has only Minor Effects on Metabolism. <i>Plant and Cell Physiology</i> , 2006, 47, 277-289.	1.5	16
36	Bioinformatics Tools to Discover Co-Expressed Genes in Plants. , 0, , 307-335.		1