

Sacha Baginsky

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

2,921
citations

26
h-index

54
g-index

54
ext. papers

3,337
ext. citations

7.6
avg, IF

4.92
L-index

#	Paper	IF	Citations
50	The Arabidopsis thaliana chloroplast proteome reveals pathway abundance and novel protein functions. <i>Current Biology</i> , 2004 , 14, 354-62	6.3	483
49	Genome-scale proteomics reveals Arabidopsis thaliana gene models and proteome dynamics. <i>Science</i> , 2008 , 320, 938-41	33.3	419
48	Large-scale Arabidopsis phosphoproteome profiling reveals novel chloroplast kinase substrates and phosphorylation networks. <i>Plant Physiology</i> , 2009 , 150, 889-903	6.6	357
47	Comparative phosphoproteome profiling reveals a function of the STN8 kinase in fine-tuning of cyclic electron flow (CEF). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12955-60	11.5	122
46	Proteome dynamics during plastid differentiation in rice. <i>Plant Physiology</i> , 2007 , 143, 912-23	6.6	109
45	Proteome analysis of the rice etioplast: metabolic and regulatory networks and novel protein functions. <i>Molecular and Cellular Proteomics</i> , 2005 , 4, 1072-84	7.6	93
44	PTK, the chloroplast RNA polymerase-associated protein kinase from mustard (<i>Sinapis alba</i>), mediates redox control of plastid in vitro transcription. <i>Plant Molecular Biology</i> , 1999 , 39, 1013-23	4.6	87
43	Proteome analysis of bell pepper (<i>Capsicum annuum</i> L.) chromoplasts. <i>Plant and Cell Physiology</i> , 2006 , 47, 1663-73	4.9	86
42	Transcription factor phosphorylation by a protein kinase associated with chloroplast RNA polymerase from mustard (<i>Sinapis alba</i>). <i>Plant Molecular Biology</i> , 1997 , 34, 181-9	4.6	79
41	The multisubunit chloroplast RNA polymerase A from mustard (<i>Sinapis alba</i> L.). Integration of a prokaryotic core into a larger complex with organelle-specific functions. <i>FEBS Journal</i> , 2000 , 267, 253-61		79
40	Plastid proteomics in higher plants: current state and future goals. <i>Plant Physiology</i> , 2011 , 155, 1578-88	6.6	75
39	Plant proteomics: concepts, applications, and novel strategies for data interpretation. <i>Mass Spectrometry Reviews</i> , 2009 , 28, 93-120	11	74
38	Plastid proteome assembly without Toc159: photosynthetic protein import and accumulation of N-acetylated plastid precursor proteins. <i>Plant Cell</i> , 2011 , 23, 3911-28	11.6	68
37	Novel tonoplast transporters identified using a proteomic approach with vacuoles isolated from cauliflower buds. <i>Plant Physiology</i> , 2007 , 145, 216-29	6.6	67
36	Proteome analysis of tobacco bright yellow-2 (BY-2) cell culture plastids as a model for undifferentiated heterotrophic plastids. <i>Journal of Proteome Research</i> , 2004 , 3, 1128-37	5.6	61
35	pep2pro: a new tool for comprehensive proteome data analysis to reveal information about organ-specific proteomes in Arabidopsis thaliana. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 225-37	3.7	60
34	The chloroplast kinase network: new insights from large-scale phosphoproteome profiling. <i>Molecular Plant</i> , 2009 , 2, 1141-53	14.4	47

33	A workflow to increase the detection rate of proteins from unsequenced organisms in high-throughput proteomics experiments. <i>Proteomics</i> , 2007 , 7, 4245-54	4.8	42
32	Protein identification and quantification by data-independent acquisition and multi-parallel collision-induced dissociation mass spectrometry (MS(E)) in the chloroplast stroma proteome. <i>Journal of Proteomics</i> , 2014 , 98, 79-89	3.9	41
31	Characterization of chloroplast protein import without Tic56, a component of the 1-megadalton translocon at the inner envelope membrane of chloroplasts. <i>Plant Physiology</i> , 2015 , 167, 972-90	6.6	30
30	Signal integration by chloroplast phosphorylation networks: an update. <i>Frontiers in Plant Science</i> , 2012 , 3, 256	6.2	30
29	Chloroplast-localized BICAT proteins shape stromal calcium signals and are required for efficient photosynthesis. <i>New Phytologist</i> , 2019 , 221, 866-880	9.8	29
28	Identification of STN7/STN8 kinase targets reveals connections between electron transport, metabolism and gene expression. <i>Plant Journal</i> , 2017 , 90, 1176-1186	6.9	28
27	MAPKs Influence Pollen Tube Growth by Controlling the Formation of Phosphatidylinositol 4,5-Bisphosphate in an Apical Plasma Membrane Domain. <i>Plant Cell</i> , 2017 , 29, 3030-3050	11.6	27
26	Synergistic Toxicity of Copper and Gold Compounds in <i>Cupriavidus metallidurans</i> . <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	26
25	High light-dependent phosphorylation of photosystem II inner antenna CP29 in monocots is STN7 independent and enhances nonphotochemical quenching. <i>Plant Physiology</i> , 2015 , 167, 457-71	6.6	26
24	The chloroplast import receptor Toc90 partially restores the accumulation of Toc159 client proteins in the <i>Arabidopsis thaliana</i> ppi2 mutant. <i>Molecular Plant</i> , 2011 , 4, 252-63	14.4	26
23	Common and specific protein accumulation patterns in different albino/pale-green mutants reveals regulon organization at the proteome level. <i>Plant Physiology</i> , 2012 , 160, 2189-201	6.6	24
22	The peptide microarray "ChloroPhos1.0" identifies new phosphorylation targets of plastid casein kinase II (pCKII) in <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2014 , 9, e108344	3.7	23
21	Protein phosphorylation in chloroplasts - a survey of phosphorylation targets. <i>Journal of Experimental Botany</i> , 2016 , 67, 3873-82	7	22
20	The zinc repository of <i>Cupriavidus metallidurans</i> . <i>Metallomics</i> , 2014 , 6, 2157-65	4.5	20
19	Importance of Translocon Subunit Tic56 for rRNA Processing and Chloroplast Ribosome Assembly. <i>Plant Physiology</i> , 2016 , 172, 2429-2444	6.6	19
18	Integrated proteome and metabolite analysis of the de-etiolation process in plastids from rice (<i>Oryza sativa</i> L.). <i>Proteomics</i> , 2011 , 11, 1751-63	4.8	19
17	The novel chloroplast outer membrane kinase KOC1 is a required component of the plastid protein import machinery. <i>Journal of Biological Chemistry</i> , 2017 , 292, 6952-6964	5.4	14
16	Identification and characterization of chloroplast casein kinase II from <i>Oryza sativa</i> (rice). <i>Journal of Experimental Botany</i> , 2015 , 66, 175-87	7	13

15	Identification of protein N-termini in <i>Cyanophora paradoxa</i> cyanelles: transit peptide composition and sequence determinants for precursor maturation. <i>Frontiers in Plant Science</i> , 2015 , 6, 559	6.2	13
14	On the Extent of Tyrosine Phosphorylation in Chloroplasts. <i>Plant Physiology</i> , 2015 , 169, 996-1000	6.6	12
13	Tailored Use of Targeted Proteomics in Plant-Specific Applications. <i>Frontiers in Plant Science</i> , 2018 , 9, 1204	6.2	11
12	Protein import-independent functions of Tic56, a component of the 1-MDa translocase at the inner chloroplast envelope membrane. <i>Plant Signaling and Behavior</i> , 2017 , 12, e1284726	2.5	10
11	Mild proteasomal stress improves photosynthetic performance in <i>Arabidopsis</i> chloroplasts. <i>Nature Communications</i> , 2020 , 11, 1662	17.4	10
10	The RNA-binding protein RNP29 is an unusual Toc159 transport substrate. <i>Frontiers in Plant Science</i> , 2014 , 5, 258	6.2	8
9	<i>Arabidopsis</i> proteomics: a simple and standardizable workflow for quantitative proteome characterization. <i>Methods in Molecular Biology</i> , 2014 , 1072, 275-88	1.4	7
8	Consequences of impaired 1-MDa TIC complex assembly for the abundance and composition of chloroplast high-molecular mass protein complexes. <i>PLoS ONE</i> , 2019 , 14, e0213364	3.7	6
7	Identification of four plastid-localized protein kinases. <i>FEBS Letters</i> , 2016 , 590, 1749-56	3.8	5
6	Chromoplast differentiation in bell pepper (<i>Capsicum annuum</i>) fruits. <i>Plant Journal</i> , 2021 , 105, 1431-1442	2.9	5
5	MSE for Label-Free Absolute Protein Quantification in Complex Proteomes. <i>Methods in Molecular Biology</i> , 2018 , 1696, 235-247	1.4	4
4	The Secret Life of Chloroplast Precursor Proteins in the Cytosol. <i>Molecular Plant</i> , 2020 , 13, 1111-1113	14.4	3
3	The <i>Arabidopsis</i> NOT4A E3 ligase promotes PGR3 expression and regulates chloroplast translation. <i>Nature Communications</i> , 2021 , 12, 251	17.4	2
2	Working day and night: plastid casein kinase 2 catalyses phosphorylation of proteins with diverse functions in light- and dark-adapted plastids. <i>Plant Journal</i> , 2020 , 104, 546-558	6.9	0
1	Safety first: das Ubiquitin-Proteasom-System (UPS) und die Photosynthese. <i>BioSpektrum</i> , 2021 , 27, 394-397	3.7	0