

Justin W. Walley

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,400
citations

218381

26
h-index

197535

49
g-index

67
all docs

67
docs citations

67
times ranked

5432
citing authors

#	ARTICLE	IF	CITATIONS
1	Integration of omic networks in a developmental atlas of maize. <i>Science</i> , 2016, 353, 814-818.	6.0	411
2	Selective Autophagy of BES1 Mediated by DSK2 Balances Plant Growth and Survival. <i>Developmental Cell</i> , 2017, 41, 33-46.e7.	3.1	262
3	Mechanical Stress Induces Biotic and Abiotic Stress Responses via a Novel cis-Element. <i>PLoS Genetics</i> , 2007, 3, e172.	1.5	205
4	Reconstruction of protein networks from an atlas of maize seed proteotypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4808-17.	3.3	174
5	TurboID-based proximity labeling reveals that UBR7 is a regulator of N NLR immune receptor-mediated immunity. <i>Nature Communications</i> , 2019, 10, 3252.	5.8	159
6	FERONIA Receptor Kinase Contributes to Plant Immunity by Suppressing Jasmonic Acid Signaling in <i>Arabidopsis thaliana</i> . <i>Current Biology</i> , 2018, 28, 3316-3324.e6.	1.8	154
7	Arachidonic Acid: An Evolutionarily Conserved Signaling Molecule Modulates Plant Stress Signaling Networks. <i>Plant Cell</i> , 2010, 22, 3193-3205.	3.1	152
8	Integrated multi-omics framework of the plant response to jasmonic acid. <i>Nature Plants</i> , 2020, 6, 290-302.	4.7	145
9	Deficiencies in Jasmonate-Mediated Plant Defense Reveal Quantitative Variation in <i>Botrytis cinerea</i> Pathogenesis. <i>PLoS Pathogens</i> , 2010, 6, e1000861.	2.1	141
10	Fatty acids and early detection of pathogens. <i>Current Opinion in Plant Biology</i> , 2013, 16, 520-526.	3.5	137
11	The Chromatin Remodeler SPLAYED Regulates Specific Stress Signaling Pathways. <i>PLoS Pathogens</i> , 2008, 4, e1000237.	2.1	129
12	<i>Arabidopsis</i> Deadenylases AtCAF1a and AtCAF1b Play Overlapping and Distinct Roles in Mediating Environmental Stress Responses. <i>Plant Physiology</i> , 2010, 152, 866-875.	2.3	98
13	The Receptor-like Cytoplasmic Kinase BIK1 Localizes to the Nucleus and Regulates Defense Hormone Expression during Plant Innate Immunity. <i>Cell Host and Microbe</i> , 2018, 23, 485-497.e5.	5.1	92
14	GSK3-like kinase BIN2 phosphorylates RD26 to potentiate drought signaling in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2019, 100, 923-937.	2.8	87
15	Plastid-produced interorgannellar stress signal MEcPP potentiates induction of the unfolded protein response in endoplasmic reticulum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6212-6217.	3.3	82
16	An Automated Proteogenomic Method Uses Mass Spectrometry to Reveal Novel Genes in <i>Zea mays</i> . <i>Molecular and Cellular Proteomics</i> , 2014, 13, 157-167.	2.5	79
17	Molecular Mechanisms Regulating Rapid Stress Signaling Networks in <i>Arabidopsis</i> . <i>Journal of Integrative Plant Biology</i> , 2010, 52, 354-359.	4.1	73
18	Fungal-induced protein hyperacetylation in maize identified by acetylome profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 210-215.	3.3	71

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19	The Tomato Translational Landscape Revealed by Transcriptome Assembly and Ribosome Profiling. <i>Plant Physiology</i> , 2019, 181, 367-380.	2.3	66
20	A High-Resolution Tissue-Specific Proteome and Phosphoproteome Atlas of Maize Primary Roots Reveals Functional Gradients along the Root Axes. <i>Plant Physiology</i> , 2015, 168, 233-246.	2.3	64
21	Rice HYDROPEROXIDE LYASES with Unique Expression Patterns Generate Distinct Aldehyde Signatures in Arabidopsis. <i>Plant Physiology</i> , 2006, 141, 121-134.	2.3	61
22	Integrated omics networks reveal the temporal signaling events of brassinosteroid response in Arabidopsis. <i>Nature Communications</i> , 2021, 12, 5858.	5.8	54
23	Directions for research and training in plant omics: Big Questions and Big Data. <i>Plant Direct</i> , 2019, 3, e00133.	0.8	47
24	Assessment and Refinement of Sample Preparation Methods for Deep and Quantitative Plant Proteome Profiling. <i>Proteomics</i> , 2018, 18, e1800220.	1.3	37
25	Dynamic Protein Acetylation in Plant-Pathogen Interactions. <i>Frontiers in Plant Science</i> , 2016, 7, 421.	1.7	33
26	Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021, 10, .	2.8	31
27	To the proteome and beyond: advances in single-cell omics profiling for plant systems. <i>Plant Physiology</i> , 2022, 188, 726-737.	2.3	31
28	Quantitative Early Auxin Root Proteomics Identifies GAUT10, a Galacturonosyltransferase, as a Novel Regulator of Root Meristem Maintenance. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 1157-1170.	2.5	29
29	The F-box E3 ubiquitin ligase BAF1 mediates the degradation of the brassinosteroid-activated transcription factor BES1 through selective autophagy in Arabidopsis. <i>Plant Cell</i> , 2021, 33, 3532-3554.	3.1	27
30	Heterotrimeric G-protein-Dependent Proteome and Phosphoproteome in Unstimulated Arabidopsis Roots. <i>Proteomics</i> , 2018, 18, e1800323.	1.3	26
31	Comparative Analysis of the Transcriptome and Proteome during Mouse Placental Development. <i>Journal of Proteome Research</i> , 2019, 18, 2088-2099.	1.8	21
32	Investigating the function of CAF1 deadenylases during plant stress responses. <i>Plant Signaling and Behavior</i> , 2010, 5, 802-805.	1.2	19
33	Maize <i>defective kernel5</i> is a bacterial TamB homologue required for chloroplast envelope biogenesis. <i>Journal of Cell Biology</i> , 2019, 218, 2638-2658.	2.3	19
34	Integrated omics reveal novel functions and underlying mechanisms of the receptor kinase FERONIA in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2022, 34, 2594-2614.	3.1	18
35	Dual use of peptide mass spectra: Protein atlas and genome annotation. <i>Current Plant Biology</i> , 2015, 2, 21-24.	2.3	15
36	qTeller: a tool for comparative multi-genomic gene expression analysis. <i>Bioinformatics</i> , 2021, 38, 236-242.	1.8	15

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37	Advances in functional proteomics to study plant-pathogen interactions. <i>Current Opinion in Plant Biology</i> , 2021, 63, 102061.	3.5	15
38	Arabidopsis bioinformatics resources: The current state, challenges, and priorities for the future. <i>Plant Direct</i> , 2019, 3, e00109.	0.8	14
39	Current status of the multinational Arabidopsis community. <i>Plant Direct</i> , 2020, 4, e00248.	0.8	13
40	Quantitative Profiling of Protein Abundance and Phosphorylation State in Plant Tissues Using Tandem Mass Tags. <i>Methods in Molecular Biology</i> , 2020, 2139, 147-156.	0.4	13
41	EXPOSURE TO ENVIRONMENTALLY RELEVANT LEVELS OF CADMIUM PRIMARILY IMPACTS TRANSPIRATION IN FIELD-GROWN SOYBEAN. <i>Journal of Plant Nutrition</i> , 2010, 33, 1519-1530.	0.9	10
42	Auxin Induces Widespread Proteome Remodeling in Arabidopsis Seedlings. <i>Proteomics</i> , 2019, 19, 1900199.	1.3	10
43	Post-Synthetic Reduction of Pectin Methylesterification Causes Morphological Abnormalities and Alterations to Stress Response in Arabidopsis thaliana. <i>Plants</i> , 2020, 9, 1558.	1.6	10
44	Receptor-Like Kinase Phosphorylation of Arabidopsis Heterotrimeric G α -Protein β -Subunit AtGPA1. <i>Proteomics</i> , 2019, 19, e1900265.	1.3	8
45	Sample Preparation Protocols for Protein Abundance, Acetylome, and Phosphoproteome Profiling of Plant Tissues. <i>Methods in Molecular Biology</i> , 2017, 1610, 123-133.	0.4	6
46	<i>slim shady</i> is a novel allele of <i>PHYTOCHROME B</i> present in the T α DNA line SALK_015201. <i>Plant Direct</i> , 2021, 5, e00326.	0.8	6
47	Robotic Assay for Drought (RoAD): an automated phenotyping system for brassinosteroid and drought responses. <i>Plant Journal</i> , 2021, 107, 1837-1853.	2.8	4
48	SGT1-Specific Domain Mutations Impair Interactions with the Barley MLA6 Immune Receptor in Association with Loss of NLR Protein. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 274-289.	1.4	4