

Michael R Sussman

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

49
papers

3,911
citations

21
h-index

53
g-index

53
ext. papers

4,837
ext. citations

10.5
avg, IF

5.37
L-index

#	Paper	IF	Citations
49	A network-based comparative framework to study conservation and divergence of proteomes in plant phylogenies. <i>Nucleic Acids Research</i> , 2021 , 49, e3	20.1	2
48	Mass spectrometric based detection of protein nucleotidylation in the RNA polymerase of SARS-CoV-2. <i>Communications Chemistry</i> , 2021 , 4,	6.3	4
47	Proteome Damage Inflicted by Ionizing Radiation: Advancing a Theme in the Research of Miroslav Radman. <i>Cells</i> , 2021 , 10,	7.9	2
46	Intermolecular and Intramolecular Interactions of the Plasma Membrane Proton Pump Revealed Using a Mass Spectrometry Cleavable Cross-Linker. <i>Biochemistry</i> , 2020 , 59, 2210-2225	3.2	5
45	Ionizing Radiation-induced Proteomic Oxidation in. <i>Molecular and Cellular Proteomics</i> , 2020 , 19, 1375-1395	5.6	9
44	The effect of developmental and environmental factors on secondary metabolites in medicinal plants. <i>Plant Physiology and Biochemistry</i> , 2020 , 148, 80-89	5.4	182
43	Lipo-chitooligosaccharides as regulatory signals of fungal growth and development. <i>Nature Communications</i> , 2020 , 11, 3897	17.4	19
42	Physiology of Highly Radioresistant After Experimental Evolution for 100 Cycles of Selection. <i>Frontiers in Microbiology</i> , 2020 , 11, 582590	5.7	3
41	Noninvasive Detection of Colorectal Carcinomas Using Serum Protein Biomarkers. <i>Journal of Surgical Research</i> , 2020 , 246, 160-169	2.5	15
40	Function and solution structure of the Arabidopsis thaliana RALF8 peptide. <i>Protein Science</i> , 2019 , 28, 1115-1126	6.3	5
39	Covalent Modification of Amino Acids and Peptides Induced by Ionizing Radiation from an Electron Beam Linear Accelerator Used in Radiotherapy. <i>Radiation Research</i> , 2019 , 191, 447-459	3.1	3
38	Conserved serum protein biomarkers associated with growing early colorectal adenomas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8471-8480	11.5	10
37	Proteome-wide Analysis of Protein Thermal Stability in the Model Higher Plant. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 308-319	7.6	23
36	Environmental and Genetic Factors Regulating Localization of the Plant Plasma Membrane H-ATPase. <i>Plant Physiology</i> , 2018 , 176, 364-377	6.6	20
35	Comparison of Vacuum MALDI and AP-MALDI Platforms for the Mass Spectrometry Imaging of Metabolites Involved in Salt Stress in. <i>Frontiers in Plant Science</i> , 2018 , 9, 1238	6.2	21
34	Probing a Plant Plasma Membrane Receptor Kinase's Three-Dimensional Structure Using Mass Spectrometry-Based Protein Footprinting. <i>Biochemistry</i> , 2018 , 57, 5159-5168	3.2	12
33	Comparison of the effects of a kinase-dead mutation of FERONIA on ovule fertilization and root growth of Arabidopsis. <i>FEBS Letters</i> , 2018 , 592, 2395-2402	3.8	20

32	Metabolomics of Arabidopsis Thaliana 2018 , 157-180		0
31	Plasma-Generated OH Radical Production for Analyzing Three-Dimensional Structure in Protein Therapeutics. <i>Scientific Reports</i> , 2017 , 7, 12946	4.9	17
30	A tail of two voltages: Proteomic comparison of the three electric organs of the electric eel. <i>Science Advances</i> , 2017 , 3, e1700523	14.3	12
29	A proteomic atlas of the legume <i>Medicago truncatula</i> and its nitrogen-fixing endosymbiont <i>Sinorhizobium meliloti</i> . <i>Nature Biotechnology</i> , 2016 , 34, 1198-1205	44.5	68
28	Mass Spectrometric-Based Selected Reaction Monitoring of Protein Phosphorylation during Symbiotic Signaling in the Model Legume, <i>Medicago truncatula</i> . <i>PLoS ONE</i> , 2016 , 11, e0155460	3.7	11
27	Examination of Endogenous Peptides in <i>Medicago truncatula</i> Using Mass Spectrometry Imaging. <i>Journal of Proteome Research</i> , 2016 , 15, 4403-4411	5.6	21
26	Potential regulatory phosphorylation sites in a <i>Medicago truncatula</i> plasma membrane proton pump implicated during early symbiotic signaling in roots. <i>FEBS Letters</i> , 2015 , 589, 2186-93	3.8	7
25	Unique patterns of transcript and miRNA expression in the South American strong voltage electric eel (<i>Electrophorus electricus</i>). <i>BMC Genomics</i> , 2015 , 16, 243	4.5	13
24	Algal ancestor of land plants was preadapted for symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13390-5	11.5	197
23	Regulation of the plasma membrane proton pump (H ⁺)-ATPase) by phosphorylation. <i>Current Opinion in Plant Biology</i> , 2015 , 28, 68-75	9.9	93
22	Photolithographic Synthesis of High-Density DNA and RNA Arrays on Flexible, Transparent, and Easily Subdivided Plastic Substrates. <i>Analytical Chemistry</i> , 2015 , 87, 11420-8	7.8	25
21	Rapid Phosphoproteomic Effects of Abscisic Acid (ABA) on Wild-Type and ABA Receptor-Deficient <i>A. thaliana</i> Mutants. <i>Molecular and Cellular Proteomics</i> , 2015 , 14, 1169-82	7.6	32
20	Use of Mass Spectrometry-Based Phosphoproteomics to Characterize a Receptor Protein Kinase-Mediated Signaling Pathway that Negatively Regulates Plant Cell Growth.. <i>FASEB Journal</i> , 2015 , 29, 220.1	0.9	
19	A peptide hormone and its receptor protein kinase regulate plant cell expansion. <i>Science</i> , 2014 , 343, 408-11	33.3	439
18	Phosphoproteomic Analyses Reveal Early Signaling Events in the Osmotic Stress Response. <i>Plant Physiology</i> , 2014 , 165, 1171-1187	6.6	66
17	SAUR Inhibition of PP2C-D Phosphatases Activates Plasma Membrane H ⁺ -ATPases to Promote Cell Expansion in Arabidopsis. <i>Plant Cell</i> , 2014 , 26, 2129-2142	11.6	270
16	Nonhuman genetics. Genomic basis for the convergent evolution of electric organs. <i>Science</i> , 2014 , 344, 1522-5	33.3	128
15	The concentrations of EGFR, LRG1, ITIH4, and F5 in serum correlate with the number of colonic adenomas in ApcPirc/+ rats. <i>Cancer Prevention Research</i> , 2014 , 7, 1160-9	3.2	11

14	The effect of a genetically reduced plasma membrane protonmotive force on vegetative growth of Arabidopsis. <i>Plant Physiology</i> , 2012 , 158, 1158-71	6.6	85
13	Metabolomics of Arabidopsis Thaliana 2011 , 157-180		6
12	Molecular characterization of mutant Arabidopsis plants with reduced plasma membrane proton pump activity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17918-29	5.4	117
11	Plant science. How plant cells go to sleep for a long, long time. <i>Science</i> , 2009 , 326, 1356-7	33.3	6
10	Democratization and integration of genomic profiling tools. <i>Methods in Molecular Biology</i> , 2009 , 553, 373-93	1.4	3
9	A quantitative analysis of Arabidopsis plasma membrane using trypsin-catalyzed (18)O labeling. <i>Molecular and Cellular Proteomics</i> , 2006 , 5, 1382-95	7.6	79
8	An Arabidopsis thaliana plasma membrane proton pump is essential for pollen development. <i>Genetics</i> , 2004 , 168, 1677-87	4	48
7	Genomic comparison of P-type ATPase ion pumps in Arabidopsis and rice. <i>Plant Physiology</i> , 2003 , 132, 618-28	6.6	285
6	Efficient screening of Arabidopsis T-DNA insertion lines using degenerate primers. <i>Plant Physiology</i> , 2001 , 125, 513-8	6.6	35
5	Potassium uptake supporting plant growth in the absence of AKT1 channel activity: Inhibition by ammonium and stimulation by sodium. <i>Journal of General Physiology</i> , 1999 , 113, 909-18	3.4	237
4	T-DNA as an insertional mutagen in Arabidopsis. <i>Plant Cell</i> , 1999 , 11, 2283-90	11.6	603
3	Maskless fabrication of light-directed oligonucleotide microarrays using a digital micromirror array. <i>Nature Biotechnology</i> , 1999 , 17, 974-8	44.5	613
2	New Technologies for Mining the Arabidopsis Genome. <i>Nature Biotechnology</i> , 1999 , 17, 29-29	44.5	
1	A transgene encoding a plasma membrane H ⁺ -ATPase that confers acid resistance in Arabidopsis thaliana seedlings. <i>Genetics</i> , 1998 , 149, 501-7	4	29