Michael R Sussman

List of Publications by Year
in descending order

47 papers	5,482 citations	201575 27 h-index	233338 45 g-index
53 all docs	53 docs citations	53 times ranked	7183 citing authors

#	Article	IF	Citations
1	Maskless fabrication of light-directed oligonucleotide microarrays using a digital micromirror array. Nature Biotechnology, 1999, 17, 974-978.	9.4	700
2	T-DNA as an Insertional Mutagen in Arabidopsis. Plant Cell, 1999, 11, 2283-2290.	3.1	658
3	A Peptide Hormone and Its Receptor Protein Kinase Regulate Plant Cell Expansion. Science, 2014, 343, 408-411.	6.0	630
4	The effect of developmental and environmental factors on secondary metabolites in medicinal plants. Plant Physiology and Biochemistry, 2020, 148, 80-89.	2.8	559
5	SAUR Inhibition of PP2C-D Phosphatases Activates Plasma Membrane H+-ATPases to Promote Cell Expansion in<i>Arabidopsis</i>Â Â. Plant Cell, 2014, 26, 2129-2142.	3.1	392
6	Genomic Comparison of P-Type ATPase Ion Pumps in Arabidopsis and Rice. Plant Physiology, 2003, 132, 618-628.	2.3	320
7	Algal ancestor of land plants was preadapted for symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13390-13395.	3.3	292
8	Potassium Uptake Supporting Plant Growth in the Absence of AKT1 Channel Activity. Journal of General Physiology, 1999, 113, 909-918.	0.9	266
9	Genomic basis for the convergent evolution of electric organs. Science, 2014, 344, 1522-1525.	6.0	181
10	Molecular Characterization of Mutant Arabidopsis Plants with Reduced Plasma Membrane Proton Pump Activity. Journal of Biological Chemistry, 2010, 285, 17918-17929.	1.6	161
11	Regulation of the plasma membrane proton pump (H+-ATPase) by phosphorylation. Current Opinion in Plant Biology, 2015, 28, 68-75.	3.5	142
12	A proteomic atlas of the legume Medicago truncatula and its nitrogen-fixing endosymbiont Sinorhizobium meliloti. Nature Biotechnology, 2016, 34, 1198-1205.	9.4	133
13	The Effect of a Genetically Reduced Plasma Membrane Protonmotive Force on Vegetative Growth of Arabidopsis Â Â Â. Plant Physiology, 2012, 158, 1158-1171.	2.3	130
14	A Quantitative Analysis of Arabidopsis Plasma Membrane Using Trypsin-catalyzed 18O Labeling. Molecular and Cellular Proteomics, 2006, 5, 1382-1395.	2.5	90
15	Phosphoproteomic Analyses Reveal Early Signaling Events in the Osmotic Stress Response Â Â. Plant Physiology, 2014, 165, 1171-1187.	2.3	77
16	Lipo-chitooligosaccharides as regulatory signals of fungal growth and development. Nature Communications, 2020, 11, 3897.	5.8	65
17	An Arabidopsis thaliana Plasma Membrane Proton Pump Is Essential for Pollen Development. Genetics, 2004, 168, 1677-1687.	1.2	62
18	Proteome-wide Analysis of Protein Thermal Stability in the Model Higher Plant Arabidopsis thaliana. Molecular and Cellular Proteomics, 2019, 18, 308-319.	2.5	42

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19	Rapid Phosphoproteomic Effects of Abscisic Acid (ABA) on Wild-Type and ABA Receptor-Deficient A. thaliana Mutants*. Molecular and Cellular Proteomics, 2015, 14, 1169-1182.	2.5	40
20	Comparison of Vacuum MALDI and AP-MALDI Platforms for the Mass Spectrometry Imaging of Metabolites Involved in Salt Stress in Medicago truncatula. Frontiers in Plant Science, 2018, 9, 1238.	1.7	39
21	Efficient Screening of Arabidopsis T-DNA Insertion Lines Using Degenerate Primers. Plant Physiology, 2001, 125, 513-518.	2.3	37
22	Plasma-Generated OH Radical Production for Analyzing Three-Dimensional Structure in Protein Therapeutics. Scientific Reports, 2017, 7, 12946.	1.6	37
23	Environmental and Genetic Factors Regulating Localization of the Plant Plasma Membrane H+-ATPase. Plant Physiology, 2018, 176, 364-377.	2.3	37
24	A Transgene Encoding a Plasma Membrane H+-ATPase That Confers Acid Resistance in Arabidopsis thaliana Seedlings. Genetics, 1998, 149, 501-507.	1.2	37
25	Comparison of the effects of a kinaseâ€dead mutation of <scp>FERONIA</scp> on ovule fertilization and root growth of Arabidopsis. FEBS Letters, 2018, 592, 2395-2402.	1.3	34
26	A tail of two voltages: Proteomic comparison of the three electric organs of the electric eel. Science Advances, 2017, 3, e1700523.	4.7	30
27	Unique patterns of transcript and miRNA expression in the South American strong voltage electric eel (Electrophorus electricus). BMC Genomics, 2015, 16, 243.	1.2	29
28	Examination of Endogenous Peptides in <i>Medicago truncatula</i> Using Mass Spectrometry Imaging. Journal of Proteome Research, 2016, 15, 4403-4411.	1.8	29
29	Noninvasive Detection of Colorectal Carcinomas Using Serum Protein Biomarkers. Journal of Surgical Research, 2020, 246, 160-169.	0.8	29
30	Photolithographic Synthesis of High-Density DNA and RNA Arrays on Flexible, Transparent, and Easily Subdivided Plastic Substrates. Analytical Chemistry, 2015, 87, 11420-11428.	3.2	27
31	Ionizing Radiation-induced Proteomic Oxidation in Escherichia coli. Molecular and Cellular Proteomics, 2020, 19, 1375-1395.	2.5	26
32	Conserved serum protein biomarkers associated with growing early colorectal adenomas. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8471-8480.	3.3	17
33	Probing a Plant Plasma Membrane Receptor Kinaseâ€™s Three-Dimensional Structure Using Mass Spectrometry-Based Protein Footprinting. Biochemistry, 2018, 57, 5159-5168.	1.2	16
34	Intermolecular and Intramolecular Interactions of the <i>Arabidopsis</i> Plasma Membrane Proton Pump Revealed Using a Mass Spectrometry Cleavable Cross-Linker. Biochemistry, 2020, 59, 2210-2225.	1.2	16
35	The Concentrations of EGFR, LRG1, ITIH4, and F5 in Serum Correlate with the Number of Colonic Adenomas in <i>ApcPirc</i>/+ Rats. Cancer Prevention Research, 2014, 7, 1160-1169.	0.7	14
36	Mass Spectrometric-Based Selected Reaction Monitoring of Protein Phosphorylation during Symbiotic Signaling in the Model Legume, Medicago truncatula. PLoS ONE, 2016, 11, e0155460.	1.1	13

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37	Mass spectrometric based detection of protein nucleotidylation in the RNA polymerase of SARS-CoV-2. Communications Chemistry, 2021, 4, .	2.0	11
38	Function and solution structure of the Arabidopsis thaliana RALF8 peptide. Protein Science, 2019, 28, 1115-1126.	3.1	10
39	How Plant Cells Go to Sleep for a Long, Long Time. Science, 2009, 326, 1356-1357.	6.0	9
40	Potential regulatory phosphorylation sites in a <i>Medicago truncatula</i> plasma membrane proton pump implicated during early symbiotic signaling in roots. FEBS Letters, 2015, 589, 2186-2193.	1.3	9
41	Physiology of Highly Radioresistant Escherichia coli After Experimental Evolution for 100 Cycles of Selection. Frontiers in Microbiology, 2020, 11, 582590.	1.5	7
42	Covalent Modification of Amino Acids and Peptides Induced by Ionizing Radiation from an Electron Beam Linear Accelerator Used in Radiotherapy. Radiation Research, 2019, 191, 447.	0.7	5
43	Democratization and Integration of Genomic Profiling Tools. Methods in Molecular Biology, 2009, 553, 373-393.	0.4	5
44	A network-based comparative framework to study conservation and divergence of proteomes in plant phylogenies. Nucleic Acids Research, 2021, 49, e3-e3.	6.5	5
45	Proteome Damage Inflicted by Ionizing Radiation: Advancing a Theme in the Research of Miroslav Radman. Cells, 2021, 10, 954.	1.8	3
46	New Technologies for Mining the Arabidopsis Genome. Nature Biotechnology, 1999, 17, 29-29.	9.4	0
47	Use of Mass Spectrometryâ€Based Phosphoproteomics to Characterize a Receptor Protein Kinaseâ€Mediated Signaling Pathway that Negatively Regulates Plant Cell Growth.. FASEB Journal, 2015, 29, 220.1.	0.2	0