Michael R Sussman

List of Publications by Citations

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	Maskless fabrication of light-directed oligonucleotide microarrays using a digital micromirror array. *Nature Biotechnology*, **1999**, 17, 974-8	44.5	613
48	T-DNA as an insertional mutagen in Arabidopsis. *Plant Cell*, **1999**, 11, 2283-90	11.6	603
47	A peptide hormone and its receptor protein kinase regulate plant cell expansion. *Science*, **2014**, 343, 408-11	33.3	439
46	Genomic comparison of P-type ATPase ion pumps in Arabidopsis and rice. *Plant Physiology*, **2003**, 132, 618-28	6.6	285
45	SAUR Inhibition of PP2C-D Phosphatases Activates Plasma Membrane H+-ATPases to Promote Cell Expansion in Arabidopsis. *Plant Cell*, **2014**, 26, 2129-2142	11.6	270
44	Potassium uptake supporting plant growth in the absence of AKT1 channel activity: Inhibition by ammonium and stimulation by sodium. *Journal of General Physiology*, **1999**, 113, 909-18	3.4	237
43	Algal ancestor of land plants was preadapted for symbiosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 13390-5	11.5	197
42	The effect of developmental and environmental factors on secondary metabolites in medicinal plants. *Plant Physiology and Biochemistry*, **2020**, 148, 80-89	5.4	182
41	Nonhuman genetics. Genomic basis for the convergent evolution of electric organs. *Science*, **2014**, 344, 1522-5	33.3	128
40	Molecular characterization of mutant Arabidopsis plants with reduced plasma membrane proton pump activity. *Journal of Biological Chemistry*, **2010**, 285, 17918-29	5.4	117
39	Regulation of the plasma membrane proton pump (H(+)-ATPase) by phosphorylation. *Current Opinion in Plant Biology*, **2015**, 28, 68-75	9.9	93
38	The effect of a genetically reduced plasma membrane protonmotive force on vegetative growth of Arabidopsis. *Plant Physiology*, **2012**, 158, 1158-71	6.6	85
37	A quantitative analysis of Arabidopsis plasma membrane using trypsin-catalyzed (18)O labeling. *Molecular and Cellular Proteomics*, **2006**, 5, 1382-95	7.6	79
36	A proteomic atlas of the legume Medicago truncatula and its nitrogen-fixing endosymbiont Sinorhizobium meliloti. *Nature Biotechnology*, **2016**, 34, 1198-1205	44.5	68
35	Phosphoproteomic Analyses Reveal Early Signaling Events in the Osmotic Stress Response. *Plant Physiology*, **2014**, 165, 1171-1187	6.6	66
34	An Arabidopsis thaliana plasma membrane proton pump is essential for pollen development. *Genetics*, **2004**, 168, 1677-87	4	48
33	Efficient screening of Arabidopsis T-DNA insertion lines using degenerate primers. *Plant Physiology*, **2001**, 125, 513-8	6.6	35

32	Rapid Phosphoproteomic Effects of Abscisic Acid (ABA) on Wild-Type and ABA Receptor-Deficient A. thaliana Mutants. *Molecular and Cellular Proteomics*, **2015**, 14, 1169-82	7.6	32
31	A transgene encoding a plasma membrane H+-ATPase that confers acid resistance in Arabidopsis thaliana seedlings. *Genetics*, **1998**, 149, 501-7	4	29
30	Photolithographic Synthesis of High-Density DNA and RNA Arrays on Flexible, Transparent, and Easily Subdivided Plastic Substrates. *Analytical Chemistry*, **2015**, 87, 11420-8	7.8	25
29	Proteome-wide Analysis of Protein Thermal Stability in the Model Higher Plant. *Molecular and Cellular Proteomics*, **2019**, 18, 308-319	7.6	23
28	Comparison of Vacuum MALDI and AP-MALDI Platforms for the Mass Spectrometry Imaging of Metabolites Involved in Salt Stress in. *Frontiers in Plant Science*, **2018**, 9, 1238	6.2	21
27	Examination of Endogenous Peptides in Medicago truncatula Using Mass Spectrometry Imaging. *Journal of Proteome Research*, **2016**, 15, 4403-4411	5.6	21
26	Environmental and Genetic Factors Regulating Localization of the Plant Plasma Membrane H-ATPase. *Plant Physiology*, **2018**, 176, 364-377	6.6	20
25	Comparison of the effects of a kinase-dead mutation of FERONIA on ovule fertilization and root growth of Arabidopsis. *FEBS Letters*, **2018**, 592, 2395-2402	3.8	20
24	Lipo-chitooligosaccharides as regulatory signals of fungal growth and development. *Nature Communications*, **2020**, 11, 3897	17.4	19
23	Plasma-Generated OH Radical Production for Analyzing Three-Dimensional Structure in Protein Therapeutics. *Scientific Reports*, **2017**, 7, 12946	4.9	17
22	Noninvasive Detection of Colorectal Carcinomas Using Serum Protein Biomarkers. *Journal of Surgical Research*, **2020**, 246, 160-169	2.5	15
21	Unique patterns of transcript and miRNA expression in the South American strong voltage electric eel (Electrophorus electricus). *BMC Genomics*, **2015**, 16, 243	4.5	13
20	Probing a Plant Plasma Membrane Receptor Kinase's Three-Dimensional Structure Using Mass Spectrometry-Based Protein Footprinting. *Biochemistry*, **2018**, 57, 5159-5168	3.2	12
19	A tail of two voltages: Proteomic comparison of the three electric organs of the electric eel. *Science Advances*, **2017**, 3, e1700523	14.3	12
18	The concentrations of EGFR, LRG1, ITIH4, and F5 in serum correlate with the number of colonic adenomas in ApcPirc/+ rats. *Cancer Prevention Research*, **2014**, 7, 1160-9	3.2	11
17	Mass Spectrometric-Based Selected Reaction Monitoring of Protein Phosphorylation during Symbiotic Signaling in the Model Legume, Medicago truncatula. *PLoS ONE*, **2016**, 11, e0155460	3.7	11
16	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	11.5	10
15	Ionizing Radiation-induced Proteomic Oxidation in. *Molecular and Cellular Proteomics*, **2020**, 19, 1375-1395	7.6	9

14	Potential regulatory phosphorylation sites in a Medicago truncatula plasma membrane proton pump implicated during early symbiotic signaling in roots. *FEBS Letters*, **2015**, 589, 2186-93	3.8	7
13	Metabolomics of Arabidopsis Thaliana **2011**, 157-180		6
12	Plant science. How plant cells go to sleep for a long, long time. *Science*, **2009**, 326, 1356-7	33.3	6
11	Function and solution structure of the Arabidopsis thaliana RALF8 peptide. *Protein Science*, **2019**, 28, 1115-1126	6.3	5
10	Intermolecular and Intramolecular Interactions of the Plasma Membrane Proton Pump Revealed Using a Mass Spectrometry Cleavable Cross-Linker. *Biochemistry*, **2020**, 59, 2210-2225	3.2	5
9	Mass spectrometric based detection of protein nucleotidylation in the RNA polymerase of SARS-CoV-2. *Communications Chemistry*, **2021**, 4,	6.3	4
8	Covalent Modification of Amino Acids and Peptides Induced by Ionizing Radiation from an Electron Beam Linear Accelerator Used in Radiotherapy. *Radiation Research*, **2019**, 191, 447-459	3.1	3
7	Democratization and integration of genomic profiling tools. *Methods in Molecular Biology*, **2009**, 553, 373-93	1.4	3
6	Physiology of Highly Radioresistant After Experimental Evolution for 100 Cycles of Selection. *Frontiers in Microbiology*, **2020**, 11, 582590	5.7	3
5	A network-based comparative framework to study conservation and divergence of proteomes in plant phylogenies. *Nucleic Acids Research*, **2021**, 49, e3	20.1	2
4	Proteome Damage Inflicted by Ionizing Radiation: Advancing a Theme in the Research of Miroslav Radman. *Cells*, **2021**, 10,	7.9	2
3	Metabolomics of Arabidopsis Thaliana **2018**, 157-180		0
2	New Technologies for Mining the Arabidopsis Genome. *Nature Biotechnology*, **1999**, 17, 29-29	44.5	
1	Use of Mass Spectrometry-Based Phosphoproteomics to Characterize a Receptor Protein Kinase-Mediated Signaling Pathway that Negatively Regulates Plant Cell Growth.. *FASEB Journal*, **2015**, 29, 220.1	0.9	