Michael R Sussman

List of Publications by Year
in descending order

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47 papers	5,482 citations	201385 27 h-index	233125 45 g-index
53 all docs	53 docs citations	53 times ranked	7183 citing authors

#	Article	IF	Citations
1	Mass spectrometric based detection of protein nucleotidylation in the RNA polymerase of SARS-CoV-2. Communications Chemistry, 2021, 4, .	2.0	11
2	Proteome Damage Inflicted by Ionizing Radiation: Advancing a Theme in the Research of Miroslav Radman. Cells, 2021, 10, 954.	1.8	3
3	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
4	Noninvasive Detection of Colorectal Carcinomas Using Serum Protein Biomarkers. Journal of Surgical Research, 2020, 246, 160-169.	0.8	29
5	The effect of developmental and environmental factors on secondary metabolites in medicinal plants. Plant Physiology and Biochemistry, 2020, 148, 80-89.	2.8	559
6	Lipo-chitooligosaccharides as regulatory signals of fungal growth and development. Nature Communications, 2020, 11, 3897.	5.8	65
7	Physiology of Highly Radioresistant Escherichia coli After Experimental Evolution for 100 Cycles of Selection. Frontiers in Microbiology, 2020, 11, 582590.	1.5	7
8	Intermolecular and Intramolecular Interactions of the Arabidopsis Plasma Membrane Proton Pump Revealed Using a Mass Spectrometry Cleavable Cross-Linker. Biochemistry, 2020, 59, 2210-2225.	1.2	16
9	Ionizing Radiation-induced Proteomic Oxidation in Escherichia coli. Molecular and Cellular Proteomics, 2020, 19, 1375-1395.	2.5	26
10	Function and solution structure of the Arabidopsis thaliana RALF8 peptide. Protein Science, 2019, 28, 1115-1126.	3.1	10
11	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
12	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
13	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
14	Environmental and Genetic Factors Regulating Localization of the Plant Plasma Membrane H+-ATPase. Plant Physiology, 2018, 176, 364-377.	2.3	37
15	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
16	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
17	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
18	Plasma-Generated OH Radical Production for Analyzing Three-Dimensional Structure in Protein Therapeutics. Scientific Reports, 2017, 7, 12946.	1.6	37

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19	A tail of two voltages: Proteomic comparison of the three electric organs of the electric eel. Science Advances, 2017, 3, e1700523.	4.7	30
20	Examination of Endogenous Peptides in Medicago truncatula Using Mass Spectrometry Imaging. Journal of Proteome Research, 2016, 15, 4403-4411.	1.8	29
21	A proteomic atlas of the legume Medicago truncatula and its nitrogen-fixing endosymbiont Sinorhizobium meliloti. Nature Biotechnology, 2016, 34, 1198-1205.	9.4	133
22	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
23	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
24	Potential regulatory phosphorylation sites in a Medicago truncatula plasma membrane proton pump implicated during early symbiotic signaling in roots. FEBS Letters, 2015, 589, 2186-2193.	1.3	9
25	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
26	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
27	Regulation of the plasma membrane proton pump (H+-ATPase) by phosphorylation. Current Opinion in Plant Biology, 2015, 28, 68-75.	3.5	142
28	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
29	Use of Mass SpectrometryâĊBased Phosphoproteomics to Characterize a Receptor Protein KinaseâĊMediated Signaling Pathway that Negatively Regulates Plant Cell Growth.. FASEB Journal, 2015, 29, 220.1.	0.2	0
30	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, 1160-1169.	0.7	14
31	A Peptide Hormone and Its Receptor Protein Kinase Regulate Plant Cell Expansion. Science, 2014, 343, 408-411.	6.0	630
32	Phosphoproteomic Analyses Reveal Early Signaling Events in the Osmotic Stress Response Â Â. Plant Physiology, 2014, 165, 1171-1187.	2.3	77
33	SAUR Inhibition of PP2C-D Phosphatases Activates Plasma Membrane H+-ATPases to Promote Cell Expansion inArabidopsisÂ Â. Plant Cell, 2014, 26, 2129-2142.	3.1	392
34	Genomic basis for the convergent evolution of electric organs. Science, 2014, 344, 1522-1525.	6.0	181
35	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
36	Molecular Characterization of Mutant Arabidopsis Plants with Reduced Plasma Membrane Proton Pump Activity. Journal of Biological Chemistry, 2010, 285, 17918-17929.	1.6	161

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37	How Plant Cells Go to Sleep for a Long, Long Time. Science, 2009, 326, 1356-1357.	6.0	9
38	Democratization and Integration of Genomic Profiling Tools. Methods in Molecular Biology, 2009, 553, 373-393.	0.4	5
39	A Quantitative Analysis of Arabidopsis Plasma Membrane Using Trypsin-catalyzed 18O Labeling. Molecular and Cellular Proteomics, 2006, 5, 1382-1395.	2.5	90
40	An Arabidopsis thaliana Plasma Membrane Proton Pump Is Essential for Pollen Development. Genetics, 2004, 168, 1677-1687.	1.2	62
41	Genomic Comparison of P-Type ATPase Ion Pumps in Arabidopsis and Rice. Plant Physiology, 2003, 132, 618-628.	2.3	320
42	Efficient Screening of Arabidopsis T-DNA Insertion Lines Using Degenerate Primers. Plant Physiology, 2001, 125, 513-518.	2.3	37
43	Potassium Uptake Supporting Plant Growth in the Absence of AKT1 Channel Activity. Journal of General Physiology, 1999, 113, 909-918.	0.9	266
44	T-DNA as an Insertional Mutagen in Arabidopsis. Plant Cell, 1999, 11, 2283-2290.	3.1	658
45	Maskless fabrication of light-directed oligonucleotide microarrays using a digital micromirror array. Nature Biotechnology, 1999, 17, 974-978.	9.4	700
46	New Technologies for Mining the Arabidopsis Genome. Nature Biotechnology, 1999, 17, 29-29.	9.4	0
47	A Transgene Encoding a Plasma Membrane H+-ATPase That Confers Acid Resistance in Arabidopsis thaliana Seedlings. Genetics, 1998, 149, 501-507.	1.2	37