Sergey Malitsky

List of Publications by Year in descending order

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Version: 2024-02-01

		126907	144013
57	5,195	33	57
papers	citations	h-index	g-index
63	63	63	8004
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Biosynthesis of Antinutritional Alkaloids in Solanaceous Crops Is Mediated by Clustered Genes. Science, 2013, 341, 175-179.	12.6	464
2	Persistent microbiome alterations modulate the rate of post-dieting weight regain. Nature, 2016, 540, 544-551.	27.8	371
3	Sugar Synthesis from CO2 in Escherichia coli. Cell, 2016, 166, 115-125.	28.9	272
4	GAME9 regulates the biosynthesis of steroidal alkaloids and upstream isoprenoids in the plant mevalonate pathway. Nature Communications, 2016, 7, 10654.	12.8	239
5	Reconstruction of <i>Arabidopsis</i> metabolic network models accounting for subcellular compartmentalization and tissue-specificity. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 339-344.	7.1	237
6	Live imaging of root–bacteria interactions in a microfluidics setup. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4549-4554.	7.1	233
7	GLYCOALKALOID METABOLISM1 Is Required for Steroidal Alkaloid Glycosylation and Prevention of Phytotoxicity in Tomato. Plant Cell, 2011, 23, 4507-4525.	6.6	205
8	Plant cholesterol biosynthetic pathway overlaps with phytosterol metabolism. Nature Plants, 2017, 3, 16205.	9.3	201
9	SHINE Transcription Factors Act Redundantly to Pattern the Archetypal Surface of Arabidopsis Flower Organs. PLoS Genetics, 2011, 7, e1001388.	3.5	191
10	The Transcript and Metabolite Networks Affected by the Two Clades of Arabidopsis Glucosinolate Biosynthesis Regulators. Plant Physiology, 2008, 148, 2021-2049.	4.8	188
11	Urea Cycle Dysregulation Generates Clinically Relevant Genomic and Biochemical Signatures. Cell, 2018, 174, 1559-1570.e22.	28.9	183
12	Antiviral activity of bacterial TIR domains via immune signalling molecules. Nature, 2021, 600, 116-120.	27.8	159
13	The tomato <scp>S</scp> l <scp>SHINE</scp> 3 transcription factor regulates fruit cuticle formation and epidermal patterning. New Phytologist, 2013, 197, 468-480.	7.3	156
14	Mapping the diatom redox-sensitive proteome provides insight into response to nitrogen stress in the marine environment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2740-2745.	7.1	147
15	Rewiring Host Lipid Metabolism by Large Viruses Determines the Fate of <i>Emiliania huxleyi</i> , a Bloom-Forming Alga in the Ocean Â. Plant Cell, 2014, 26, 2689-2707.	6.6	132
16	High-resolution metabolic mapping of cell types in plant roots. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E1232-41.	7.1	131
17	Sample Preparation for Mass Spectrometry Imaging of Plant Tissues: A Review. Frontiers in Plant Science, 2016, 7, 60.	3.6	125
18	A Metabolic Gene Cluster in the Wheat $\langle i \rangle$ W1 $\langle i \rangle$ and the Barley $\langle i \rangle$ Cer-cqu $\langle i \rangle$ Loci Determines \hat{I}^2 -Diketone Biosynthesis and Glaucousness. Plant Cell, 2016, 28, 1440-1460.	6.6	123

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19	Expression of a bacterial feedbackâ€insensitive 3â€deoxyâ€ <scp>d</scp> â€arabinoâ€heptulosonate 7â€phospha synthase of the shikimate pathway in Arabidopsis elucidates potential metabolic bottlenecks between primary and secondary metabolism. New Phytologist, 2012, 194, 430-439.	nte 7.3	98
20	Orchestration of Thiamin Biosynthesis and Central Metabolism by Combined Action of the Thiamin Pyrophosphate Riboswitch and the Circadian Clock in <i>Arabidopsis</i>	6.6	98
21	Viral infection of the marine alga <i>Emiliania huxleyi</i> triggers lipidomeÂremodeling and induces the production of highly saturated triacylglycerol. New Phytologist, 2016, 210, 88-96.	7.3	98
22	The WEIZMASS spectral library for high-confidence metabolite identification. Nature Communications, 2016, 7, 12423.	12.8	95
23	Expression of a bacterial biâ€functional chorismate mutase/prephenate dehydratase modulates primary and secondary metabolism associated with aromatic amino acids in Arabidopsis. Plant Journal, 2009, 60, 156-167.	5.7	80
24	Bacterial virulence against an oceanic bloom-forming phytoplankter is mediated by algal DMSP. Science Advances, 2018, 4, eaau5716.	10.3	78
25	Transcriptome and Metabolic Profiling Provides Insights into Betalain Biosynthesis and Evolution in Mirabilis jalapa. Molecular Plant, 2018, 11, 189-204.	8.3	76
26	Host succinate is an activation signal for <i>Salmonella</i> virulence during intracellular infection. Science, 2021, 371, 400-405.	12.6	68
27	Short-chain dehydrogenase/reductase governs steroidal specialized metabolites structural diversity and toxicity in the genus <i>Solanum</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E5419-E5428.	7.1	66
28	Viral serine palmitoyltransferase induces metabolic switch in sphingolipid biosynthesis and is required for infection of a marine alga. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1907-16.	7.1	58
29	Communication via extracellular vesicles enhances viral infection of a cosmopolitan alga. Nature Microbiology, 2017, 2, 1485-1492.	13.3	56
30	Asymmetric adaptation to indolic and aliphatic glucosinolates in the B and Q sibling species of <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). Molecular Ecology, 2012, 21, 4533-4546.	3.9	50
31	Role of Chemistry versus Substrate Binding in Recruiting Promiscuous Enzyme Functions. Biochemistry, 2011, 50, 2683-2690.	2.5	48
32	Targeting purine synthesis in ASS1-expressing tumors enhances the response to immune checkpoint inhibitors. Nature Cancer, 2020, 1, 894-908.	13.2	43
33	Dual Labeling of Metabolites for Metabolome Analysis (DLEMMA): A New Approach for the Identification and Relative Quantification of Metabolites by Means of Dual Isotope Labeling and Liquid Chromatographyâ''Mass Spectrometry. Analytical Chemistry, 2009, 81, 9257-9266.	6.5	41
34	Uncovering tomato quantitative trait loci and candidate genes for fruit cuticular lipid composition using the Solanum pennellii introgression line population. Journal of Experimental Botany, 2017, 68, 2703-2716.	4.8	41
35	Metabolomic foundation for differential responses of lipid metabolism to nitrogen and phosphorus deprivation in an arachidonic acid-producing green microalga. Plant Science, 2019, 283, 95-115.	3.6	35
36	Transcriptome analysis and metabolic profiling reveal the key role of \hat{l}_{\pm} -linolenic acid in dormancy regulation of European pear. Journal of Experimental Botany, 2019, 70, 1017-1031.	4.8	27

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37	Systemic Regulation of Host Energy and Oogenesis by Microbiome-Derived Mitochondrial Coenzymes. Cell Reports, 2021, 34, 108583.	6.4	27
38	Arabidopsis thaliana Plants with Different Levels of Aliphatic- and Indolyl-Glucosinolates Affect Host Selection and Performance of Bemisia tabaci. Journal of Chemical Ecology, 2013, 39, 1361-1372.	1.8	26
39	Lipidome Remodeling and Autophagic Respose in the Arachidonic-Acid-Rich Microalga Lobosphaera incisa Under Nitrogen and Phosphorous Deprivation. Frontiers in Plant Science, 2020, 11, 614846.	3.6	22
40	Clock proteins and training modify exercise capacity in a daytime-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
41	An efficient method for medium throughput screening of cuticular wax composition in different plant species. Metabolomics, $2016,12,1.$	3.0	18
42	Resolving the conflict between antibiotic production and rapid growth by recognition of peptidoglycan of susceptible competitors. Nature Communications, 2022, 13, 431.	12.8	17
43	The mitochondrial carrier Citrin plays a role in regulating cellular energy during carcinogenesis. Oncogene, 2020, 39, 164-175.	5. 9	16
44	Lipoxygenase functions in 102 production during root responses to osmotic stress. Plant Physiology, 2021, 185, 1638-1651.	4.8	15
45	Indole Derivatives Maintain the Status Quo Between Beneficial Biofilms and Their Plant Hosts. Molecular Plant-Microbe Interactions, 2019, 32, 1013-1025.	2.6	14
46	Weaponizing volatiles to inhibit competitor biofilms from a distance. Npj Biofilms and Microbiomes, 2021, 7, 2.	6.4	14
47	Immunoediting role for major vault protein in apoptotic signaling induced by bacterial $\langle i \rangle N \langle i \rangle$ -acyl homoserine lactones. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
48	BCKDK regulates the TCA cycle through PDC in the absence of PDK family during embryonic development. Developmental Cell, 2021, 56, 1182-1194.e6.	7.0	10
49	Fatty acid transport protein 2 interacts with ceramide synthase 2 to promote ceramide synthesis. Journal of Biological Chemistry, 2022, 298, 101735.	3.4	9
50	Metabolomic Changes Are Predictive of Aging in Laying Hens. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2021, 76, 1757-1768.	3.6	6
51	Sugarâ€regulated susceptibility of tomato fruit to <i>Colletotrichum</i> and <i>Penicillium</i> requires differential mechanisms of pathogenicity and fruit responses. Environmental Microbiology, 2020, 22, 2870-2891.	3.8	5
52	Epilepsy as a pyridoxine-dependent condition: Quantified urinary biomarkers for status evaluation and monitoring antiepileptic treatment. Medical Hypotheses, 2012, 79, 157-164.	1.5	4
53	Fatty Acid Production and Direct Acyl Transfer through Polar Lipids Control TAG Biosynthesis during Nitrogen Deprivation in the Halotolerant Alga Dunaliella tertiolecta. Marine Drugs, 2021, 19, 368.	4.6	4
54	Imaging flow cytometry reveals a dual role for exopolysaccharides in biofilms: To promote self-adhesion while repelling non-self-community members. Computational and Structural Biotechnology Journal, 2022, 20, 15-25.	4.1	4

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55	Resilience to Freezing in the Vegetative Cells of the Microalga Lobosphaera incisa (Trebouxiophyceae,) Tj ETQq $1\ 1$	0. <u>7</u> 84314	ggBT /Ove
56	Protocol for studying microbiome impact on host energy and reproduction in Drosophila. STAR Protocols, 2022, 3, 101253.	1.2	2
57	Obesity modulates Alzheimer's disease through accelerated immune ageing Alzheimer's and Dementia, 2021, 17 Suppl 3, e052670.	0.8	O