

# Sergey Malitsky

## List of Publications by Year in descending order

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57  
papers

5,195  
citations

126907

33  
h-index

144013

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g-index

63  
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63  
docs citations

63  
times ranked

8004  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Resolving the conflict between antibiotic production and rapid growth by recognition of peptidoglycan of susceptible competitors. Nature Communications, 2022, 13, 431.	12.8	17
3	Fatty acid transport protein 2 interacts with ceramide synthase 2 to promote ceramide synthesis. Journal of Biological Chemistry, 2022, 298, 101735.	3.4	9
4	Protocol for studying microbiome impact on host energy and reproduction in Drosophila. STAR Protocols, 2022, 3, 101253.	1.2	2
5	Weaponizing volatiles to inhibit competitor biofilms from a distance. Npj Biofilms and Microbiomes, 2021, 7, 2.	6.4	14
6	Systemic Regulation of Host Energy and Oogenesis by Microbiome-Derived Mitochondrial Coenzymes. Cell Reports, 2021, 34, 108583.	6.4	27
7	Lipoxygenase functions in 1O <sub>2</sub> production during root responses to osmotic stress. Plant Physiology, 2021, 185, 1638-1651.	4.8	15
8	Host succinate is an activation signal for <i>Salmonella</i> virulence during intracellular infection. Science, 2021, 371, 400-405.	12.6	68
9	Immunoediting role for major vault protein in apoptotic signaling induced by bacterial <i>N</i> -acyl homoserine lactones. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	11
10	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
11	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
12	Fatty Acid Production and Direct Acyl Transfer through Polar Lipids Control TAG Biosynthesis during Nitrogen Deprivation in the Halotolerant Alga <i>Dunaliella tertiolecta</i> . Marine Drugs, 2021, 19, 368.	4.6	4
13	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
14	Antiviral activity of bacterial TIR domains via immune signalling molecules. Nature, 2021, 600, 116-120.	27.8	159
15	Obesity modulates Alzheimer's disease through accelerated immune ageing.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e052670.	0.8	0
16	The mitochondrial carrier Citrin plays a role in regulating cellular energy during carcinogenesis. Oncogene, 2020, 39, 164-175.	5.9	16
17	Resilience to Freezing in the Vegetative Cells of the Microalga <i>Lobosphaera incisa</i> (Trebouxiophyceae), Tj ETQq1 1 0,784314 ggBT /Over	2.3	5
18	Lipidome Remodeling and Autophagic Respose in the Arachidonic-Acid-Rich Microalga <i>Lobosphaera incisa</i> Under Nitrogen and Phosphorous Deprivation. Frontiers in Plant Science, 2020, 11, 614846.	3.6	22

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19	Targeting purine synthesis in ASS1-expressing tumors enhances the response to immune checkpoint inhibitors. <i>Nature Cancer</i> , 2020, 1, 894-908.	13.2	43
20	Sugar-regulated susceptibility of tomato fruit to <i>Colletotrichum</i> and <i>Penicillium</i> requires differential mechanisms of pathogenicity and fruit responses. <i>Environmental Microbiology</i> , 2020, 22, 2870-2891.	3.8	5
21	Indole Derivatives Maintain the Status Quo Between Beneficial Biofilms and Their Plant Hosts. <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 1013-1025.	2.6	14
22	Metabolomic foundation for differential responses of lipid metabolism to nitrogen and phosphorus deprivation in an arachidonic acid-producing green microalga. <i>Plant Science</i> , 2019, 283, 95-115.	3.6	35
23	Transcriptome analysis and metabolic profiling reveal the key role of $\omega$ -linolenic acid in dormancy regulation of European pear. <i>Journal of Experimental Botany</i> , 2019, 70, 1017-1031.	4.8	27
24	Transcriptome and Metabolic Profiling Provides Insights into Betalain Biosynthesis and Evolution in <i>Mirabilis jalapa</i> . <i>Molecular Plant</i> , 2018, 11, 189-204.	8.3	76
25	Bacterial virulence against an oceanic bloom-forming phytoplankter is mediated by algal DMSP. <i>Science Advances</i> , 2018, 4, eaau5716.	10.3	78
26	Short-chain dehydrogenase/reductase governs steroidal specialized metabolites structural diversity and toxicity in the genus <i>Solanum</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5419-E5428.	7.1	66
27	Urea Cycle Dysregulation Generates Clinically Relevant Genomic and Biochemical Signatures. <i>Cell</i> , 2018, 174, 1559-1570.e22.	28.9	183
28	Uncovering tomato quantitative trait loci and candidate genes for fruit cuticular lipid composition using the <i>Solanum pennellii</i> introgression line population. <i>Journal of Experimental Botany</i> , 2017, 68, 2703-2716.	4.8	41
29	Live imaging of root-bacteria interactions in a microfluidics setup. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4549-4554.	7.1	233
30	Plant cholesterol biosynthetic pathway overlaps with phytosterol metabolism. <i>Nature Plants</i> , 2017, 3, 16205.	9.3	201
31	Communication via extracellular vesicles enhances viral infection of a cosmopolitan alga. <i>Nature Microbiology</i> , 2017, 2, 1485-1492.	13.3	56
32	Sample Preparation for Mass Spectrometry Imaging of Plant Tissues: A Review. <i>Frontiers in Plant Science</i> , 2016, 7, 60.	3.6	125
33	Viral infection of the marine alga <i>Emiliania huxleyi</i> triggers lipidome remodeling and induces the production of highly saturated triacylglycerol. <i>New Phytologist</i> , 2016, 210, 88-96.	7.3	98
34	A Metabolic Gene Cluster in the Wheat <i>W1</i> and the Barley <i>Cer-cqu</i> Loci Determines $\beta$ -Diketone Biosynthesis and Glaucousness. <i>Plant Cell</i> , 2016, 28, 1440-1460.	6.6	123
35	Persistent microbiome alterations modulate the rate of post-dieting weight regain. <i>Nature</i> , 2016, 540, 544-551.	27.8	371
36	The WEIZMASS spectral library for high-confidence metabolite identification. <i>Nature Communications</i> , 2016, 7, 12423.	12.8	95

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37	Sugar Synthesis from CO <sub>2</sub> in <i>Escherichia coli</i> . <i>Cell</i> , 2016, 166, 115-125.	28.9	272
38	Viral serine palmitoyltransferase induces metabolic switch in sphingolipid biosynthesis and is required for infection of a marine alga. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1907-16.	7.1	58
39	GAME9 regulates the biosynthesis of steroidal alkaloids and upstream isoprenoids in the plant mevalonate pathway. <i>Nature Communications</i> , 2016, 7, 10654.	12.8	239
40	An efficient method for medium throughput screening of cuticular wax composition in different plant species. <i>Metabolomics</i> , 2016, 12, 1.	3.0	18
41	Mapping the diatom redox-sensitive proteome provides insight into response to nitrogen stress in the marine environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2740-2745.	7.1	147
42	Rewiring Host Lipid Metabolism by Large Viruses Determines the Fate of <i>Emiliania huxleyi</i> , a Bloom-Forming Alga in the Ocean. <i>Plant Cell</i> , 2014, 26, 2689-2707.	6.6	132
43	Biosynthesis of Antinutritional Alkaloids in Solanaceous Crops Is Mediated by Clustered Genes. <i>Science</i> , 2013, 341, 175-179.	12.6	464
44	The tomato <i>S</i> SHINE3 transcription factor regulates fruit cuticle formation and epidermal patterning. <i>New Phytologist</i> , 2013, 197, 468-480.	7.3	156
45	<i>Arabidopsis thaliana</i> Plants with Different Levels of Aliphatic- and Indolyl-Glucosinolates Affect Host Selection and Performance of <i>Bemisia tabaci</i> . <i>Journal of Chemical Ecology</i> , 2013, 39, 1361-1372.	1.8	26
46	High-resolution metabolic mapping of cell types in plant roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E1232-41.	7.1	131
47	Orchestration of Thiamin Biosynthesis and Central Metabolism by Combined Action of the Thiamin Pyrophosphate Riboswitch and the Circadian Clock in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 288-307.	6.6	98
48	Reconstruction of <i>Arabidopsis</i> metabolic network models accounting for subcellular compartmentalization and tissue-specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 339-344.	7.1	237
49	Expression of a bacterial feedback-insensitive deoxyd-arabinoheptulosonate 7-phosphate synthase of the shikimate pathway in <i>Arabidopsis</i> elucidates potential metabolic bottlenecks between primary and secondary metabolism. <i>New Phytologist</i> , 2012, 194, 430-439.	7.3	98
50	Epilepsy as a pyridoxine-dependent condition: Quantified urinary biomarkers for status evaluation and monitoring antiepileptic treatment. <i>Medical Hypotheses</i> , 2012, 79, 157-164.	1.5	4
51	Asymmetric adaptation to indolic and aliphatic glucosinolates in the B and Q sibling species of <i>Bemisia tabaci</i> (Hemiptera: Aleyrodidae). <i>Molecular Ecology</i> , 2012, 21, 4533-4546.	3.9	50
52	Role of Chemistry versus Substrate Binding in Recruiting Promiscuous Enzyme Functions. <i>Biochemistry</i> , 2011, 50, 2683-2690.	2.5	48
53	GLYCOALKALOID METABOLISM1 Is Required for Steroidal Alkaloid Glycosylation and Prevention of Phytotoxicity in Tomato. <i>Plant Cell</i> , 2011, 23, 4507-4525.	6.6	205
54	SHINE Transcription Factors Act Redundantly to Pattern the Archetypal Surface of <i>Arabidopsis</i> Flower Organs. <i>PLoS Genetics</i> , 2011, 7, e1001388.	3.5	191

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55	Expression of a bacterial bifunctional chorismate mutase/prephenate dehydratase modulates primary and secondary metabolism associated with aromatic amino acids in Arabidopsis. <i>Plant Journal</i> , 2009, 60, 156-167.	5.7	80
56	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 Chromatography <sup>MS</sup> Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 9257-9266.	6.5	41
57	The Transcript and Metabolite Networks Affected by the Two Clades of Arabidopsis Glucosinolate Biosynthesis Regulators. <i>Plant Physiology</i> , 2008, 148, 2021-2049.	4.8	188