

Sergey Malitsky

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9393032/publications.pdf>

Version: 2024-02-01

57
papers

5,195
citations

126858

33
h-index

143943

57
g-index

63
all docs

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. | 1.9 | 4 |
| 2 | Resolving the conflict between antibiotic production and rapid growth by recognition of peptidoglycan of susceptible competitors. Nature Communications, 2022, 13, 431. | 5.8 | 17 |
| 3 | Fatty acid transport protein 2 interacts with ceramide synthase 2 to promote ceramide synthesis. Journal of Biological Chemistry, 2022, 298, 101735. | 1.6 | 9 |
| 4 | Protocol for studying microbiome impact on host energy and reproduction in Drosophila. STAR Protocols, 2022, 3, 101253. | 0.5 | 2 |
| 5 | Weaponizing volatiles to inhibit competitor biofilms from a distance. Npj Biofilms and Microbiomes, 2021, 7, 2. | 2.9 | 14 |
| 6 | Systemic Regulation of Host Energy and Oogenesis by Microbiome-Derived Mitochondrial Coenzymes. Cell Reports, 2021, 34, 108583. | 2.9 | 27 |
| 7 | Lipoxygenase functions in 1O ₂ production during root responses to osmotic stress. Plant Physiology, 2021, 185, 1638-1651. | 2.3 | 15 |
| 8 | Host succinate is an activation signal for <i>Salmonella</i> virulence during intracellular infection. Science, 2021, 371, 400-405. | 6.0 | 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, . | 3.3 | 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. | 3.1 | 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. | 1.7 | 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. | 2.2 | 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, . | 3.3 | 21 |
| 14 | Antiviral activity of bacterial TIR domains via immune signalling molecules. Nature, 2021, 600, 116-120. | 13.7 | 159 |
| 15 | Obesity modulates Alzheimer's disease through accelerated immune ageing.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e052670. | 0.4 | 0 |
| 16 | The mitochondrial carrier Citrin plays a role in regulating cellular energy during carcinogenesis. Oncogene, 2020, 39, 164-175. | 2.6 | 16 |
| 17 | Resilience to Freezing in the Vegetative Cells of the Microalga <i>Lobosphaera incisa</i> (Trebouxiophyceae), Tj ETQq1 1 Q.784314 ggBT /Over | 1.0 | 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. | 1.7 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Targeting purine synthesis in ASS1-expressing tumors enhances the response to immune checkpoint inhibitors. <i>Nature Cancer</i> , 2020, 1, 894-908. | 5.7 | 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. | 1.8 | 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. | 1.4 | 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. | 1.7 | 35 |
| 23 | Transcriptome analysis and metabolic profiling reveal the key role of ω -linolenic acid in dormancy regulation of European pear. <i>Journal of Experimental Botany</i> , 2019, 70, 1017-1031. | 2.4 | 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. | 3.9 | 76 |
| 25 | Bacterial virulence against an oceanic bloom-forming phytoplankter is mediated by algal DMSP. <i>Science Advances</i> , 2018, 4, eaau5716. | 4.7 | 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. | 3.3 | 66 |
| 27 | Urea Cycle Dysregulation Generates Clinically Relevant Genomic and Biochemical Signatures. <i>Cell</i> , 2018, 174, 1559-1570.e22. | 13.5 | 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. | 2.4 | 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. | 3.3 | 233 |
| 30 | Plant cholesterol biosynthetic pathway overlaps with phytosterol metabolism. <i>Nature Plants</i> , 2017, 3, 16205. | 4.7 | 201 |
| 31 | Communication via extracellular vesicles enhances viral infection of a cosmopolitan alga. <i>Nature Microbiology</i> , 2017, 2, 1485-1492. | 5.9 | 56 |
| 32 | Sample Preparation for Mass Spectrometry Imaging of Plant Tissues: A Review. <i>Frontiers in Plant Science</i> , 2016, 7, 60. | 1.7 | 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. | 3.5 | 98 |
| 34 | A Metabolic Gene Cluster in the Wheat <i>W1</i> and the Barley <i>Cer-cqu</i> Loci Determines β -Diketone Biosynthesis and Glaucousness. <i>Plant Cell</i> , 2016, 28, 1440-1460. | 3.1 | 123 |
| 35 | Persistent microbiome alterations modulate the rate of post-dieting weight regain. <i>Nature</i> , 2016, 540, 544-551. | 13.7 | 371 |
| 36 | The WEIZMASS spectral library for high-confidence metabolite identification. <i>Nature Communications</i> , 2016, 7, 12423. | 5.8 | 95 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Sugar Synthesis from CO ₂ in <i>Escherichia coli</i> . <i>Cell</i> , 2016, 166, 115-125. | 13.5 | 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. | 3.3 | 58 |
| 39 | GAME9 regulates the biosynthesis of steroidal alkaloids and upstream isoprenoids in the plant mevalonate pathway. <i>Nature Communications</i> , 2016, 7, 10654. | 5.8 | 239 |
| 40 | An efficient method for medium throughput screening of cuticular wax composition in different plant species. <i>Metabolomics</i> , 2016, 12, 1. | 1.4 | 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. | 3.3 | 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. | 3.1 | 132 |
| 43 | Biosynthesis of Antinutritional Alkaloids in Solanaceous Crops Is Mediated by Clustered Genes. <i>Science</i> , 2013, 341, 175-179. | 6.0 | 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. | 3.5 | 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. | 0.9 | 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. | 3.3 | 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. | 3.1 | 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. | 3.3 | 237 |
| 49 | Expression of a bacterial feedback-insensitive 3-deoxy- <i>d</i> -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. | 3.5 | 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. | 0.8 | 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. | 2.0 | 50 |
| 52 | Role of Chemistry versus Substrate Binding in Recruiting Promiscuous Enzyme Functions. <i>Biochemistry</i> , 2011, 50, 2683-2690. | 1.2 | 48 |
| 53 | GLYCOALKALOID METABOLISM1 Is Required for Steroidal Alkaloid Glycosylation and Prevention of Phytotoxicity in Tomato. <i>Plant Cell</i> , 2011, 23, 4507-4525. | 3.1 | 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. | 1.5 | 191 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 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. | 2.8 | 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 ^{MS} Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 9257-9266. | 3.2 | 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. | 2.3 | 188 |