Yariv Brotman

List of Publications by Year
in descending order

51	2,355	25	46
papers	citations	h-index	g-index

236925 223800

52	52	52	3082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. Nature Methods, 2021, 18, 747-756.	19.0	403
2	Trichoderma-Plant Root Colonization: Escaping Early Plant Defense Responses and Activation of the Antioxidant Machinery for Saline Stress Tolerance. PLoS Pathogens, 2013, 9, e1003221.	4.7	299
3	Transcript and metabolite analysis of the Trichoderma-induced systemic resistance response to Pseudomonas syringae in Arabidopsis thaliana. Microbiology (United Kingdom), 2012, 158, 139-146.	1.8	172
4	Mapping the Arabidopsis Metabolic Landscape by Untargeted Metabolomics at Different Environmental Conditions. Molecular Plant, 2018, 11, 118-134.	8.3	116
5	Trichoderma. Current Biology, 2010, 20, R390-R391.	3.9	85
6	Omic Relief for the Biotically Stressed: Metabolomics of Plant Biotic Interactions. Trends in Plant Science, 2016, 21, 781-791.	8.8	76
7	Network-based strategies in metabolomics data analysis and interpretation: from molecular networking to biological interpretation. Expert Review of Proteomics, 2020, 17, 243-255.	3.0	70
8	Combined Use of Genome-Wide Association Data and Correlation Networks Unravels Key Regulators of Primary Metabolism in Arabidopsis thaliana. PLoS Genetics, 2016, 12, e1006363.	3.5	67
9	Quantitative Trait Loci Analysis Identifies a Prominent Gene Involved in the Production of Fatty Acid-Derived Flavor Volatiles in Tomato. Molecular Plant, 2018, 11, 1147-1165.	8.3	63
10	A Biostimulant Obtained from the Seaweed Ascophyllum nodosum Protects Arabidopsis thaliana from Severe Oxidative Stress. International Journal of Molecular Sciences, 2020, 21, 474.	4.1	62
11	Interorganelle Communication: Peroxisomal MALATE DEHYDROGENASE2 Connects Lipid Catabolism to Photosynthesis through Redox Coupling in Chlamydomonas. Plant Cell, 2018, 30, 1824-1847.	6.6	51
12	Canalization of Tomato Fruit Metabolism. Plant Cell, 2017, 29, 2753-2765.	6.6	47
13	Genomic basis underlying the metabolome-mediated drought adaptation of maize. Genome Biology, 2021, 22, 260.	8.8	44
14	Using lipidomics for expanding the knowledge on lipid metabolism in plants. Biochimie, 2016, 130, 91-96.	2.6	39
15	An integrated multiâ€layered analysis of the metabolic networks of different tissues uncovers key genetic components of primary metabolism in maize. Plant Journal, 2018, 93, 1116-1128.	5.7	38
16	Unraveling lipid metabolism in maize with timeâ€resolved multiâ€omics data. Plant Journal, 2018, 93, 1102-1115.	5.7	38
17	Largeâ€scale metabolite quantitative trait locus analysis provides new insights for highâ€quality maize improvement. Plant Journal, 2019, 99, 216-230.	5.7	37
18	Balancing the doubleâ€edged sword effect of increased resistant starch content and its impact on rice texture: its genetics and molecular physiological mechanisms. Plant Biotechnology Journal, 2020, 18, 1763-1777.	8.3	36

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19	The Acetate Pathway Supports Flavonoid and Lipid Biosynthesis in Arabidopsis. Plant Physiology, 2020, 182, 857-869.	4.8	35
20	Integrated genomics-based mapping reveals the genetics underlying maize flavonoid biosynthesis. BMC Plant Biology, 2017, 17, 17.	3.6	34
21	Multi-omics reveals mechanisms of total resistance to extreme illumination of a desert alga. Nature Plants, 2020, 6, 1031-1043.	9.3	33
22	Cytochrome respiration pathway and sulphur metabolism sustain stress tolerance to low temperature in the Antarctic species <i>Colobanthus quitensis</i>. New Phytologist, 2020, 225, 754-768.	7.3	32
23	The maize leaf lipidome shows multilevel genetic control and high predictive value for agronomic traits. Scientific Reports, 2013, 3, 2479.	3.3	29
24	Genome-wide association of the metabolic shifts underpinning dark-induced senescence in Arabidopsis. Plant Cell, 2022, 34, 557-578.	6.6	29
25	Towards model-driven characterization and manipulation of plant lipid metabolism. Progress in Lipid Research, 2020, 80, 101051.	11.6	28
26	Differential lipidome remodeling during postharvest of peach varieties with different susceptibility to chilling injury. Physiologia Plantarum, 2018, 163, 2-17.	5.2	27
27	Molecular Mechanisms Preventing Senescence in Response to Prolonged Darkness in a Desiccation-Tolerant Plant. Plant Physiology, 2018, 177, 1319-1338.	4.8	26
28	Branched-Chain Amino Acid Catabolism Impacts Triacylglycerol Homeostasis in <i>Chlamydomonas reinhardtii</i>. Plant Physiology, 2019, 179, 1502-1514.	4.8	26
29	Broadening Our Portfolio in the Genetic Improvement of Maize Chemical Composition. Trends in Genetics, 2016, 32, 459-469.	6.7	25
30	Multi-omics analysis of early leaf development in Arabidopsis thaliana. Patterns, 2021, 2, 100235.	5.9	24
31	Lipidomic and transcriptomic analysis reveals reallocation of carbon flux from cuticular wax into plastid membrane lipids in a glossy â€œNewhallâ€• navel orange mutant. Horticulture Research, 2020, 7, 41.	6.3	23
32	Autophagy is required for lipid homeostasis during dark-induced senescence. Plant Physiology, 2021, 185, 1542-1558.	4.8	22
33	The proof is in the bulb: glycerol influences key stages of lily development. Plant Journal, 2019, 97, 321-340.	5.7	21
34	Lowâ€temperature tolerance of the Antarctic species <scp><i>Deschampsia antarctica</i></scp>: A complex metabolic response associated with nutrient remobilization. Plant, Cell and Environment, 2020, 43, 1376-1393.	5.7	21
35	Tomato Yellow Leaf Curl Virus (TYLCV) Promotes Plant Tolerance to Drought. Cells, 2021, 10, 2875.	4.1	19
36	Metabolome and Lipidome Profiles of Populus Ã— canescens Twig Tissues During Annual Growth Show Phospholipid-Linked Storage and Mobilization of C, N, and S. Frontiers in Plant Science, 2018, 9, 1292.	3.6	18

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37	The utility of metabolomics as a tool to inform maize biology. Plant Communications, 2021, 2, 100187.	7.7	17
38	Liquid Chromatographyâ€“Mass Spectrometry (LCâ€•MS)â€•Based Analysis for Lipophilic Compound Profiling in Plants. Current Protocols in Plant Biology, 2020, 5, e20109.	2.8	16
39	Guidelines for Sample Normalization to Minimize Batch Variation for Large-Scale Metabolic Profiling of Plant Natural Genetic Variance. Methods in Molecular Biology, 2018, 1778, 33-46.	0.9	13
40	Correlation-based network analysis combined with machine learning techniques highlight the role of the GABA shunt in Brachypodium sylvaticum freezing tolerance. Scientific Reports, 2020, 10, 4489.	3.3	13
41	Tomato yellow leaf curl virus (TYLCV)-resistant tomatoes share molecular mechanisms sustaining resistance with their wild progenitor Solanum habrochaites but not with TYLCV-susceptible tomatoes. Plant Science, 2020, 295, 110439.	3.6	13
42	Nano and Micro Unmanned Aerial Vehicles (UAVs): A New Grand Challenge for Precision Agriculture?. Current Protocols in Plant Biology, 2020, 5, e20103.	2.8	13
43	Modelâ€•assisted identification of metabolic engineering strategies for <i>Jatropha curcas</i> lipid pathways. Plant Journal, 2020, 104, 76-95.	5.7	11
44	Bringing more players into play: Leveraging stress in genome wide association studies. Journal of Plant Physiology, 2022, 271, 153657.	3.5	11
45	Network Analysis Provides Insight into Tomato Lipid Metabolism. Metabolites, 2020, 10, 152.	2.9	10
46	Cucumber ovaries inhibited by dominant fruit express a dynamic developmental program, distinct from either senescenceâ€•determined or fruitâ€•setting ovaries. Plant Journal, 2018, 96, 651-669.	5.7	8
47	The metabolic (under)groundwork of the lily bulb toward sprouting. Physiologia Plantarum, 2018, 163, 436-449.	5.2	6
48	Salt tolerance of two perennial grass Brachypodium sylvaticum accessions. Plant Molecular Biology, 2018, 96, 305-314.	3.9	4
49	It takes two: Reciprocal scion-rootstock relationships enable salt tolerance in 'Hass' avocado. Plant Science, 2021, 312, 111048.	3.6	3
50	When vegetation indicates reproduction: The affinity between leaf morphology and flowering commitment in the lily meristem. Physiologia Plantarum, 2021, 172, 2022-2033.	5.2	0
51	Metabolomic Analysis of Natural Variation in Arabidopsis. Methods in Molecular Biology, 2021, 2200, 393-411.	0.9	0