

David Toubiana

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

977
citations

471509

17
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

1768
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolite profiling and network analysis reveal coordinated changes in grapevine water stress response. <i>BMC Plant Biology</i> , 2013, 13, 184.	3.6	158
2	Metabolic Profiling of a Mapping Population Exposes New Insights in the Regulation of Seed Metabolism and Seed, Fruit, and Plant Relations. <i>PLoS Genetics</i> , 2012, 8, e1002612.	3.5	115
3	Network analysis: tackling complex data to study plant metabolism. <i>Trends in Biotechnology</i> , 2013, 31, 29-36.	9.3	87
4	Correlation-Based Network Generation, Visualization, and Analysis as a Powerful Tool in Biological Studies: A Case Study in Cancer Cell Metabolism. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	68
5	Combined Transcriptomics and Metabolomics of <i>Arabidopsis thaliana</i> Seedlings Exposed to Exogenous GABA Suggest Its Role in Plants Is Predominantly Metabolic. <i>Molecular Plant</i> , 2014, 7, 1065-1068.	8.3	56
6	Regional features of northern Italian sparkling wines, identified using solid-phase micro extraction and comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry. <i>Food Chemistry</i> , 2016, 208, 68-80.	8.2	56
7	Combined correlation-based network and <i>mQTL</i> analyses efficiently identified loci for branched-chain amino acid, serine to threonine, and proline metabolism in tomato seeds. <i>Plant Journal</i> , 2015, 81, 121-133.	5.7	55
8	Combined network analysis and machine learning allows the prediction of metabolic pathways from tomato metabolomics data. <i>Communications Biology</i> , 2019, 2, 214.	4.4	53
9	The common transcriptional subnetworks of the grape berry skin in the late stages of ripening. <i>BMC Plant Biology</i> , 2017, 17, 94.	3.6	42
10	Mechanisms of hormonal regulation of endosperm cap-specific gene expression in tomato seeds. <i>Plant Journal</i> , 2012, 71, 575-586.	5.7	37
11	Environmental and genetic effects on tomato seed metabolic balance and its association with germination vigor. <i>BMC Genomics</i> , 2016, 17, 1047.	2.8	28
12	Bet-hedging in bacteriocin producing <i>Escherichia coli</i> populations: the single cell perspective. <i>Scientific Reports</i> , 2017, 7, 42068.	3.3	26
13	Ambivalent role of calcium in the viscoelastic properties of extracellular polymeric substances and the consequent fouling of reverse osmosis membranes. <i>Desalination</i> , 2018, 429, 12-19.	8.2	22
14	Metabolite profiling elucidates communalities and differences in the polyphenol biosynthetic pathways of red and white Muscat genotypes. <i>Plant Physiology and Biochemistry</i> , 2015, 86, 24-33.	5.8	20
15	Correlation-Based Network Analysis of Metabolite and Enzyme Profiles Reveals a Role of Citrate Biosynthesis in Modulating N and C Metabolism in <i>Zea mays</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 1022.	3.6	20
16	Hormone balance in a climacteric plum fruit and its non-climacteric bud mutant during ripening. <i>Plant Science</i> , 2019, 280, 51-65.	3.6	20
17	NMR-based metabolic study of fruits of <i>Physalis peruviana</i> L. grown in eight different Peruvian ecosystems. <i>Food Chemistry</i> , 2018, 262, 94-101.	8.2	18
18	A Genetic Algorithm to Optimize Weighted Gene Co-Expression Network Analysis. <i>Journal of Computational Biology</i> , 2019, 26, 1349-1366.	1.6	18

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19	Ethylene Response of Plum ACC Synthase 1 (ACS1) Promoter is Mediated through the Binding Site of Abscisic Acid Insensitive 5 (ABI5). <i>Plants</i> , 2019, 8, 117.	3.5	15
20	Correlation-based network analysis combined with machine learning techniques highlight the role of the GABA shunt in <i>Brachypodium sylvaticum</i> freezing tolerance. <i>Scientific Reports</i> , 2020, 10, 4489.	3.3	13
21	Genome-wide transcription profiling of aerobic and anaerobic <i>Escherichia coli</i> biofilm and planktonic cultures. <i>FEMS Microbiology Letters</i> , 2017, 364, fnx006.	1.8	12
22	Morphological and metabolic profiling of a tropical-adapted potato association panel subjected to water recovery treatment reveals new insights into plant vigor. <i>Plant Journal</i> , 2020, 103, 2193-2210.	5.7	10
23	NMR-based leaf metabolic profiling of <i>V. planifolia</i> and three endemic <i>Vanilla</i> species from the Peruvian Amazon. <i>Food Chemistry</i> , 2021, 358, 129365.	8.2	9
24	Guidelines for correlation coefficient threshold settings in metabolite correlation networks exemplified on a potato association panel. <i>BMC Bioinformatics</i> , 2021, 22, 116.	2.6	8
25	The Investment in Scent: Time-Resolved Metabolic Processes in Developing Volatile-Producing <i>Nigella sativa</i> L. Seeds. <i>PLoS ONE</i> , 2013, 8, e73061.	2.5	5
26	Draft Genome Sequence of the Nitrogen-Fixing Endophyte <i>Azoarcus communis</i> SWub3. <i>Microbiology Resource Announcements</i> , 2018, 7, .	0.6	4
27	Metabolic patterns associated with the seasonal rhythm of seed survival after dehydration in germinated seeds of <i>Schismus arabicus</i> . <i>BMC Plant Biology</i> , 2015, 15, 37.	3.6	1
28	Metabolomics-Assisted Crop Breeding Towards Improvement in Seed Quality and Yield. , 2012, , 453-475.		1