

Eshchar Mizrachi

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

3,274
citations

361045

20
h-index

315357

38
g-index

39
all docs

39
docs citations

39
times ranked

5268
citing authors

#	ARTICLE	IF	CITATIONS
1	The evolutionary significance of polyploidy. <i>Nature Reviews Genetics</i> , 2017, 18, 411-424.	7.7	1,288
2	The genome of <i>Eucalyptus grandis</i> . <i>Nature</i> , 2014, 510, 356-362.	13.7	725
3	SND2, a NAC transcription factor gene, regulates genes involved in secondary cell wall development in <i>Arabidopsis</i> fibres and increases fibre cell area in <i>Eucalyptus</i> . <i>BMC Plant Biology</i> , 2011, 11, 173.	1.6	164
4	De novo assembled expressed gene catalog of a fast-growing <i>Eucalyptus</i> tree produced by Illumina mRNA-Seq. <i>BMC Genomics</i> , 2010, 11, 681.	1.2	150
5	Navigating the transcriptional roadmap regulating plant secondary cell wall deposition. <i>Frontiers in Plant Science</i> , 2013, 4, 325.	1.7	124
6	Cellulose factories: advancing bioenergy production from forest trees. <i>New Phytologist</i> , 2012, 194, 54-62.	3.5	82
7	Horsetails Are Ancient Polyploids: Evidence from <i>Equisetum giganteum</i> . <i>Plant Cell</i> , 2015, 27, 1567-1578.	3.1	78
8	Network-based integration of systems genetics data reveals pathways associated with lignocellulosic biomass accumulation and processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1195-1200.	3.3	55
9	Xylan in the Middle: Understanding Xylan Biosynthesis and Its Metabolic Dependencies Toward Improving Wood Fiber for Industrial Processing. <i>Frontiers in Plant Science</i> , 2019, 10, 176.	1.7	52
10	Comparative interrogation of the developing xylem transcriptomes of two wood-forming species: <i>Populus trichocarpa</i> and <i>Eucalyptus grandis</i> . <i>New Phytologist</i> , 2015, 206, 1391-1405.	3.5	47
11	Systems genetics of wood formation. <i>Current Opinion in Plant Biology</i> , 2016, 30, 94-100.	3.5	46
12	Evidence for an ancient whole genome duplication in the cycad lineage. <i>PLoS ONE</i> , 2017, 12, e0184454.	1.1	36
13	The plastid and mitochondrial genomes of <i>Eucalyptus grandis</i> . <i>BMC Genomics</i> , 2019, 20, 132.	1.2	35
14	Integrated analysis and transcript abundance modelling of H3K4me3 and H3K27me3 in developing secondary xylem. <i>Scientific Reports</i> , 2017, 7, 3370.	1.6	32
15	Investigating the molecular underpinnings underlying morphology and changes in carbon partitioning during tension wood formation in <i>Eucalyptus</i> . <i>New Phytologist</i> , 2015, 206, 1351-1363.	3.5	27
16	Functional network analysis of genes differentially expressed during xylogenesis in woody <i>Arabidopsis</i> plants. <i>Plant Journal</i> , 2016, 86, 376-390.	2.8	27
17	Genome-wide mapping of histone H3 lysine 4 trimethylation in <i>Eucalyptus grandis</i> developing xylem. <i>BMC Plant Biology</i> , 2015, 15, 117.	1.6	26
18	The <i>Eucalyptus grandis</i> Genome Project: Genome and transcriptome resources for comparative analysis of woody plant biology. <i>BMC Proceedings</i> , 2011, 5, .	1.8	25

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19	Cell Wall-Related Proteins of Unknown Function: Missing Links in Plant Cell Wall Development. <i>Plant and Cell Physiology</i> , 2014, 55, 1031-1043.	1.5	25
20	Comparative analysis of plant carbohydrate active enZymes and their role in xylogenesis. <i>BMC Genomics</i> , 2015, 16, 402.	1.2	23
21	Recombinant hyperthermophilic enzyme expression in plants: a novel approach for lignocellulose digestion. <i>Trends in Biotechnology</i> , 2014, 32, 281-289.	4.9	21
22	Loss of Wood Formation Genes in Monocot Genomes. <i>Genome Biology and Evolution</i> , 2019, 11, 1986-1996.	1.1	20
23	Protein domain evolution is associated with reproductive diversification and adaptive radiation in the genus <i>Eucalyptus</i> . <i>New Phytologist</i> , 2015, 206, 1328-1336.	3.5	19
24	The <i>Eucalyptus</i> genome integrative explorer (EucGenIE): a resource for <i>Eucalyptus</i> genomics and transcriptomics. <i>BMC Proceedings</i> , 2011, 5, .	1.8	18
25	Systems and Synthetic Biology of Forest Trees: A Bioengineering Paradigm for Woody Biomass Feedstocks. <i>Frontiers in Plant Science</i> , 2019, 10, 775.	1.7	17
26	In planta expression of hyperthermophilic enzymes as a strategy for accelerated lignocellulosic digestion. <i>Scientific Reports</i> , 2017, 7, 11462.	1.6	16
27	A Standardized Synthetic <i>Eucalyptus</i> Transcription Factor and Promoter Panel for Re-engineering Secondary Cell Wall Regulation in Biomass and Bioenergy Crops. <i>ACS Synthetic Biology</i> , 2019, 8, 463-465.	1.9	15
28	Carbohydrate active enzyme domains from extreme thermophiles: components of a modular toolbox for lignocellulose degradation. <i>Extremophiles</i> , 2018, 22, 1-12.	0.9	14
29	The Arabidopsis Domain of Unknown Function 1218 (DUF1218) Containing Proteins, MODIFYING WALL LIGNIN-1 and 2 (At1g31720/MWL-1 and At4g19370/MWL-2) Function Redundantly to Alter Secondary Cell Wall Lignin Content. <i>PLoS ONE</i> , 2016, 11, e0150254.	1.1	14
30	Unsung and understudied: plastids involved in secondary growth. <i>Current Opinion in Plant Biology</i> , 2018, 42, 30-36.	3.5	11
31	Organellar carbon metabolism is coordinated with distinct developmental phases of secondary xylem. <i>New Phytologist</i> , 2019, 222, 1832-1845.	3.5	11
32	A systems genetics analysis in <i>Eucalyptus</i> reveals coordination of metabolic pathways associated with xylan modification in wood-forming tissues. <i>New Phytologist</i> , 2019, 223, 1952-1972.	3.5	10
33	Identification and functional evaluation of accessible chromatin associated with wood formation in <i>Eucalyptus grandis</i> . <i>New Phytologist</i> , 2019, 223, 1937-1951.	3.5	10
34	Genetic dissection of transcript, metabolite, growth and wood property traits in an F2 pseudo-backcross pedigree of <i>Eucalyptus grandis</i> x <i>E. urophylla</i> . <i>BMC Proceedings</i> , 2011, 5, .	1.8	3
35	A Dual Laser Scanning Confocal and Transmission Electron Microscopy Analysis of the Intracellular Localization, Aggregation and Particle Formation of African Horse Sickness Virus Major Core Protein VP7. <i>Microscopy and Microanalysis</i> , 2017, 23, 56-68.	0.2	2
36	Analysis of Orthologous SECONDARY WALL-ASSOCIATED NAC DOMAIN1 (SND1) Promotor Activity in Herbaceous and Woody Angiosperms. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4623.	1.8	2

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37	qtXplorer: an online systems genetics browser in the Eucalyptus Genome Integrative Explorer (EucGenIE). <i>BMC Bioinformatics</i> , 2021, 22, 595.	1.2	2
38	In silico comparative analysis of glycoside hydrolase (GH) family 10 endo-(1-4)-beta-xylanase genes from <i>Eucalyptus grandis</i> and <i>Arabidopsis thaliana</i> . <i>BMC Proceedings</i> , 2011, 5, .	1.8	0