Charanpreet Kaur

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7919204/publications.pdf

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28	888	516710 16	552781 26
papers	citations	h-index	g-index

29	29	29	815
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Glyoxalase and Methylglyoxal as Biomarkers for Plant Stress Tolerance. Critical Reviews in Plant Sciences, 2014, 33, 429-456.	5.7	120
2	A unique <scp>N</scp>i²⁺Ââ€dependent and methylglyoxalâ€inducible rice glyoxalaseÂ<scp>I</scp> possesses a single active site and functions in abiotic stress response. Plant Journal, 2014, 78, 951-963.	5.7	113
3	Glyoxalases and stress tolerance in plants. Biochemical Society Transactions, 2014, 42, 485-490.	3.4	97
4	Analysis of global gene expression profile of rice in response to methylglyoxal indicates its possible role as a stress signal molecule. Frontiers in Plant Science, 2015, 6, 682.	3.6	68
5	Methylglyoxal detoxification in plants: Role of glyoxalase pathway. Indian Journal of Plant Physiology, 2016, 21, 377-390.	0.8	52
6	Proteomics of contrasting rice genotypes: Identification of potential targets for raising crops for saline environment. Plant, Cell and Environment, 2018, 41, 947-969.	5.7	51
7	Episodes of horizontal gene-transfer and gene-fusion led to co-existence of different metal-ion specific glyoxalase I. Scientific Reports, 2013, 3, 3076.	3.3	48
8	Mapping the â€˜early salinity responseâ€™ triggered proteome adaptation in contrasting rice genotypes using iTRAQ approach. Rice, 2019, 12, 3.	4.0	37
9	A nuclearâ€localized rice glyoxalase I enzyme, OsGLYIâ€8, functions in the detoxification of methylglyoxal in the nucleus. Plant Journal, 2017, 89, 565-576.	5.7	36
10	Reassessing plant glyoxalases: large family and expanding functions. New Phytologist, 2020, 227, 714-721.	7.3	35
11	Expression of abiotic stress inducible ETHE1-like protein from rice is higher in roots and is regulated by calcium. Physiologia Plantarum, 2014, 152, 1-16.	5.2	33
12	Serotonin and Melatonin Biosynthesis in Plants: Genome-Wide Identification of the Genes and Their Expression Reveal a Conserved Role in Stress and Development. International Journal of Molecular Sciences, 2021, 22, 11034.	4.1	26
13	Characteristic Variations and Similarities in Biochemical, Molecular, and Functional Properties of Glyoxalases across Prokaryotes and Eukaryotes. International Journal of Molecular Sciences, 2017, 18, 250.	4.1	25
14	From methylglyoxal to pyruvate: a genome-wide study for the identification of glyoxalases and D-lactate dehydrogenases in Sorghum bicolor. BMC Genomics, 2020, 21, 145.	2.8	24
15	Molecular cloning and characterization of salt overly sensitive gene promoter from Brassica juncea (BjSOS2). Molecular Biology Reports, 2015, 42, 1139-1148.	2.3	22
16	OsSRO1a Interacts with RNA Binding Domain-Containing Protein (OsRBD1) and Functions in Abiotic Stress Tolerance in Yeast. Frontiers in Plant Science, 2016, 7, 62.	3.6	22
17	Complex Networks of Prion-Like Proteins Reveal Cross Talk Between Stress and Memory Pathways in Plants. Frontiers in Plant Science, 2021, 12, 707286.	3.6	13
18	Methylglyoxal, Triose Phosphate Isomerase, and Glyoxalase Pathway: Implications in Abiotic Stress and Signaling in Plants. , 2015, , 347-366.		12

#	Article	IF	Citations
19	OsCBSCBSPB4 is a Two Cystathionine-Î²-Synthase Domain-containing Protein from Rice that Functions in Abiotic Stress Tolerance. Current Genomics, 2017, 19, 50-59.	1.6	11
20	What signals the glyoxalase pathway in plants?. Physiology and Molecular Biology of Plants, 2021, 27, 2407-2420.	3.1	11
21	Tracing the Evolution of Plant Glyoxalase III Enzymes for Structural and Functional Divergence. Antioxidants, 2021, 10, 648.	5.1	10
22	Expression dynamics of glyoxalase genes under high temperature stress in plants. Plant Physiology Reports, 2020, 25, 533-548.	1.5	4
23	Microbial methylglyoxal metabolism contributes towards growth promotion and stress tolerance in plants. Environmental Microbiology, 2022, 24, 2817-2836.	3.8	4
24	Draft Genome Sequence of a Potential Plant Growth-Promoting Rhizobacterium, Pseudomonas sp. Strain CK-NBRI-02. Microbiology Resource Announcements, 2019, 8, .	0.6	3
25	Methylglyoxal-glyoxalase system as a possible selection module for raising marker-safe plants in rice. Physiology and Molecular Biology of Plants, 2021, 27, 2579-2588.	3.1	3
26	Draft Genome Sequence of Bacillus marisflavi CK-NBRI-03, Isolated from Agricultural Soil. Microbiology Resource Announcements, 2020, 9, .	0.6	2
27	Perception of Stress Environment in Plants. , 2019, , 163-186.		2
28	Stress response ofOsETHE1is altered in response to light and dark conditions. Plant Signaling and Behavior, 2014, 9, e973820.	2.4	1