Asis Datta

List of Publications by Year
in descending order

48 papers	2,415 citations	279798 23 h-index	206112 48 g-index
49 all docs	49 docs citations	49 times ranked	3003 citing authors

#	Article	IF	Citations
1	Recent Insights into Plant Circadian Clock Response Against Abiotic Stress. Journal of Plant Growth Regulation, 2022, 41, 3530-3543.	5.1	15
2	Classification of CRISPR/Cas system and its application in tomato breeding. Theoretical and Applied Genetics, 2022, 135, 367-387.	3.6	29
3	N-Acetylglucosamine Sensing and Metabolic Engineering for Attenuating Human and Plant Pathogens. Bioengineering, 2022, 9, 64.	3.5	11
4	RNA Interference for Improving Disease Resistance in Plants and Its Relevance in This Clustered Regularly Interspaced Short Palindromic Repeats-Dominated Era in Terms of dsRNA-Based Biopesticides. Frontiers in Plant Science, 2022, 13, .	3.6	8
5	Chromatin-Based Transcriptional Reprogramming in Plants under Abiotic Stresses. Plants, 2022, 11, 1449.	3.5	10
6	Fruit ripening specific expression of Î²-D-N-acetylhexosaminidase (Î²-Hex) gene in tomato is transcriptionally regulated by ethylene response factor SlERF.E4. Plant Science, 2022, 323, 111380.	3.6	9
7	Functional characterization of the LdNAGD gene in Leishmania donovani. Microbiological Research, 2021, 251, 126830.	5.3	3
8	Unraveling the role of tomato Bcl-2-associated athanogene (BAG) proteins during abiotic stress response and fruit ripening. Scientific Reports, 2021, 11, 21734.	3.3	24
9	Crystal structure of Gig2 protein from Candida albicans provides a structural insight into DUF1479 family oxygenases. International Journal of Biological Macromolecules, 2020, 150, 1272-1280.	7.5	3
10	Magnaporthe oryzae MoNdt80 is a transcriptional regulator of GlcNAc catabolic pathway involved in pathogenesis. Microbiological Research, 2020, 239, 126550.	5.3	9
11	Manipulation of oxalate metabolism in plants for improving food quality and productivity. Phytochemistry, 2019, 158, 103-109.	2.9	26
12	A comprehensive analysis of Candida albicans phosphoproteome reveals dynamic changes in phosphoprotein abundance during hyphal morphogenesis. Applied Microbiology and Biotechnology, 2018, 102, 9731-9743.	3.6	6
13	Biotechnology for drug discovery and crop improvement. Nucleus (India), 2017, 60, 237-242.	2.2	2
14	Expression of C-5 sterol desaturase from an edible mushroom in fisson yeast enhances its ethanol and thermotolerance. PLoS ONE, 2017, 12, e0173381.	2.5	25
15	Fruit Ripening Regulation of Î±-Mannosidase Expression by the MADS Box Transcription Factor RIPENING INHIBITOR and Ethylene. Frontiers in Plant Science, 2016, 7, 10.	3.6	47
16	Genetically modified (GM) crops: milestones and new advances in crop improvement. Theoretical and Applied Genetics, 2016, 129, 1639-1655.	3.6	123
17	Improving nutritional quality and fungal tolerance in soya bean and grass pea by expressing an oxalate decarboxylase. Plant Biotechnology Journal, 2016, 14, 1394-1405.	8.3	50
18	Env7p Associates with the Golgin Protein Imh1 at the <i>trans</i> -Golgi Network in Candida albicans. MSphere, 2016, 1, .	2.9	9

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19	<scp><i>M</i></scp><i>agnaporthe oryzae</i> aminosugar metabolism is essential for successful host colonization. Environmental Microbiology, 2016, 18, 1063-1077.	3.8	15
20	Fruit ripening mutants reveal cell metabolism and redox state during ripening. Protoplasma, 2016, 253, 581-594.	2.1	101
21	In vivo role of <i>Candida albicans Î²</i>â€hexosaminidase (<i><scp>HEX</scp>1</i>) in carbon scavenging. MicrobiologyOpen, 2015, 4, 730-742.	3.0	12
22	A calmodulin like EF hand protein positively regulates oxalate decarboxylase expression by interacting with E-box elements of the promoter. Scientific Reports, 2015, 5, 14578.	3.3	18
23	Small RNAs in plants: recent development and application for crop improvement. Frontiers in Plant Science, 2015, 06, 208.	3.6	235
24	Mapping of functional domains and characterization of the transcription factor Cph1 that mediate morphogenesis in Candida albicans. Fungal Genetics and Biology, 2015, 83, 45-57.	2.1	21
25	<i>N</i> -Acetylglucosamine (GlcNAc)-Inducible Gene <i>GIG2</i> Is a Novel Component of GlcNAc Metabolism in Candida albicans. Eukaryotic Cell, 2014, 13, 66-76.	3.4	9
26	Insights into transcriptional regulation of Â-D-N-acetylhexosaminidase, an N-glycan-processing enzyme involved in ripening-associated fruit softening. Journal of Experimental Botany, 2014, 65, 5835-5848.	4.8	26
27	N-acetylglucosamine kinase, HXK1 contributes to whiteâ€“opaque morphological transition in Candida albicans. Biochemical and Biophysical Research Communications, 2014, 445, 138-144.	2.1	10
28	Characterization of a Putative Spindle Assembly Checkpoint Kinase Mps1, Suggests Its Involvement in Cell Division, Morphogenesis and Oxidative Stress Tolerance in Candida albicans. PLoS ONE, 2014, 9, e101517.	2.5	11
29	Upregulation of galactose metabolic pathway by N-acetylglucosamine induced endogenous synthesis of galactose in Candida albicans. Fungal Genetics and Biology, 2013, 54, 15-24.	2.1	19
30	Genetic engineering for improving quality and productivity of crops. Agriculture and Food Security, 2013, 2, .	4.2	50
31	Reduction of Oxalate Levels in Tomato Fruit and Consequent Metabolic Remodeling Following Overexpression of a Fungal Oxalate Decarboxylase Â. Plant Physiology, 2013, 162, 364-378.	4.8	62
32	Induction of Senescence and Identification of Differentially Expressed Genes in Tomato in Response to Monoterpene. PLoS ONE, 2013, 8, e76029.	2.5	28
33	N-Acetylglucosamine Kinase, HXK1 Is Involved in Morphogenetic Transition and Metabolic Gene Expression in Candida albicans. PLoS ONE, 2013, 8, e53638.	2.5	38
34	Expression of a fungal sterol desaturase improves tomato drought tolerance, pathogen resistance and nutritional quality. Scientific Reports, 2012, 2, 951.	3.3	29
35	Quantitative proteomics and metabolomics approaches to demonstrate N-acetyl-d-glucosamine inducible amino acid deprivation response as morphological switch in Candida albicans. Fungal Genetics and Biology, 2012, 49, 369-378.	2.1	28
36	GM Crops: Dream to Bring Science to Society. Agricultural Research, 2012, 1, 95-99.	1.7	8

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37	Mechanism of lipid induced insulin resistance: Activated PKCÎµ is a key regulator. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2011, 1812, 495-506.	3.8	27
38	Two gene clusters coâ€ordinate for a functional Nâ€acetylglucosamine catabolic pathway in <i>Vibrio cholerae</i>. Molecular Microbiology, 2011, 80, 1549-1560.	2.5	35
39	The N-glycan processing enzymes Î±-mannosidase and Î²-D-N-acetylhexosaminidase are involved in ripening-associated softening in the non-climacteric fruits of capsicum. Journal of Experimental Botany, 2011, 62, 571-582.	4.8	72
40	Enhancement of fruit shelf life by suppressing<i>N</i>-glycan processing enzymes. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2413-2418.	7.1	179
41	Next-generation protein-rich potato expressing the seed protein gene <i>AmA1</i> is a result of proteome rebalancing in transgenic tuber. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17533-17538.	7.1	91
42	Environmental Sensing and Signal Transduction Pathways Regulating Morphopathogenic Determinants of <i>Candida albicans</i>. Microbiology and Molecular Biology Reviews, 2007, 71, 348-376.	6.6	457
43	Comparative Proteomics Analysis of Differentially Expressed Proteins in Chickpea Extracellular Matrix during Dehydration Stress. Molecular and Cellular Proteomics, 2007, 6, 1868-1884.	3.8	183
44	Cloning and characterization of the 5â€²-flanking region of the oxalate decarboxylase gene from Flammulina velutipes. Biochemical Journal, 2002, 367, 67-75.	3.7	24
45	A Secretion Signal Is Present in the Collybia velutipes Oxalate Decarboxylase Gene. Biochemical and Biophysical Research Communications, 2001, 289, 807-812.	2.1	12
46	Attenuation of Virulence and Changes in Morphology in Candida albicans by Disruption of the N -Acetylglucosamine Catabolic Pathway. Infection and Immunity, 2001, 69, 7898-7903.	2.2	61
47	Oxalate Decarboxylase from Collybia velutipes. Journal of Biological Chemistry, 2000, 275, 7230-7238.	3.4	112
48	Current Trends in Candida albicans Research. Advances in Microbial Physiology, 1990, 30, 53-88.	2.4	32