Prolay K Bhowmick

List of Publications by Year
in descending order

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32 papers	691 citations	687363 13 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	594 citing authors

#	Article	IF	Citations
1	A novel LOX3-null allele (lox3-b) originated in the aromatic Basmati rice cultivars imparts storage stability to rice bran. Food Chemistry, 2022, 369, 130887.	8.2	6
2	Population Structure of a Worldwide Collection of Tropical Japonica Rice Indicates Limited Geographic Differentiation and Shows Promising Genetic Variability Associated with New Plant Type. Genes, 2022, 13, 484.	2.4	4
3	Molecular profiling of BADH2 locus reveals distinct functional allelic polymorphism associated with fragrance variation in Indian aromatic rice germplasm. Physiology and Molecular Biology of Plants, 2022, 28, 1013-1027.	3.1	2
4	Rhizoctonia solani KÃ¼hn Pathophysiology: Status and Prospects of Sheath Blight Disease Management in Rice. Frontiers in Plant Science, 2022, 13, 881116.	3.6	31
5	Genome-Wide Association Mapping Reveals Novel Putative Gene Candidates Governing Reproductive Stage Heat Stress Tolerance in Rice. Frontiers in Genetics, 2022, 13, .	2.3	5
6	Introgression of qDTY1.1 Governing Reproductive Stage Drought Tolerance into an Elite Basmati Rice Variety â€œPusa Basmati 1â€•through Marker Assisted Backcross Breeding. Agronomy, 2021, 11, 202.	3.0	17
7	Drought Tolerant near Isogenic Lines (NILs) of Pusa 44 Developed through Marker Assisted Introgression of qDTY2.1 and qDTY3.1 Enhances Yield under Reproductive Stage Drought Stress. Agriculture (Switzerland), 2021, 11, 64.	3.1	14
8	Genome-Wide Association Study Reveals Markerâ€“Trait Associations for Early Vegetative Stage Salinity Tolerance in Rice. Plants, 2021, 10, 559.	3.5	16
9	Molecular Breeding for Improving Productivity of Oryza sativa L. cv. Pusa 44 under Reproductive Stage Drought Stress through Introgression of a Major QTL, qDTY12.1. Genes, 2021, 12, 967.	2.4	6
10	Drought Tolerant Near Isogenic Lines of Pusa 44 Pyramided With qDTY2.1 and qDTY3.1, Show Accelerated Recovery Response in a High Throughput Phenomics Based Phenotyping. Frontiers in Plant Science, 2021, 12, 752730.	3.6	2
11	Evaluation of genetic diversity of parental lines for development of heterotic groups in hybrid rice (Oryza sativa L.). Journal of Plant Biochemistry and Biotechnology, 2020, 29, 236-252.	1.7	13
12	Marker assisted introgression of genes governing resistance to bacterial blight and blast diseases into an elite Basmati rice variety, â€˜Pusa Basmati 1509â€™. Euphytica, 2020, 216, 1.	1.2	15
13	Discovery of a Novel Induced Polymorphism in SD1 Gene Governing Semi-Dwarfism in Rice and Development of a Functional Marker for Marker-Assisted Selection. Plants, 2020, 9, 1198.	3.5	10
14	Marker aided introgression of â€˜Saltolâ€™, a major QTL for seedling stage salinity tolerance into an elite Basmati rice variety â€˜Pusa Basmati 1509â€™. Scientific Reports, 2020, 10, 13877.	3.3	31
15	Influence of T-, C- and S- cytoplasms on male sterility and their utilisation in baby corn hybrid breeding. Euphytica, 2020, 216, 1.	1.2	4
16	Genetic Analysis and Molecular Mapping of the Quantitative Trait Loci Governing Low Phytic Acid Content in a Novel LPA Rice Mutant, PLM11. Plants, 2020, 9, 1728.	3.5	6
17	A trait specific QTL survey identifies NL44, a NERICA cultivar as a novel source for reproductive stage heat stress tolerance in rice. Plant Physiology Reports, 2020, 25, 664-676.	1.5	16
18	Enhanced grain yield in rice hybrids through complementation of fertility restoration by Rf3 and Rf4 genes as revealed by multilocation evaluation of tropical japonica derived rice (Oryza sativa) hybrids. Plant Breeding, 2020, 139, 743-753.	1.9	2

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19	Genome-Wide Association Study Reveals Novel Marker-Trait Associations (MTAs) Governing the Localization of Fe and Zn in the Rice Grain. Frontiers in Genetics, 2020, 11, 213.	2.3	61
20	Marker Assisted Development and Characterization of Herbicide Tolerant Near Isogenic Lines of a Mega Basmati Rice Variety, â€œPusa Basmati 1121â€• Rice, 2020, 13, 68.	4.0	9
21	WA-CMS-based iso-cytoplasmic restorers derived from commercial rice hybrids reveal distinct population structure and genetic divergence towards restorer diversification. 3 Biotech, 2019, 9, 299.	2.2	6
22	Molecular detection of WAâ€CMS restorers from tropical japonicaâ€derived lines, their evaluation for fertility restoration and adaptation. Plant Breeding, 2019, 138, 553-567.	1.9	5
23	Assessing the performance of hybrids developed using iso-cytoplasmic restorers and identification of promising combiners in rice. Indian Journal of Genetics and Plant Breeding, 2019, 79, .	0.5	1
24	Marker-Assisted Introgression of Saltol QTL Enhances Seedling Stage Salt Tolerance in the Rice Variety â€œPusa Basmati 1â€• International Journal of Genomics, 2018, 2018, 1-12.	1.6	52
25	Microsatellite based linkage disequilibrium analyses reveal Saltol haplotype fragmentation and identify novel QTLs for seedling stage salinity tolerance in rice (Oryza sativa L.). Journal of Plant Biochemistry and Biotechnology, 2017, 26, 310-320.	1.7	12
26	Marker-assisted identification of restorer gene(s) in iso-cytoplasmic restorer lines of WA cytoplasm in rice and assessment of their fertility restoration potential across environments. Physiology and Molecular Biology of Plants, 2017, 23, 891-909.	3.1	13
27	Marker Aided Incorporation of Saltol, a Major QTL Associated with Seedling Stage Salt Tolerance, into Oryza sativa â€˜Pusa Basmati 1121â€™. Frontiers in Plant Science, 2017, 8, 41.	3.6	70
28	Development and evaluation of iso-cytoplasmic rice restorer lines for different agro-morphological traits. Indian Journal of Genetics and Plant Breeding, 2017, 77, 493.	0.5	7
29	Marker-aided Incorporation of Xa38, a Novel Bacterial Blight Resistance Gene, in PB1121 and Comparison of its Resistance Spectrum with xa13â€‰+â€‰Xa21. Scientific Reports, 2016, 6, 29188.	3.3	53
30	Mapping quantitative trait loci responsible for resistance to Bakanae disease in rice. Rice, 2016, 9, 45.	4.0	54
31	Improvement of Basmati rice varieties for resistance to blast and bacterial blight diseases using marker assisted backcross breeding. Plant Science, 2016, 242, 330-341.	3.6	99
32	Markerâ€assisted simultaneous but stepwise backcross breeding for pyramiding blast resistance genes Piz5 and Pi54 into an elite Basmati rice restorer line â€˜<scp>PRR</scp>78â€™. Plant Breeding, 2013, 132, 486-495.	1.9	49