

Prolay K Bhowmick

List of Publications by Year in descending order

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32
papers

691
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687363

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580821

25
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32
docs citations

32
times ranked

594
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of Basmati rice varieties for resistance to blast and bacterial blight diseases using marker assisted backcross breeding. <i>Plant Science</i> , 2016, 242, 330-341.	3.6	99
2	Marker Aided Incorporation of Saltol, a Major QTL Associated with Seedling Stage Salt Tolerance, into <i>Oryza sativa</i> ‘Pusa Basmati 1121’™. <i>Frontiers in Plant Science</i> , 2017, 8, 41.	3.6	70
3	Genome-Wide Association Study Reveals Novel Marker-Trait Associations (MTAs) Governing the Localization of Fe and Zn in the Rice Grain. <i>Frontiers in Genetics</i> , 2020, 11, 213.	2.3	61
4	Mapping quantitative trait loci responsible for resistance to <i>Bakanae</i> disease in rice. <i>Rice</i> , 2016, 9, 45.	4.0	54
5	Marker-aided Incorporation of Xa38, a Novel Bacterial Blight Resistance Gene, in PB1121 and Comparison of its Resistance Spectrum with <i>xa13</i> + <i>Xa21</i> . <i>Scientific Reports</i> , 2016, 6, 29188.	3.3	53
6	Marker-Assisted Introgression of <i>Saltol</i> QTL Enhances Seedling Stage Salt Tolerance in the Rice Variety ‘Pusa Basmati 1’™. <i>International Journal of Genomics</i> , 2018, 2018, 1-12.	1.6	52
7	Marker-assisted simultaneous but stepwise backcross breeding for pyramiding blast resistance genes <i>Piz5</i> and <i>Pi54</i> into an elite Basmati rice restorer line ‘ <i>PRR78</i> ’™. <i>Plant Breeding</i> , 2013, 132, 486-495.	1.9	49
8	Marker aided introgression of ‘ <i>Saltol</i> ’™, a major QTL for seedling stage salinity tolerance into an elite Basmati rice variety ‘Pusa Basmati 1509’™. <i>Scientific Reports</i> , 2020, 10, 13877.	3.3	31
9	<i>Rhizoctonia solani</i> 1/4hn Pathophysiology: Status and Prospects of Sheath Blight Disease Management in Rice. <i>Frontiers in Plant Science</i> , 2022, 13, 881116.	3.6	31
10	Introgression of <i>qDTY1.1</i> Governing Reproductive Stage Drought Tolerance into an Elite Basmati Rice Variety ‘Pusa Basmati 1’™ through Marker Assisted Backcross Breeding. <i>Agronomy</i> , 2021, 11, 202.	3.0	17
11	A trait specific QTL survey identifies NL44, a NERICA cultivar as a novel source for reproductive stage heat stress tolerance in rice. <i>Plant Physiology Reports</i> , 2020, 25, 664-676.	1.5	16
12	Genome-Wide Association Study Reveals Marker-Trait Associations for Early Vegetative Stage Salinity Tolerance in Rice. <i>Plants</i> , 2021, 10, 559.	3.5	16
13	Marker assisted introgression of genes governing resistance to bacterial blight and blast diseases into an elite Basmati rice variety, ‘Pusa Basmati 1509’™. <i>Euphytica</i> , 2020, 216, 1.	1.2	15
14	Drought Tolerant near Isogenic Lines (NILs) of Pusa 44 Developed through Marker Assisted Introgression of <i>qDTY2.1</i> and <i>qDTY3.1</i> Enhances Yield under Reproductive Stage Drought Stress. <i>Agriculture (Switzerland)</i> , 2021, 11, 64.	3.1	14
15	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. <i>Physiology and Molecular Biology of Plants</i> , 2017, 23, 891-909.	3.1	13
16	Evaluation of genetic diversity of parental lines for development of heterotic groups in hybrid rice (<i>Oryza sativa</i> L.). <i>Journal of Plant Biochemistry and Biotechnology</i> , 2020, 29, 236-252.	1.7	13
17	Microsatellite based linkage disequilibrium analyses reveal <i>Saltol</i> haplotype fragmentation and identify novel QTLs for seedling stage salinity tolerance in rice (<i>Oryza sativa</i> L.). <i>Journal of Plant Biochemistry and Biotechnology</i> , 2017, 26, 310-320.	1.7	12
18	Discovery of a Novel Induced Polymorphism in <i>SD1</i> Gene Governing Semi-Dwarfism in Rice and Development of a Functional Marker for Marker-Assisted Selection. <i>Plants</i> , 2020, 9, 1198.	3.5	10

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19	Marker Assisted Development and Characterization of Herbicide Tolerant Near Isogenic Lines of a Mega Basmati Rice Variety, "Pusa Basmati 1121" Rice, 2020, 13, 68.	4.0	9
20	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
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	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
23	Molecular Breeding for Improving Productivity of <i>Oryza sativa</i> L. cv. Pusa 44 under Reproductive Stage Drought Stress through Introgression of a Major QTL, qDTY12.1. Genes, 2021, 12, 967.	2.4	6
24	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
25	Molecular detection of WA-CMS restorers from tropical japonica-derived lines, their evaluation for fertility restoration and adaptation. Plant Breeding, 2019, 138, 553-567.	1.9	5
26	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
27	Influence of T-, C- and S- cytoplasm on male sterility and their utilisation in baby corn hybrid breeding. Euphytica, 2020, 216, 1.	1.2	4
28	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
29	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 (<i>Oryza sativa</i>) hybrids. Plant Breeding, 2020, 139, 743-753.	1.9	2
30	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
31	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
32	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