

Babar Usman

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

531
citations

759055

12
h-index

996849

15
g-index

15
all docs

15
docs citations

15
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	CRISPR/Cas9-Induced Mutagenesis of Semi-Rolled Leaf1,2 Confers Curled Leaf Phenotype and Drought Tolerance by Influencing Protein Expression Patterns and ROS Scavenging in Rice (<i>Oryza sativa</i> L.). <i>Agronomy</i> , 2019, 9, 728.	1.3	96
2	Precise Editing of the OsPYL9 Gene by RNA-Guided Cas9 Nuclease Confers Enhanced Drought Tolerance and Grain Yield in Rice (<i>Oryza sativa</i> L.) by Regulating Circadian Rhythm and Abiotic Stress Responsive Proteins. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7854.	1.8	66
3	Knockout of OsPRP1, a gene encoding proline-rich protein, confers enhanced cold sensitivity in rice (<i>Oryza sativa</i> L.) at the seedling stage. <i>3 Biotech</i> , 2019, 9, 254.	1.1	58
4	Generation of High Yielding and Fragrant Rice (<i>Oryza sativa</i> L.) Lines by CRISPR/Cas9 Targeted Mutagenesis of Three Homoeologs of Cytochrome P450 Gene Family and OsBADH2 and Transcriptome and Proteome Profiling of Revealed Changes Triggered by Mutations. <i>Plants</i> , 2020, 9, 788.	1.6	57
5	Programmed Editing of Rice (<i>Oryza sativa</i> L.) OsSPL16 Gene Using CRISPR/Cas9 Improves Grain Yield by Modulating the Expression of Pyruvate Enzymes and Cell Cycle Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 249.	1.8	46
6	Recent Insights into Anthocyanin Pigmentation, Synthesis, Trafficking, and Regulatory Mechanisms in Rice (<i>Oryza sativa</i> L.) Caryopsis. <i>Biomolecules</i> , 2021, 11, 394.	1.8	42
7	Knockout of Pi21 by CRISPR/Cas9 and iTRAQ-Based Proteomic Analysis of Mutants Revealed New Insights into <i>M. oryzae</i> Resistance in Elite Rice Line. <i>Genes</i> , 2020, 11, 735.	1.0	36
8	Generation of semi-dwarf rice (<i>Oryza sativa</i> L.) lines by CRISPR/Cas9-directed mutagenesis of OsGA20ox2 and proteomic analysis of unveiled changes caused by mutations. <i>3 Biotech</i> , 2019, 9, 387.	1.1	30
9	Development of High Yielding Glutinous Cytoplasmic Male Sterile Rice (<i>Oryza sativa</i> L.) Lines through CRISPR/Cas9 Based Mutagenesis of Wx and TGW6 and Proteomic Analysis of Anther. <i>Agronomy</i> , 2018, 8, 290.	1.3	24
10	Development of Chromosome Segment Substitution Lines (CSSLs) Derived from Guangxi Wild Rice (<i>Oryza rufipogon</i> Griff.) under Rice (<i>Oryza sativa</i> L.) Background and the Identification of QTLs for Plant Architecture, Agronomic Traits and Cold Tolerance. <i>Genes</i> , 2020, 11, 980.	1.0	20
11	CRISPR/Cas9 Guided Mutagenesis of Grain Size 3 Confers Increased Rice (<i>Oryza sativa</i> L.) Grain Length by Regulating Cysteine Proteinase Inhibitor and Ubiquitin-Related Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3225.	1.8	19
12	Computational and Transcriptomic Analysis Unraveled OsMATE34 as a Putative Anthocyanin Transporter in Black Rice (<i>Oryza sativa</i> L.) Caryopsis. <i>Genes</i> , 2021, 12, 583.	1.0	16
13	CRISPR/Cas9 Directed Mutagenesis of OsGA20ox2 in High Yielding Basmati Rice (<i>Oryza sativa</i> L.) Line and Comparative Proteome Profiling of Unveiled Changes Triggered by Mutations. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6170.	1.8	13
14	Epitranscriptomics: An Additional Regulatory Layer in Plantsâ€™ Development and Stress Response. <i>Plants</i> , 2022, 11, 1033.	1.6	7
15	Evaluation of Guangxi common wild rice for resistance to brown planthopper using a new stem evaluation method. <i>Crop Science</i> , 2021, 61, 2579-2592.	0.8	1