

# Qifa Zhang

## List of Publications by Citations

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166  
papers

19,772  
citations

74  
h-index

139  
g-index

176  
ext. papers

23,983  
ext. citations

8.9  
avg, IF

6.67  
L-index

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 166 | Natural variation in Ghd7 is an important regulator of heading date and yield potential in rice. <i>Nature Genetics</i> , <b>2008</b> , 40, 761-7  | 36.3 | 1221      |
| 165 | Overexpressing a NAM, ATAF, and CUC (NAC) transcription factor enhances drought resistance and salt tolerance in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 12987-92                              | 11.5 | 1133      |
| 164 | Development and mapping of 2240 new SSR markers for rice ( <i>Oryza sativa</i> L.). <i>DNA Research</i> , <b>2002</b> , 9, 199-207   | 4.5  | 1009      |
| 163 | GS3, a major QTL for grain length and weight and minor QTL for grain width and thickness in rice, encodes a putative transmembrane protein. <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 112, 1164-71   | 6    | 938       |
| 162 | Natural variation in GS5 plays an important role in regulating grain size and yield in rice. <i>Nature Genetics</i> , <b>2011</b> , 43, 1266-9   | 36.3 | 581       |
| 161 | Genetic and molecular bases of rice yield. <i>Annual Review of Plant Biology</i> , <b>2010</b> , 61, 421-42  | 30.7 | 532       |
| 160 | Strategies for developing Green Super Rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 16402-9  | 11.5 | 526       |
| 159 | Linking differential domain functions of the GS3 protein to natural variation of grain size in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 19579-84  | 11.5 | 429       |
| 158 | A long noncoding RNA regulates photoperiod-sensitive male sterility, an essential component of hybrid rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 2654-9   | 11.5 | 412       |
| 157 | Xa26, a gene conferring resistance to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> in rice, encodes an LRR receptor kinase-like protein. <i>Plant Journal</i> , <b>2004</b> , 37, 517-27  | 6.9  | 366       |
| 156 | Promoter mutations of an essential gene for pollen development result in disease resistance in rice. <i>Genes and Development</i> , <b>2006</b> , 20, 1250-5   | 12.6 | 363       |
| 155 | Field performance of transgenic elite commercial hybrid rice expressing bacillus thuringiensis delta-endotoxin. <i>Nature Biotechnology</i> , <b>2000</b> , 18, 1101-4   | 44.5 | 356       |
| 154 | Combining high-throughput phenotyping and genome-wide association studies to reveal natural genetic variation in rice. <i>Nature Communications</i> , <b>2014</b> , 5, 5087  | 17.4 | 316       |
| 153 | Single-locus heterotic effects and dominance by dominance interactions can adequately explain the genetic basis of heterosis in an elite rice hybrid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 2574-9 | 11.5 | 300       |
| 152 | Genetic basis of drought resistance at reproductive stage in rice: separation of drought tolerance from drought avoidance. <i>Genetics</i> , <b>2006</b> , 172, 1213-28  | 4    | 292       |
| 151 | A dynamic gene expression atlas covering the entire life cycle of rice. <i>Plant Journal</i> , <b>2010</b> , 61, 752-66  | 6.9  | 272       |
| 150 | Optimising the tissue culture conditions for high efficiency transformation of indica rice. <i>Plant Cell Reports</i> , <b>2005</b> , 23, 540-7  | 5.1  | 261       |

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|-----|---|------|-----|
| 149 | Parent-independent genotyping for constructing an ultrahigh-density linkage map based on population sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 10578-83                          | 11.5 | 238 |
| 148 | The three important traits for cooking and eating quality of rice grains are controlled by a single locus in an elite rice hybrid, Shanyou 63. <i>Theoretical and Applied Genetics</i> , <b>1999</b> , 99, 642-8  | 6    | 226 |
| 147 | Genetic bases of appearance quality of rice grains in Shanyou 63, an elite rice hybrid. <i>Theoretical and Applied Genetics</i> , <b>2000</b> , 101, 823-829  | 6    | 215 |
| 146 | A triallelic system of S5 is a major regulator of the reproductive barrier and compatibility of indica-japonica hybrids in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 11436-41         | 11.5 | 211 |
| 145 | Development of enhancer trap lines for functional analysis of the rice genome. <i>Plant Journal</i> , <b>2003</b> , 35, 418-27  | 6.9  | 210 |
| 144 | Gains in QTL detection using an ultra-high density SNP map based on population sequencing relative to traditional RFLP/SSR markers. <i>PLoS ONE</i> , <b>2011</b> , 6, e17595   | 3.7  | 192 |
| 143 | Genetic diversity and differentiation of indica and japonica rice detected by RFLP analysis. <i>Theoretical and Applied Genetics</i> , <b>1992</b> , 83, 495-9  | 6    | 190 |
| 142 | Genetic dissection of an elite rice hybrid revealed that heterozygotes are not always advantageous for performance. <i>Genetics</i> , <b>2002</b> , 162, 1885-95  | 4    | 188 |
| 141 | Rice mutant resources for gene discovery. <i>Plant Molecular Biology</i> , <b>2004</b> , 54, 325-34   | 4.6  | 185 |
| 140 | A killer-protector system regulates both hybrid sterility and segregation distortion in rice. <i>Science</i> , <b>2012</b> , 337, 1336-40   | 33.3 | 179 |
| 139 | RMD: a rice mutant database for functional analysis of the rice genome. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, D745-8  | 20.1 | 171 |
| 138 | A high-density SNP genotyping array for rice biology and molecular breeding. <i>Molecular Plant</i> , <b>2014</b> , 7, 541-53   | 14.4 | 168 |
| 137 | Transgenic indica rice plants harboring a synthetic cry2A* gene of <i>Bacillus thuringiensis</i> exhibit enhanced resistance against lepidopteran rice pests. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 111, 1330-7 <sup>6</sup>                |      | 167 |
| 136 | RID1, encoding a Cys2/His2-type zinc finger transcription factor, acts as a master switch from vegetative to floral development in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 12915-20 | 11.5 | 166 |
| 135 | Development of insect-resistant transgenic indica rice with a synthetic cry1C* gene. <i>Molecular Breeding</i> , <b>2006</b> , 18, 1-10   | 3.4  | 163 |
| 134 | Coordinated regulation of vegetative and reproductive branching in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 15504-9  | 11.5 | 156 |
| 133 | Overexpressed glutamine synthetase gene modifies nitrogen metabolism and abiotic stress responses in rice. <i>Plant Cell Reports</i> , <b>2009</b> , 28, 527-37   | 5.1  | 151 |
| 132 | Genetic composition of yield heterosis in an elite rice hybrid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 15847-52  | 11.5 | 151 |

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| 131 | Expression profiles of 10,422 genes at early stage of low nitrogen stress in rice assayed using a cDNA microarray. <i>Plant Molecular Biology</i> , <b>2006</b> , 60, 617-31  | 4.6  | 151 |
| 130 | Improvement of Bacterial Blight Resistance of Minghui 63 an Elite Restorer Line of Hybrid Rice, by Molecular Marker-Assisted Selection. <i>Crop Science</i> , <b>2000</b> , 40, 239-244   | 2.4  | 148 |
| 129 | Predicting hybrid performance in rice using genomic best linear unbiased prediction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 12456-61                                       | 11.5 | 144 |
| 128 | Comparative analysis of microsatellite DNA polymorphism in landraces and cultivars of rice. <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 245, 187-94  |      | 144 |
| 127 | Extensive sequence divergence between the reference genomes of two elite indica rice varieties Zhenshan 97 and Minghui 63. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E5163-71 | 11.5 | 141 |
| 126 | Mutant resources in rice for functional genomics of the grasses. <i>Plant Physiology</i> , <b>2009</b> , 149, 165-70  | 6.6  | 138 |
| 125 | The rice genome revolution: from an ancient grain to Green Super Rice. <i>Nature Reviews Genetics</i> , <b>2018</b> , 19, 505-517   | 30.1 | 135 |
| 124 | Targeting xa13, a recessive gene for bacterial blight resistance in rice. <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 112, 455-61   | 6    | 133 |
| 123 | PMS1T, producing phased small-interfering RNAs, regulates photoperiod-sensitive male sterility in rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 15144-15149                 | 11.5 | 133 |
| 122 | Genetic analysis of the metabolome exemplified using a rice population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 20320-5   | 11.5 | 131 |
| 121 | Grain number, plant height, and heading date7 is a central regulator of growth, development, and stress response. <i>Plant Physiology</i> , <b>2014</b> , 164, 735-47   | 6.6  | 130 |
| 120 | The main effects, epistatic effects and environmental interactions of QTLs on the cooking and eating quality of rice in a doubled-haploid line population. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 110, 1445-52                 | 6    | 129 |
| 119 | Plant nutriomics in China: an overview. <i>Annals of Botany</i> , <b>2006</b> , 98, 473-82  | 4.1  | 121 |
| 118 | Allelic diversity in an NLR gene enables rice to combat planthopper variation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 12850-12855  | 11.5 | 120 |
| 117 | A whole-genome SNP array (RICE6K) for genomic breeding in rice. <i>Plant Biotechnology Journal</i> , <b>2014</b> , 12, 28-37  | 11.6 | 120 |
| 116 | Genetic basis of 17 traits and viscosity parameters characterizing the eating and cooking quality of rice grain. <i>Theoretical and Applied Genetics</i> , <b>2007</b> , 115, 463-76  | 6    | 120 |
| 115 | Breeding signatures of rice improvement revealed by a genomic variation map from a large germplasm collection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E5411-9              | 11.5 | 116 |
| 114 | The rice YABBY1 gene is involved in the feedback regulation of gibberellin metabolism. <i>Plant Physiology</i> , <b>2007</b> , 144, 121-33  | 6.6  | 111 |

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|-----|--|------|-----|
| 113 | Comparative analyses of genomic locations and race specificities of loci for quantitative resistance to <i>Pyricularia grisea</i> in rice and barley. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 2544-9 | 11.5 | 111 |
| 112 | New gene for bacterial blight resistance in rice located on chromosome 12 identified from minghui 63, an elite restorer line. <i>Phytopathology</i> , <b>2002</b> , 92, 750-4  | 3.8  | 109 |
| 111 | QTLs for low nitrogen tolerance at seedling stage identified using a recombinant inbred line population derived from an elite rice hybrid. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 112, 85-96  | 6    | 107 |
| 110 | Rice APOPTOSIS INHIBITOR5 coupled with two DEAD-box adenosine 5'-triphosphate-dependent RNA helicases regulates tapetum degeneration. <i>Plant Cell</i> , <b>2011</b> , 23, 1416-34  | 11.6 | 106 |
| 109 | Non-random distribution of T-DNA insertions at various levels of the genome hierarchy as revealed by analyzing 13 804 T-DNA flanking sequences from an enhancer-trap mutant library. <i>Plant Journal</i> , <b>2007</b> , 49, 947-59                                     | 6.9  | 98  |
| 108 | Identification of quantitative trait loci and epistatic interactions for plant height and heading date in rice. <i>Theoretical and Applied Genetics</i> , <b>2002</b> , 104, 619-625   | 6    | 98  |
| 107 | RNA-directed DNA methylation is involved in regulating photoperiod-sensitive male sterility in rice. <i>Molecular Plant</i> , <b>2012</b> , 5, 1210-6  | 14.4 | 96  |
| 106 | FLEXIBLE CULM 1 encoding a cinnamyl-alcohol dehydrogenase controls culm mechanical strength in rice. <i>Plant Molecular Biology</i> , <b>2009</b> , 69, 685-97   | 4.6  | 96  |
| 105 | Rice 2020: a call for an international coordinated effort in rice functional genomics. <i>Molecular Plant</i> , <b>2008</b> , 1, 715-9   | 14.4 | 95  |
| 104 | A G-protein pathway determines grain size in rice. <i>Nature Communications</i> , <b>2018</b> , 9, 851   | 17.4 | 91  |
| 103 | Heterosis and polymorphisms of gene expression in an elite rice hybrid as revealed by a microarray analysis of 9198 unique ESTs. <i>Plant Molecular Biology</i> , <b>2006</b> , 62, 579-91   | 4.6  | 91  |
| 102 | Molecular marker heterozygosity and hybrid performance in indica and japonica rice. <i>Theoretical and Applied Genetics</i> , <b>1996</b> , 93, 1218-24  | 6    | 90  |
| 101 | Over-expression of aspartate aminotransferase genes in rice resulted in altered nitrogen metabolism and increased amino acid content in seeds. <i>Theoretical and Applied Genetics</i> , <b>2009</b> , 118, 1381-90  | 6    | 89  |
| 100 | KT/HAK/KUP potassium transporters gene family and their whole-life cycle expression profile in rice ( <i>Oryza sativa</i> ). <i>Molecular Genetics and Genomics</i> , <b>2008</b> , 280, 437-52  | 3.1  | 86  |
| 99  | Mutant resources for the functional analysis of the rice genome. <i>Molecular Plant</i> , <b>2013</b> , 6, 596-604   | 14.4 | 84  |
| 98  | Rice functional genomics research: progress and implications for crop genetic improvement. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 1059-70   | 17.8 | 83  |
| 97  | Metabolomic prediction of yield in hybrid rice. <i>Plant Journal</i> , <b>2016</b> , 88, 219-227   | 6.9  | 77  |
| 96  | Fine mapping of a major quantitative trait loci, qSSP7, controlling the number of spikelets per panicle as a single Mendelian factor in rice. <i>Theoretical and Applied Genetics</i> , <b>2008</b> , 116, 789-96  | 6    | 76  |

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|----|--|------|----|
| 95 | Rice Functional Genomics Research: Past Decade and Future. <i>Molecular Plant</i> , <b>2018</b> , 11, 359-380  | 14.4 | 75 |
| 94 | Understanding reproductive isolation based on the rice model. <i>Annual Review of Plant Biology</i> , <b>2013</b> , 64, 111-35   | 30.7 | 75 |
| 93 | CHD3 protein recognizes and regulates methylated histone H3 lysines 4 and 27 over a subset of targets in the rice genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 5773-8 | 11.5 | 75 |
| 92 | Comprehensive sequence and expression profile analysis of Hsp20 gene family in rice. <i>Plant Molecular Biology</i> , <b>2009</b> , 70, 341-57   | 4.6  | 73 |
| 91 | Differential expression of GS5 regulates grain size in rice. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 2611-23   | 7.2  | 72 |
| 90 | Quantitative trait loci for panicle size, heading date and plant height co-segregating in trait-performance derived near-isogenic lines of rice ( <i>Oryza sativa</i> ). <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 113, 361-8  | 6    | 71 |
| 89 | Hybrid sterility in plant: stories from rice. <i>Current Opinion in Plant Biology</i> , <b>2010</b> , 13, 186-92   | 9.9  | 69 |
| 88 | Analyzing quantitative trait loci for yield using a vegetatively replicated F2 population from a cross between the parents of an elite rice hybrid. <i>Theoretical and Applied Genetics</i> , <b>2000</b> , 101, 248-254                     | 6    | 69 |
| 87 | Designing Future Crops: Genomics-Assisted Breeding Comes of Age. <i>Trends in Plant Science</i> , <b>2021</b> , 26, 631-649  | 13.1 | 68 |
| 86 | 5Gs for crop genetic improvement. <i>Current Opinion in Plant Biology</i> , <b>2020</b> , 56, 190-196  | 9.9  | 64 |
| 85 | Molecular divergence and hybrid performance in rice. <i>Molecular Breeding</i> , <b>1995</b> , 1, 133-142  | 3.4  | 64 |
| 84 | Replication protein A (RPA1a) is required for meiotic and somatic DNA repair but is dispensable for DNA replication and homologous recombination in rice. <i>Plant Physiology</i> , <b>2009</b> , 151, 2162-73                               | 6.6  | 61 |
| 83 | Genetic dissection of embryo sac fertility, pollen fertility, and their contributions to spikelet fertility of intersubspecific hybrids in rice. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 110, 205-11                         | 6    | 61 |
| 82 | XIAO is involved in the control of organ size by contributing to the regulation of signaling and homeostasis of brassinosteroids and cell cycling in rice. <i>Plant Journal</i> , <b>2012</b> , 70, 398-408                                  | 6.9  | 59 |
| 81 | Genetic basis of low-temperature-sensitive sterility in indica-japonica hybrids of rice as determined by RFLP analysis. <i>Theoretical and Applied Genetics</i> , <b>1997</b> , 95, 1092-1097  | 6    | 56 |
| 80 | Pathotypes of <i>Pyricularia grisea</i> in Rice Fields of Central and Southern China. <i>Plant Disease</i> , <b>2001</b> , 85, 843-850   | 1.5  | 56 |
| 79 | Mutation of the rice gene PAIR3 results in lack of bivalent formation in meiosis. <i>Plant Journal</i> , <b>2009</b> , 59, 303-15  | 6.9  | 54 |
| 78 | An analysis of hybrid sterility in rice using a diallel cross of 21 parents involving indica, japonica and wide compatibility varieties. <i>Euphytica</i> , <b>1996</b> , 90, 275-280  | 2.1  | 54 |

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|----|---|------|----|
| 77 | A global analysis of QTLs for expression variations in rice shoots at the early seedling stage. <i>Plant Journal</i> , <b>2010</b> , 63, 1063-74  | 6.9  | 52 |
| 76 | Sequence and expression analysis of the thioredoxin protein gene family in rice. <i>Molecular Genetics and Genomics</i> , <b>2008</b> , 280, 139-51   | 3.1  | 51 |
| 75 | How can we use genomics to improve cereals with rice as a reference genome?. <i>Plant Molecular Biology</i> , <b>2005</b> , 59, 7-26  | 4.6  | 51 |
| 74 | OsBC1L4 encodes a COBRA-like protein that affects cellulose synthesis in rice. <i>Plant Molecular Biology</i> , <b>2011</b> , 75, 333-45  | 4.6  | 50 |
| 73 | Sequence and expression analysis of the C3HC4-type RING finger gene family in rice. <i>Gene</i> , <b>2009</b> , 444, 33-45  | 3.8  | 50 |
| 72 | Heterosis in elite hybrid rice: speculation on the genetic and biochemical mechanisms. <i>Current Opinion in Plant Biology</i> , <b>2013</b> , 16, 221-7  | 9.9  | 49 |
| 71 | Aspartic proteases gene family in rice: Gene structure and expression, predicted protein features and phylogenetic relation. <i>Gene</i> , <b>2009</b> , 442, 108-18  | 3.8  | 49 |
| 70 | Hybrid breeding of rice via genomic selection. <i>Plant Biotechnology Journal</i> , <b>2020</b> , 18, 57-67   | 11.6 | 49 |
| 69 | Effect of Transgenic <i>Bacillus thuringiensis</i> Rice Lines on Mortality and Feeding Behavior of Rice Stem Borers (Lepidoptera: Crambidae). <i>Journal of Economic Entomology</i> , <b>2008</b> , 101, 182-189                                | 2.2  | 47 |
| 68 | Delimitation of the rice wide compatibility gene S5 ( n ) to a 40-kb DNA fragment. <i>Theoretical and Applied Genetics</i> , <b>2005</b> , 111, 1080-6  | 6    | 47 |
| 67 | Patterns of genome-wide allele-specific expression in hybrid rice and the implications on the genetic basis of heterosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5653-5658 | 11.5 | 45 |
| 66 | An expression quantitative trait loci-guided co-expression analysis for constructing regulatory network using a rice recombinant inbred line population. <i>Journal of Experimental Botany</i> , <b>2014</b> , 65, 1069-79                      | 7.9  | 45 |
| 65 | Identification of an 85-kb DNA fragment containing pms1, a locus for photoperiod-sensitive genic male sterility in rice. <i>Molecular Genetics and Genomics</i> , <b>2001</b> , 266, 271-5  | 3.1  | 43 |
| 64 | Mapping and Genetic Analysis of the Genes for Photoperiod-Sensitive Genic Male Sterility in Rice Using the Original Mutant Nongken 58S. <i>Crop Science</i> , <b>1999</b> , 39, 1711-1715   | 2.4  | 43 |
| 63 | Advances in the understanding of inter-subspecific hybrid sterility and wide-compatibility in rice. <i>Science Bulletin</i> , <b>2009</b> , 54, 2332-2341   |      | 41 |
| 62 | Molecular analyses of the rice glutamate dehydrogenase gene family and their response to nitrogen and phosphorous deprivation. <i>Plant Cell Reports</i> , <b>2009</b> , 28, 1115-26  | 5.1  | 41 |
| 61 | Relationships of differential gene expression in leaves with heterosis and heterozygosity in a rice diallel cross. <i>Molecular Breeding</i> , <b>1998</b> , 4, 129-136   | 3.4  | 40 |
| 60 | The QTL controlling amino acid content in grains of rice ( <i>Oryza sativa</i> ) are co-localized with the regions involved in the amino acid metabolism pathway. <i>Molecular Breeding</i> , <b>2007</b> , 21, 127-137                         | 3.4  | 40 |

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|----|---|------|----|
| 59 | Chromatin loops associated with active genes and heterochromatin shape rice genome architecture for transcriptional regulation. <i>Nature Communications</i> , <b>2019</b> , 10, 3640                               | 17.4 | 39 |
| 58 | Features of the expressed sequences revealed by a large-scale analysis of ESTs from a normalized cDNA library of the elite indica rice cultivar Minghui 63. <i>Plant Journal</i> , <b>2005</b> , 42, 772-80         | 6.9  | 39 |
| 57 | Genetic and molecular characterization of photoperiod and thermo-sensitive male sterility in rice. <i>Plant Reproduction</i> , <b>2018</b> , 31, 3-14   | 3.9  | 38 |
| 56 | The rice HGW gene encodes a ubiquitin-associated (UBA) domain protein that regulates heading date and grain weight. <i>PLoS ONE</i> , <b>2012</b> , 7, e34231   | 3.7  | 37 |
| 55 | Boosting Rice Yield by Fine-Tuning SPL Gene Expression. <i>Trends in Plant Science</i> , <b>2017</b> , 22, 643-646  | 13.1 | 36 |
| 54 | Male and female gamete abortions, and reduced affinity between the uniting gametes as the causes for sterility in an indica/japonica hybrid in rice. <i>Sexual Plant Reproduction</i> , <b>2004</b> , 17, 55        |      | 36 |
| 53 | OsAP65, a rice aspartic protease, is essential for male fertility and plays a role in pollen germination and pollen tube growth. <i>Journal of Experimental Botany</i> , <b>2013</b> , 64, 3351-60                  | 7    | 35 |
| 52 | Fine mapping of f5-Du, a gene conferring wide-compatibility for pollen fertility in inter-subspecific hybrids of rice ( <i>Oryza sativa</i> L.). <i>Theoretical and Applied Genetics</i> , <b>2006</b> , 112, 382-7 | 6    | 32 |
| 51 | Review and prospect of transgenic rice research. <i>Science Bulletin</i> , <b>2009</b> , 54, 4049-4068  |      | 31 |
| 50 | Heterosis in rice seedlings: its relationship to gibberellin content and expression of gibberellin metabolism and signaling genes. <i>Plant Physiology</i> , <b>2011</b> , 156, 1905-20                             | 6.6  | 31 |
| 49 | The defense-responsive genes showing enhanced and repressed expression after pathogen infection in rice ( <i>Oryza sativa</i> L.). <i>Science in China Series C: Life Sciences</i> , <b>2002</b> , 45, 449-67       |      | 31 |
| 48 | The ankyrin repeat gene family in rice: genome-wide identification, classification and expression profiling. <i>Plant Molecular Biology</i> , <b>2009</b> , 71, 207-26  | 4.6  | 30 |
| 47 | Establishment of a patterned GAL4-VP16 transactivation system for discovering gene function in rice. <i>Plant Journal</i> , <b>2006</b> , 46, 1059-72   | 6.9  | 29 |
| 46 | Complex evolution of S5, a major reproductive barrier regulator, in the cultivated rice <i>Oryza sativa</i> and its wild relatives. <i>New Phytologist</i> , <b>2011</b> , 191, 275-287                             | 9.8  | 27 |
| 45 | Integrative analysis of reference epigenomes in 20 rice varieties. <i>Nature Communications</i> , <b>2020</b> , 11, 26581   | 7.4  | 25 |
| 44 | Stacking S5-n and f5-n to overcome sterility in indica-japonica hybrid rice. <i>Theoretical and Applied Genetics</i> , <b>2016</b> , 129, 563-75  | 6    | 23 |
| 43 | Rice functional genomics research in China. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2007</b> , 362, 1009-21  | 5.8  | 23 |
| 42 | Cis-directed cleavage and nonstoichiometric abundances of 21-nucleotide reproductive phased small interfering RNAs in grasses. <i>New Phytologist</i> , <b>2018</b> , 220, 865-877                                  | 9.8  | 22 |



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| 41 | Molecular characterization, expression pattern, and function analysis of the OsBC1L family in rice. <i>Plant Molecular Biology</i> , <b>2009</b> , 71, 469-81  | 4.6  | 22 |
| 40 | RICD: a rice indica cDNA database resource for rice functional genomics. <i>BMC Plant Biology</i> , <b>2008</b> , 8, 1185-3  |      | 22 |
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