

Xiwen Cai

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,775
citations

257450

24
h-index

289244

40
g-index

60
all docs

60
docs citations

60
times ranked

1250
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Targeted Introgression of a Wheat Stem Rust Resistance Gene by DNA Marker-Assisted Chromosome Engineering. <i>Genetics</i> , 2011, 187, 1011-1021. | 2.9 | 133 |
| 2 | Development and characterization of wheat lines carrying stem rust resistance gene Sr43 derived from <i>Thinopyrum ponticum</i> . <i>Theoretical and Applied Genetics</i> , 2014, 127, 969-980. | 3.6 | 95 |
| 3 | Evaluation of Fusarium Head Blight Resistance in Tetraploid Wheat (<i>Triticum turgidum</i> L.). <i>Crop Science</i> , 2008, 48, 213-222. | 1.8 | 85 |
| 4 | Introgression and Characterization of a Goatgrass Gene for a High Level of Resistance to Ug99 Stem Rust in Tetraploid Wheat. <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 665-673. | 1.8 | 81 |
| 5 | Molecular and cytogenetic characterization of a durum wheat "Aegilops speltoides chromosome translocation conferring resistance to stem rust. <i>Chromosome Research</i> , 2008, 16, 1097-1105. | 2.2 | 77 |
| 6 | Meiosis-Driven Genome Variation in Plants. <i>Current Genomics</i> , 2007, 8, 151-161. | 1.6 | 75 |
| 7 | Saturation and comparative mapping of a major Fusarium head blight resistance QTL in tetraploid wheat. <i>Molecular Breeding</i> , 2007, 19, 113-124. | 2.1 | 75 |
| 8 | Evaluation and Characterization of Seedling Resistances to Stem Rust Ug99 Races in Wheat "Alien Species Derivatives. <i>Crop Science</i> , 2009, 49, 2167-2175. | 1.8 | 62 |
| 9 | Genetic characterization and molecular mapping of Hessian fly resistance genes derived from <i>Aegilops tauschii</i> in synthetic wheat. <i>Theoretical and Applied Genetics</i> , 2006, 113, 611-618. | 3.6 | 59 |
| 10 | Reaction of Wild Emmer Wheat Accessions to Fusarium Head Blight. <i>Crop Science</i> , 2007, 47, 893-897. | 1.8 | 59 |
| 11 | Perennial wheat: The development of a sustainable cropping system for the U.S. Pacific Northwest. <i>Renewable Agriculture and Food Systems</i> , 2001, 16, 147-151. | 0.5 | 55 |
| 12 | Identification and molecular mapping of quantitative trait loci for Fusarium head blight resistance in emmer and durum wheat using a single nucleotide polymorphism-based linkage map. <i>Molecular Breeding</i> , 2014, 34, 1677-1687. | 2.1 | 55 |
| 13 | A single chromosome addition from <i>Thinopyrum elongatum</i> confers a polycarpic, perennial habit to annual wheat. <i>Journal of Experimental Botany</i> , 2004, 55, 1715-1720. | 4.8 | 52 |
| 14 | Molecular cytogenetic characterization of <i>Thinopyrum</i> and wheat- <i>Thinopyrum</i> translocated chromosomes in a wheat- <i>Thinopyrum</i> amphiploid. <i>Chromosome Research</i> , 1998, 6, 183-189. | 2.2 | 48 |
| 15 | Utilization of alien genes to enhance Fusarium head blight resistance in wheat " A review. <i>Euphytica</i> , 2005, 142, 309-318. | 1.2 | 48 |
| 16 | Molecular cytogenetic characterization of four partial wheat- <i>Thinopyrum ponticum</i> amphiploids and their reactions to Fusarium head blight, tan spot, and <i>Stagonospora nodorum</i> blotch. <i>Theoretical and Applied Genetics</i> , 2006, 112, 1473-1479. | 3.6 | 45 |
| 17 | Mechanism of haploidy-dependent unreductional meiotic cell division in polyploid wheat. <i>Chromosoma</i> , 2010, 119, 275-285. | 2.2 | 40 |
| 18 | Saturation and comparative mapping of the genomic region harboring Hessian fly resistance gene H26 in wheat. <i>Theoretical and Applied Genetics</i> , 2009, 118, 1589-1599. | 3.6 | 37 |

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|----|---|-----|-----------|
| 19 | Characterization of an <i>Agropyron elongatum</i> chromosome conferring resistance to cephalosporium stripe in common wheat. <i>Genome</i> , 1996, 39, 56-62. | 2.0 | 35 |
| 20 | Diversifying Sunflower Germplasm by Integration and Mapping of a Novel Male Fertility Restoration Gene. <i>Genetics</i> , 2013, 193, 727-737. | 2.9 | 32 |
| 21 | Diverse cell wall composition and varied biomass digestibility in wheat straw for bioenergy feedstock. <i>Biomass and Bioenergy</i> , 2014, 70, 347-355. | 5.7 | 30 |
| 22 | Molecular cytogenetic and genomic analyses reveal new insights into the origin of the wheat B genome. <i>Theoretical and Applied Genetics</i> , 2018, 131, 365-375. | 3.6 | 28 |
| 23 | Meiotic Homoeologous Recombination-Based Alien Gene Introgression in the Genomics Era of Wheat. <i>Crop Science</i> , 2017, 57, 1189-1198. | 1.8 | 27 |
| 24 | Homoeology of <i>Thinopyrum junceum</i> and <i>Elymus rectisetus</i> chromosomes to wheat and disease resistance conferred by the <i>Thinopyrum</i> and <i>Elymus</i> chromosomes in wheat. <i>Chromosome Research</i> , 2012, 20, 699-715. | 2.2 | 25 |
| 25 | Resistance to Tan Spot and <i>Stagonospora nodorum</i> Blotch in Wheat-Alien Species Derivatives. <i>Plant Disease</i> , 2008, 92, 150-157. | 1.4 | 24 |
| 26 | Toward a better understanding of the genomic region harboring <i>Fusarium</i> head blight resistance QTL <i>Qfhs.ndsu-3AS</i> in durum wheat. <i>Theoretical and Applied Genetics</i> , 2016, 129, 31-43. | 3.6 | 24 |
| 27 | Molecular and Cytogenetic Characterization of the 5DS-5BS Chromosome Translocation Conditioning Soft Kernel Texture in Durum Wheat. <i>Plant Genome</i> , 2017, 10, plantgenome2017.04.0031. | 2.8 | 24 |
| 28 | Delimitation of wheat <i>ph1b</i> deletion and development of <i>ph1b</i> -specific DNA markers. <i>Theoretical and Applied Genetics</i> , 2019, 132, 195-204. | 3.6 | 24 |
| 29 | Meiotic homoeologous recombination-based mapping of wheat chromosome 2B and its homoeologues in <i>Aegilops speltoides</i> and <i>Thinopyrum elongatum</i> . <i>Theoretical and Applied Genetics</i> , 2018, 131, 2381-2395. | 3.6 | 21 |
| 30 | Genetic Diversity and Resistance to <i>Fusarium</i> Head Blight in Synthetic Hexaploid Wheat Derived From <i>Aegilops tauschii</i> and Diverse <i>Triticum turgidum</i> Subspecies. <i>Frontiers in Plant Science</i> , 2018, 9, 1829. | 3.6 | 20 |
| 31 | Molecular cytogenetic characterization and seed storage protein analysis of 1A/1D translocation lines of durum wheat. <i>Chromosome Research</i> , 2005, 13, 559-568. | 2.2 | 19 |
| 32 | Genetic Diversity and Relationships among 177 Public Sunflower Inbred Lines Assessed by TRAP Markers. <i>Crop Science</i> , 2009, 49, 1242-1249. | 1.8 | 19 |
| 33 | Identification of a 1B/1R wheat-rye chromosome translocation. <i>Theoretical and Applied Genetics</i> , 1989, 77, 81-83. | 3.6 | 18 |
| 34 | Toward a Molecular Cytogenetic Map for Cultivated Sunflower (<i>Helianthus annuus</i> L.) by Landed BAC/BIBAC Clones. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 31-40. | 1.8 | 17 |
| 35 | Molecular and Cytogenetic Characterization of Six Wheat- <i>Aegilops markgrafii</i> Disomic Addition Lines and Their Resistance to Rusts and Powdery Mildew. <i>Frontiers in Plant Science</i> , 2018, 9, 1616. | 3.6 | 17 |
| 36 | Function and evolution of allelic variations of <i>Sr13</i> conferring resistance to stem rust in tetraploid wheat (<i>Triticum turgidum</i> L.). <i>Plant Journal</i> , 2021, 106, 1674-1691. | 5.7 | 15 |

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|----|--|-----|-----------|
| 37 | Development and Validation of Molecular Markers Closely Linked to <i>H32</i> for Resistance to Hessian Fly in Wheat. <i>Crop Science</i> , 2010, 50, 1325-1332. | 1.8 | 14 |
| 38 | Molecular and Cytogenetic Characterization of Wheat Introgression Lines Carrying the Stem Rust Resistance Gene <i>Sr39</i> . <i>Crop Science</i> , 2010, 50, 1393-1400. | 1.8 | 14 |
| 39 | Triploid Production from Interspecific Crosses of Two Diploid Perennial <i>Helianthus</i> with Diploid Cultivated Sunflower (<i>Helianthus annuus</i> L.). <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 1097-1108. | 1.8 | 14 |
| 40 | Characterization of recombinants of the <i>Aegilops peregrina</i> -derived <i>Lr59</i> translocation of common wheat. <i>Theoretical and Applied Genetics</i> , 2015, 128, 2403-2414. | 3.6 | 13 |
| 41 | Genetic characterization and molecular mapping of a chlorophyll deficiency gene in sunflower (<i>Helianthus annuus</i>). <i>Journal of Plant Physiology</i> , 2009, 166, 644-651. | 3.5 | 12 |
| 42 | Chromosome engineering-mediated introgression and molecular mapping of novel <i>Aegilops speltoides</i> -derived resistance genes for tan spot and <i>Septoria nodorum</i> blotch diseases in wheat. <i>Theoretical and Applied Genetics</i> , 2019, 132, 2605-2614. | 3.6 | 11 |
| 43 | Re-evolution of Durum Wheat by Introducing the Hardness and <i>Glu-D1</i> Loci. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, . | 3.9 | 11 |
| 44 | Chromosome Translocations in the Common Wheat Variety "Amigo". <i>Hereditas</i> , 2004, 121, 199-202. | 1.4 | 8 |
| 45 | Effects of D-Genome Chromosomes and Their A/B-Genome Homoeologs on <i>Fusarium</i> Head Blight Resistance in Durum Wheat. <i>Crop Science</i> , 2016, 56, 1049-1058. | 1.8 | 8 |
| 46 | Chromosome Painting by GISH and Multicolor FISH. <i>Methods in Molecular Biology</i> , 2016, 1429, 7-21. | 0.9 | 8 |
| 47 | Cloning and characterization of the homoeologous genes for the <i>Rec8</i> -like meiotic cohesin in polyploid wheat. <i>BMC Plant Biology</i> , 2018, 18, 224. | 3.6 | 8 |
| 48 | Identification of a conserved <i>ph1b</i> -mediated 5DS-5BS crossing over site in soft-kernel durum wheat (<i>Triticum turgidum</i> subsp. <i>durum</i>) lines. <i>Euphytica</i> , 2019, 215, 1. | 1.2 | 8 |
| 49 | A Genomic Comparison of Homoeologous Recombinants of the <i>Lr19</i> (T4) Translocation in Wheat. <i>Crop Science</i> , 2014, 54, 565-575. | 1.8 | 7 |
| 50 | Interspecific amphiploid-derived alloplasmic male sterility with defective anthers, narrow disc florets and small ray flowers in sunflower. <i>Plant Breeding</i> , 2014, 133, 742-747. | 1.9 | 7 |
| 51 | Toward a taxonomic definition of perennial wheat: a new species <i>Tritopyrum aaseae</i> described. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 1651-1659. | 1.6 | 7 |
| 52 | Dissection and physical mapping of wheat chromosome 7B by inducing meiotic recombination with its homoeologues in <i>Aegilops speltoides</i> and <i>Thinopyrum elongatum</i> . <i>Theoretical and Applied Genetics</i> , 2020, 133, 3455-3467. | 3.6 | 6 |
| 53 | Evaluation and Haplotype Analysis of Elite Synthetic Hexaploid Wheat Lines for Resistance to Hessian Fly. <i>Crop Science</i> , 2012, 52, 752-763. | 1.8 | 5 |
| 54 | Mapping of <i>Lr56</i> translocation recombinants in wheat. <i>Plant Breeding</i> , 2016, 135, 413-419. | 1.9 | 4 |

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|----|--|-----|-----------|
| 55 | Partitioning and physical mapping of wheat chromosome 3B and its homoeologue 3E in <i>Thinopyrum elongatum</i> by inducing homoeologous recombination. <i>Theoretical and Applied Genetics</i> , 2020, 133, 1277-1289. | 3.6 | 4 |
| 56 | Haplotype variants of Sr46 in <i>Aegilops tauschii</i> , the diploid D genome progenitor of wheat. <i>Theoretical and Applied Genetics</i> , 2022, 135, 2627-2639. | 3.6 | 2 |
| 57 | Engineered Versions of the Wheat Lr62 Translocation. <i>Crop Science</i> , 2017, 57, 1898-1905. | 1.8 | 1 |
| 58 | Genomic compatibility and inheritance of hexaploid-derived Fusarium head blight resistance genes in durum wheat. <i>Plant Genome</i> , 2022, , e20183. | 2.8 | 1 |