

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	Genomic compatibility and inheritance of hexaploid-derived Fusarium head blight resistance genes in durum wheat. <i>Plant Genome</i> , 2022, , e20183.	2.8	1
2	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
3	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
4	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
5	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
6	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
7	Re-evolution of Durum Wheat by Introducing the Hardness and Glu-D1 Loci. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, .	3.9	11
8	Identification of a conserved <i>ph1b</i> -mediated 5DS-5BS crossing over site in soft-kernel durum wheat (<i>Triticum turgidum</i> subsp. durum) lines. <i>Euphytica</i> , 2019, 215, 1.	1.2	8
9	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
10	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
11	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
12	Genetic Diversity and Resistance to Fusarium 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
13	Cloning and characterization of the homoeologous genes for the Rec8-like meiotic cohesin in polyploid wheat. <i>BMC Plant Biology</i> , 2018, 18, 224.	3.6	8
14	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
15	Meiotic Homoeologous Recombination-Based Alien Gene Introgression in the Genomics Era of Wheat. <i>Crop Science</i> , 2017, 57, 1189-1198.	1.8	27
16	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
17	Toward a taxonomic definition of perennial wheat: a new species <i>Tritipyrum aaseae</i> described. <i>Genetic Resources and Crop Evolution</i> , 2017, 64, 1651-1659.	1.6	7
18	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

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19	Engineered Versions of the Wheat Lr62 Translocation. <i>Crop Science</i> , 2017, 57, 1898-1905.	1.8	1
20	Effects of Dâ€œGenome Chromosomes and Their A/Bâ€œGenome Homoeologs on Fusarium Head Blight Resistance in Durum Wheat. <i>Crop Science</i> , 2016, 56, 1049-1058.	1.8	8
21	Mapping of <i>Lr56</i> translocation recombinants in wheat. <i>Plant Breeding</i> , 2016, 135, 413-419.	1.9	4
22	Chromosome Painting by GISH and Multicolor FISH. <i>Methods in Molecular Biology</i> , 2016, 1429, 7-21.	0.9	8
23	Toward a better understanding of the genomic region harboring Fusarium head blight resistance QTL Qfhs.ndsu-3AS in durum wheat. <i>Theoretical and Applied Genetics</i> , 2016, 129, 31-43.	3.6	24
24	Characterization of recombinants of the <i>Aegilops peregrina</i> -derived Lr59 translocation of common wheat. <i>Theoretical and Applied Genetics</i> , 2015, 128, 2403-2414.	3.6	13
25	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
26	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
27	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
28	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
29	Interspecific amphiploidâ€œderived 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
30	Diversifying Sunflower Germplasm by Integration and Mapping of a Novel Male Fertility Restoration Gene. <i>Genetics</i> , 2013, 193, 727-737.	2.9	32
31	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
32	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
33	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
34	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
35	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
36	Mechanism of haploidy-dependent unreductional meiotic cell division in polyploid wheat. <i>Chromosoma</i> , 2010, 119, 275-285.	2.2	40

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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	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
40	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
41	Saturation and comparative mapping of the genomic region harboring Hessian fly resistance gene <i>H26</i> in wheat. <i>Theoretical and Applied Genetics</i> , 2009, 118, 1589-1599.	3.6	37
42	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
43	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
44	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
45	Evaluation of <i>Fusarium</i> Head Blight Resistance in Tetraploid Wheat (<i>Triticum turgidum</i> L.). <i>Crop Science</i> , 2008, 48, 213-222.	1.8	85
46	Meiosis-Driven Genome Variation in Plants. <i>Current Genomics</i> , 2007, 8, 151-161.	1.6	75
47	Reaction of Wild Emmer Wheat Accessions to <i>Fusarium</i> Head Blight. <i>Crop Science</i> , 2007, 47, 893-897.	1.8	59
48	Saturation and comparative mapping of a major <i>Fusarium</i> head blight resistance QTL in tetraploid wheat. <i>Molecular Breeding</i> , 2007, 19, 113-124.	2.1	75
49	Molecular cytogenetic characterization of four partial wheat- <i>Thinopyrum ponticum</i> amphiploids and their reactions to <i>Fusarium</i> head blight, tan spot, and <i>Stagonospora nodorum</i> blotch. <i>Theoretical and Applied Genetics</i> , 2006, 112, 1473-1479.	3.6	45
50	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
51	Utilization of alien genes to enhance <i>Fusarium</i> head blight resistance in wheat " A review. <i>Euphytica</i> , 2005, 142, 309-318.	1.2	48
52	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
53	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
54	Chromosome Translocations in the Common Wheat Variety "Amigo"™. <i>Hereditas</i> , 2004, 121, 199-202.	1.4	8

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55	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
56	Molecular cytogenetic characterization of Thinopyrum and wheat-Thinopyrum translocated chromosomes in a wheat-Thinopyrum amphiploid. <i>Chromosome Research</i> , 1998, 6, 183-189.	2.2	48
57	Characterization of an Agropyron elongatum chromosome conferring resistance to cephalosporium stripe in common wheat. <i>Genome</i> , 1996, 39, 56-62.	2.0	35
58	Identification of a 1B/1R wheat-rye chromosome translocation. <i>Theoretical and Applied Genetics</i> , 1989, 77, 81-83.	3.6	18