

Steven S Xu

List of Publications by Year in descending order

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107
papers

6,668
citations

71061

41
h-index

76872

74
g-index

115
all docs

115
docs citations

115
times ranked

4322
citing authors

#	ARTICLE	IF	CITATIONS
1	Durum wheat genome highlights past domestication signatures and future improvement targets. <i>Nature Genetics</i> , 2019, 51, 885-895.	9.4	576
2	A unique wheat disease resistance-like gene governs effector-triggered susceptibility to necrotrophic pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 13544-13549.	3.3	450
3	Horizontal gene transfer of <i>Fhb7</i> from fungus underlies <i>Fusarium</i> head blight resistance in wheat. <i>Science</i> , 2020, 368, .	6.0	398
4	A high-density, SNP-based consensus map of tetraploid wheat as a bridge to integrate durum and bread wheat genomics and breeding. <i>Plant Biotechnology Journal</i> , 2015, 13, 648-663.	4.1	386
5	Resistance gene cloning from a wild crop relative by sequence capture and association genetics. <i>Nature Biotechnology</i> , 2019, 37, 139-143.	9.4	280
6	The Cysteine Rich Necrotrophic Effector SnTox1 Produced by <i>Stagonospora nodorum</i> Triggers Susceptibility of Wheat Lines Harboring Snn1. <i>PLoS Pathogens</i> , 2012, 8, e1002467.	2.1	233
7	The hijacking of a receptor kinase-driven pathway by a wheat fungal pathogen leads to disease. <i>Science Advances</i> , 2016, 2, e1600822.	4.7	188
8	Targeted Introgression of a Wheat Stem Rust Resistance Gene by DNA Marker-Assisted Chromosome Engineering. <i>Genetics</i> , 2011, 187, 1011-1021.	1.2	133
9	Genetic Diversity for Wheat Improvement as a Conduit to Food Security. <i>Advances in Agronomy</i> , 2013, , 179-257.	2.4	124
10	An innovative SNP genotyping method adapting to multiple platforms and throughputs. <i>Theoretical and Applied Genetics</i> , 2017, 130, 597-607.	1.8	124
11	Genetics of tan spot resistance in wheat. <i>Theoretical and Applied Genetics</i> , 2013, 126, 2197-2217.	1.8	117
12	Population genomic analysis of <i>Aegilops tauschii</i> identifies targets for bread wheat improvement. <i>Nature Biotechnology</i> , 2022, 40, 422-431.	9.4	102
13	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.	1.8	95
14	Genome-Wide Association Mapping of Leaf Rust Response in a Durum Wheat Worldwide Germplasm Collection. <i>Plant Genome</i> , 2016, 9, plantgenome2016.01.0008.	1.6	95
15	Evaluation of <i>Fusarium</i> Head Blight Resistance in Tetraploid Wheat (<i>Triticum turgidum</i> L.). <i>Crop Science</i> , 2008, 48, 213-222.	0.8	85
16	A consensus framework map of durum wheat (<i>Triticum durum</i> Desf.) suitable for linkage disequilibrium analysis and genome-wide association mapping. <i>BMC Genomics</i> , 2014, 15, 873.	1.2	85
17	Identification and Characterization of the SnTox6-Snn6 Interaction in the <i>Parastagonospora nodorum</i> Wheat Pathosystem. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 615-625.	1.4	85
18	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.	0.8	81

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19	Development, identification, and validation of markers for marker-assisted selection against the <i>Stagonospora nodorum</i> toxin sensitivity genes <i>Tsn1</i> and <i>Snn2</i> in wheat. <i>Molecular Breeding</i> , 2009, 23, 35-49.	1.0	80
20	<sc><sc>SnTox5</sc></sc>â€œ<i><sc><i>Snn5</i></sc></i>: a novel <i><sc>S</sc>tagonospora nodorum</i> effectorâ€œ wheat gene interaction and its relationship with the <sc><sc>SnToxA</sc></sc>â€œ<i><sc>Tsn1</sc></i> and <sc><sc>SnTox3</sc></sc>â€œ<i><sc><i>Snn3</i></sc></i>â€œ<i><sc>B1</sc></i> interactions. <i>Molecular Plant Pathology</i> , 2012, 13, 1101-1109.	2.0	78
21	Molecular and cytogenetic characterization of a durum wheatâ€œ <i>Aegilops speltoides</i> chromosome translocation conferring resistance to stem rust. <i>Chromosome Research</i> , 2008, 16, 1097-1105.	1.0	77
22	<i>SnTox1</i> , a <i>Parastagonospora nodorum</i> necrotrophic effector, is a dualâ€œ function protein that facilitates infection while protecting from wheatâ€œ produced chitinases. <i>New Phytologist</i> , 2016, 211, 1052-1064.	3.5	76
23	Meiosis-Driven Genome Variation in Plants. <i>Current Genomics</i> , 2007, 8, 151-161.	0.7	75
24	Genomeâ€œ Wide Association and Prediction of Grain and Semolina Quality Traits in Durum Wheat Breeding Populations. <i>Plant Genome</i> , 2017, 10, plantgenome2017.05.0038.	1.6	75
25	Genome-wide identification of QTL conferring high-temperature adult-plant (HTAP) resistance to stripe rust (<i>Puccinia striiformis</i> f. sp. <i>tritici</i>) in wheat. <i>Molecular Breeding</i> , 2012, 29, 791-800.	1.0	73
26	Cytogenetic and molecular characterization of a durum alien disomic addition line with enhanced tolerance to <i>Fusarium</i> head blight. <i>Genome</i> , 2009, 52, 467-483.	0.9	66
27	Identification of novel tan spot resistance QTLs using an SSR-based linkage map of tetraploid wheat. <i>Molecular Breeding</i> , 2010, 25, 327-338.	1.0	66
28	Two putatively homoeologous wheat genes mediate recognition of <i>SnTox3</i> to confer effectorâ€œ triggered susceptibility to <i>Stagonospora nodorum</i>. <i>Plant Journal</i> , 2011, 65, 27-38.	2.8	65
29	Identification and molecular mapping of two QTLs with major effects for resistance to <i>Fusarium</i> head blight in wheat. <i>Theoretical and Applied Genetics</i> , 2011, 123, 1107-1119.	1.8	65
30	Analysis of agronomic and domestication traits in a durumâ€œâ€œ Cultivated emmer wheat population using a high-density single nucleotide polymorphism-based linkage map. <i>Theoretical and Applied Genetics</i> , 2014, 127, 2333-2348.	1.8	64
31	Review of doubled haploid production in durum and common wheat through wheatâ€œâ€œ maize hybridization. <i>Plant Breeding</i> , 2014, 133, 313-320.	1.0	63
32	Evaluation and Characterization of Seedling Resistances to Stem Rust Ug99 Races in Wheatâ€œ Alien Species Derivatives. <i>Crop Science</i> , 2009, 49, 2167-2175.	0.8	62
33	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.	1.8	59
34	Molecular mapping of QTL for <i>Fusarium</i> head blight resistance introgressed into durum wheat. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1939-1951.	1.8	57
35	Identification and molecular mapping of quantitative trait loci for <i>Fusarium</i> head blight resistance in emmer and durum wheat using a single nucleotide polymorphism-based linkage map. <i>Molecular Breeding</i> , 2014, 34, 1677-1687.	1.0	55
36	Evaluation of Genetic Diversity and Host Resistance to Stem Rust in USDA NSGC Durum Wheat Accessions. <i>Plant Genome</i> , 2017, 10, plantgenome2016.07.0071.	1.6	55

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37	A wheat cysteine-rich receptor-like kinase confers broad-spectrum resistance against <i>Septoria tritici</i> blotch. <i>Nature Communications</i> , 2021, 12, 433.	5.8	55
38	Meta-QTL analysis of tan spot resistance in wheat. <i>Theoretical and Applied Genetics</i> , 2020, 133, 2363-2375.	1.8	54
39	Haploidy in Cultivated Wheats: Induction and Utility in Basic and Applied Research. <i>Crop Science</i> , 2009, 49, 737-755.	0.8	53
40	The Wheat <i>Snn7</i> Gene Confers Susceptibility on Recognition of the <i>Parastagonospora nodorum</i> Necrotrophic Effector SnTox7. <i>Plant Genome</i> , 2015, 8, eplantgenome2015.02.0007.	1.6	52
41	New Insights into the Roles of Host Gene-Necrotrophic Effector Interactions in Governing Susceptibility of Durum Wheat to Tan Spot and <i>Septoria nodorum</i> Blotch. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 4139-4150.	0.8	50
42	Genetic relationships between race-nonspecific and race-specific interactions in the wheat- <i>Pyrenophora tritici-repentis</i> pathosystem. <i>Theoretical and Applied Genetics</i> , 2016, 129, 897-908.	1.8	49
43	New QTL alleles for quality-related traits in spring wheat revealed by RIL population derived from supernumerary-Non-supernumerary spikelet genotypes. <i>Theoretical and Applied Genetics</i> , 2015, 128, 893-912.	1.8	47
44	The Global Durum Wheat Panel (GDP): An International Platform to Identify and Exchange Beneficial Alleles. <i>Frontiers in Plant Science</i> , 2020, 11, 569905.	1.7	44
45	Tan spot susceptibility governed by the <i>Tsn1</i> locus and race-nonspecific resistance quantitative trait loci in a population derived from the wheat lines Salamouni and Katepwa. <i>Molecular Breeding</i> , 2012, 30, 1669-1678.	1.0	42
46	Chromosomal Locations of Genes for Stem Rust Resistance in Monogenic Lines Derived from Tetraploid Wheat Accession ST464. <i>Crop Science</i> , 2007, 47, 1441-1450.	0.8	40
47	Genetic Mapping Analysis of Bread-Making Quality Traits in Spring Wheat. <i>Crop Science</i> , 2012, 52, 2182-2197.	0.8	40
48	Discovery of a Novel Stem Rust Resistance Allele in Durum Wheat that Exhibits Differential Reactions to Ug99 Isolates. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 3481-3490.	0.8	40
49	Molecular and comparative mapping of genes governing spike compactness from wild emmer wheat. <i>Molecular Genetics and Genomics</i> , 2014, 289, 641-651.	1.0	38
50	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.	1.8	37
51	Evaluation and characterization of high-molecular weight 1D glutenin subunits from <i>Aegilops tauschii</i> in synthetic hexaploid wheats. <i>Journal of Cereal Science</i> , 2010, 52, 333-336.	1.8	37
52	Molecular Cytogenetic Characterization and Stem Rust Resistance of Five Wheat- <i>Thinopyrum ponticum</i> Partial Amphiploids. <i>Journal of Genetics and Genomics</i> , 2014, 41, 591-599.	1.7	37
53	Pivoting from <i>Arabidopsis</i> to wheat to understand how agricultural plants integrate responses to biotic stress. <i>Journal of Experimental Botany</i> , 2015, 66, 513-531.	2.4	35
54	Physical mapping resources for large plant genomes: radiation hybrids for wheat D-genome progenitor <i>Aegilops tauschii</i> . <i>BMC Genomics</i> , 2012, 13, 597.	1.2	33

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55	Identification and mapping of Sr46 from <i>Aegilops tauschii</i> accession Clae 25 conferring resistance to race TTKSK (Ug99) of wheat stem rust pathogen. <i>Theoretical and Applied Genetics</i> , 2015, 128, 431-443.	1.8	33
56	Mapping and characterization of two stem rust resistance genes derived from cultivated emmer wheat accession PI 193883. <i>Theoretical and Applied Genetics</i> , 2019, 132, 3177-3189.	1.8	33
57	A protein kinase—major sperm protein gene hijacked by a necrotrophic fungal pathogen triggers disease susceptibility in wheat. <i>Plant Journal</i> , 2021, 106, 720-732.	2.8	31
58	A Genome-Wide Association Study of Highly Heritable Agronomic Traits in Durum Wheat. <i>Frontiers in Plant Science</i> , 2019, 10, 919.	1.7	30
59	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.	1.8	28
60	Genetic analysis of threshability and other spike traits in the evolution of cultivated emmer to fully domesticated durum wheat. <i>Molecular Genetics and Genomics</i> , 2019, 294, 757-771.	1.0	28
61	The <i>Parastagonospora nodorum</i> necrotrophic effector SnTox5 targets the wheat gene <i>Snn5</i> and facilitates entry into the leaf mesophyll. <i>New Phytologist</i> , 2022, 233, 409-426.	3.5	28
62	Meiotic Homoeologous Recombination-Based Alien Gene Introgression in the Genomics Era of Wheat. <i>Crop Science</i> , 2017, 57, 1189-1198.	0.8	27
63	Characterizing the <i>Pyrenophora teres</i> f. <i>maculata</i> —Barley Interaction Using Pathogen Genetics. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 2615-2626.	0.8	26
64	Identification of a major dominant gene for race-nonspecific tan spot resistance in wild emmer wheat. <i>Theoretical and Applied Genetics</i> , 2020, 133, 829-841.	1.8	26
65	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.	1.0	25
66	Characterization of HMW Glutenin Subunits in <i>Thinopyrum intermedium</i> , <i>Th. bessarabicum</i> , <i>Lophopyrum elongatum</i> , <i>Aegilops markgrafii</i> , and Their Addition Lines in Wheat. <i>Crop Science</i> , 2011, 51, 667-677.	0.8	24
67	Delimitation of wheat ph1b deletion and development of ph1b-specific DNA markers. <i>Theoretical and Applied Genetics</i> , 2019, 132, 195-204.	1.8	24
68	Evaluation of Seedling Resistance to Tan Spot and <i>Stagonospora nodorum</i> Blotch in Tetraploid Wheat. <i>Crop Science</i> , 2008, 48, 1107-1116.	0.8	22
69	A triple threat: the <i>Parastagonospora nodorum</i> SnTox267 effector exploits three distinct host genetic factors to cause disease in wheat. <i>New Phytologist</i> , 2022, 233, 427-442.	3.5	22
70	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.	1.8	21
71	Physical localization and genetic mapping of the fertility restoration gene <i>Rfo</i> in canola (<i>Brassica napus</i> L.). <i>Genome</i> , 2009, 52, 401-407.	0.9	20
72	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.	1.7	20

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73	Identification, mapping, and marker development of stem rust resistance genes in durum wheat <i>Lebsock</i> [™] . <i>Molecular Breeding</i> , 2018, 38, 1.	1.0	19
74	Epigenetic regulation of gene expression improves Fusarium head blight resistance in durum wheat. <i>Scientific Reports</i> , 2020, 10, 17610.	1.6	18
75	Attempted Compensation for Linkage Drag Affecting Agronomic Characteristics of Durum Wheat 1AS/1DL Translocation Lines. <i>Crop Science</i> , 2013, 53, 422-429.	0.8	17
76	Molecular and Cytogenetic Characterization of Six Wheat-Aegilops <i>markgrafii</i> Disomic Addition Lines and Their Resistance to Rusts and Powdery Mildew. <i>Frontiers in Plant Science</i> , 2018, 9, 1616.	1.7	17
77	Resistance to Race TTKSK of <i>Puccinia graminis</i> f. sp. <i>tritici</i> in Emmer Wheat. <i>Crop Science</i> , 2012, 52, 2234-2242.	0.8	16
78	A New Map Location of Gene <i>Stb3</i> for Resistance to Septoria Tritici Blotch in Wheat. <i>Crop Science</i> , 2015, 55, 35-43.	0.8	15
79	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.	2.8	15
80	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.	0.8	14
81	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.	0.8	14
82	Wheat "Aegilops Introgressions. , 2015, , 221-243.		14
83	Chromosome Engineering Techniques for Targeted Introgression of Rust Resistance from Wild Wheat Relatives. <i>Methods in Molecular Biology</i> , 2017, 1659, 163-172.	0.4	14
84	Genome-wide association mapping of tan spot resistance in a worldwide collection of durum wheat. <i>Theoretical and Applied Genetics</i> , 2020, 133, 2227-2237.	1.8	14
85	High molecular weight glutenin gene diversity in <i>Aegilops tauschii</i> demonstrates unique origin of superior wheat quality. <i>Communications Biology</i> , 2021, 4, 1242.	2.0	14
86	Characterization of <i>Thinopyrum</i> Species for Wheat Stem Rust Resistance and Ploidy Level. <i>Crop Science</i> , 2014, 54, 2663-2672.	0.8	12
87	Variation in Chromosome Constitution of the Xiaoyan Series Partial Amphiploids and Its Relationship to Stripe Rust and Stem Rust Resistance. <i>Journal of Genetics and Genomics</i> , 2015, 42, 657-660.	1.7	12
88	<i>Pyrenophora tritici-repentis</i> Race 4 Isolates Cause Disease on Tetraploid Wheat. <i>Phytopathology</i> , 2020, 110, 1781-1790.	1.1	12
89	Development and characterization of wheat "sea wheatgrass (<i>Thinopyrum junceiforme</i>) amphiploids for biotic stress resistance and abiotic stress tolerance. <i>Theoretical and Applied Genetics</i> , 2019, 132, 163-175.	1.8	11
90	Comparative analysis of genetic background in eight near-isogenic wheat lines with different H genes conferring resistance to Hessian fly. <i>Genome</i> , 2011, 54, 81-89.	0.9	10

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91	Physical mapping of DNA markers linked to stem rust resistance gene Sr47 in durum wheat. <i>Theoretical and Applied Genetics</i> , 2017, 130, 1135-1154.	1.8	10
92	Genetic analysis and molecular mapping of crown rust resistance in common wheat. <i>Theoretical and Applied Genetics</i> , 2014, 127, 609-619.	1.8	9
93	QTL mapping of resistance to tan spot induced by race 2 of <i>Pyrenophora tritici-repentis</i> in tetraploid wheat. <i>Theoretical and Applied Genetics</i> , 2020, 133, 433-442.	1.8	9
94	Chromosome Painting by GISH and Multicolor FISH. <i>Methods in Molecular Biology</i> , 2016, 1429, 7-21.	0.4	8
95	Cloning and characterization of the homoeologous genes for the Rec8-like meiotic cohesin in polyploid wheat. <i>BMC Plant Biology</i> , 2018, 18, 224.	1.6	8
96	Characterization of synthetic wheat line Largo for resistance to stem rust. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	7
97	Novel stripe rust all-stage resistance loci identified in a worldwide collection of durum wheat using genome-wide association mapping. <i>Plant Genome</i> , 2021, 14, e20136.	1.6	7
98	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.	1.8	6
99	Evaluation and Haplotype Analysis of Elite Synthetic Hexaploid Wheat Lines for Resistance to Hessian Fly. <i>Crop Science</i> , 2012, 52, 752-763.	0.8	5
100	Interactions of Genotype and Glutenin Subunit Composition on Breadmaking Quality of Durum 1AS-1AL-1DL Translocation Lines. <i>Cereal Chemistry</i> , 2014, 91, 211-217.	1.1	5
101	Development of a diagnostic co-dominant marker for stem rust resistance gene Sr47 introgressed from <i>Aegilops speltoides</i> into durum wheat. <i>Theoretical and Applied Genetics</i> , 2015, 128, 2367-2374.	1.8	5
102	Genetic Mapping of Major Effect Seed Dormancy Quantitative Trait Loci on Chromosome 2B using Recombinant Substitution Lines in Tetraploid Wheat. <i>Crop Science</i> , 2016, 56, 59-72.	0.8	5
103	Elgin™ Spring Wheat: A Newly Adapted Cultivar to the North-Central Plains of the United States with High Agronomic and Quality Performance. <i>Journal of Plant Registrations</i> , 2016, 10, 130-134.	0.4	4
104	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.	1.8	4
105	Unique fertility restoration suppressor genes for male-sterile CMS ANN2 and CMS ANN3 cytoplasm in sunflower (<i>Helianthus annuus</i> L.). <i>Molecular Breeding</i> , 2019, 39, 1.	1.0	3
106	Marker-assisted characterization of durum wheat Langdon Golden Ball disomic substitution lines. <i>Theoretical and Applied Genetics</i> , 2010, 120, 1575-1585.	1.8	2
107	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.	1.8	2