

Bernd Friebe

List of Publications by Year in descending order

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85
papers

4,775
citations

76326

40
h-index

98798

67
g-index

88
all docs

88
docs citations

88
times ranked

2790
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic characterization and curation of diploid A-genome wheat species. <i>Plant Physiology</i> , 2022, 188, 2101-2114.	4.8	13
2	Origin and genetic analysis of stem rust resistance in wheat line Tr129. <i>Scientific Reports</i> , 2022, 12, 4585.	3.3	0
3	The <i>Aegilops ventricosa</i> 2NvS segment in bread wheat: cytology, genomics and breeding. <i>Theoretical and Applied Genetics</i> , 2021, 134, 529-542.	3.6	48
4	Development of Novel Wheat <i>Aegilops longissima</i> 3S ¹ Translocations Conferring Powdery Mildew Resistance and Specific Molecular Markers for Chromosome 3S ¹ . <i>Plant Disease</i> , 2021, 105, 2938-2945.	1.4	3
5	Molecular cytogenetic characterization and fusarium head blight resistance of five wheat- <i>Thinopyrum intermedium</i> partial amphiploids. <i>Molecular Cytogenetics</i> , 2021, 14, 15.	0.9	3
6	Development of DNA Markers From Physically Mapped Loci in <i>Aegilops comosa</i> and <i>Aegilops umbellulata</i> Using Single-Gene FISH and Chromosome Sequences. <i>Frontiers in Plant Science</i> , 2021, 12, 689031.	3.6	21
7	Deciphering the Mechanism of Glyphosate Resistance in <i>Amaranthus palmeri</i> by Cytogenomics. <i>Cytogenetic and Genome Research</i> , 2021, 161, 578-584.	1.1	7
8	Physical Mapping of Pm57, a Powdery Mildew Resistance Gene Derived from <i>Aegilops searsii</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 322.	4.1	13
9	Homoeologous Recombination: A Novel and Efficient System for Broadening the Genetic Variability in Wheat. <i>Agronomy</i> , 2020, 10, 1059.	3.0	10
10	Development and Molecular Cytogenetic Characterization of Cold-Hardy Perennial Wheatgrass Adapted to Northeastern China. <i>Frontiers in Plant Science</i> , 2020, 11, 582.	3.6	4
11	Genome-wide impacts of alien chromatin introgression on wheat gene transcriptions. <i>Scientific Reports</i> , 2020, 10, 4801.	3.3	13
12	A spontaneous wheat- <i>Aegilops longissima</i> translocation carrying Pm66 confers resistance to powdery mildew. <i>Theoretical and Applied Genetics</i> , 2020, 133, 1149-1159.	3.6	56
13	In-silico detection of aneuploidy and chromosomal deletions in wheat using genotyping-by-sequencing. <i>Plant Methods</i> , 2020, 16, 45.	4.3	2
14	Production of a complete set of wheat-barley group-7 chromosome recombinants with increased grain β -glucan content. <i>Theoretical and Applied Genetics</i> , 2019, 132, 3129-3141.	3.6	18
15	Physical Mapping of Stem Rust Resistance Gene Sr52 from <i>Dasypyrum villosum</i> Based on ph1b-Induced Homoeologous Recombination. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4887.	4.1	15
16	Introgression of a Novel Ug99-Effective Stem Rust Resistance Gene into Wheat and Development of <i>Dasypyrum villosum</i> Chromosome-Specific Markers via Genotyping-by-Sequencing (GBS). <i>Plant Disease</i> , 2019, 103, 1068-1074.	1.4	7
17	Chromosome Rearrangements Caused by Double Monosomy in Wheat-Barley Group-7 Substitution Lines. <i>Cytogenetic and Genome Research</i> , 2018, 154, 45-55.	1.1	6
18	Gene Duplication and Aneuploidy Trigger Rapid Evolution of Herbicide Resistance in Common Waterhemp. <i>Plant Physiology</i> , 2018, 176, 1932-1938.	4.8	21

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19	Extrachromosomal circular DNA-based amplification and transmission of herbicide resistance in crop weed <i>Amaranthus palmeri</i> . Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3332-3337.	7.1	159
20	Single molecule mtDNA fiber FISH for analyzing numtogenesis. Analytical Biochemistry, 2018, 552, 45-49.	2.4	10
21	Development of a complete set of wheat-barley group-7 Robertsonian translocation chromosomes conferring an increased content of β -glucan. Theoretical and Applied Genetics, 2018, 131, 377-388.	3.6	19
22	Molecular and Cytogenetic Characterization of Six Wheat-Aegilops markgrafii Disomic Addition Lines and Their Resistance to Rusts and Powdery Mildew. Frontiers in Plant Science, 2018, 9, 1616.	3.6	17
23	The <i>Agropyron cristatum</i> karyotype, chromosome structure and cross-genome homoeology as revealed by fluorescence in situ hybridization with tandem repeats and wheat single-gene probes. Theoretical and Applied Genetics, 2018, 131, 2213-2227.	3.6	64
24	Homoeologous recombination-based transfer and molecular cytogenetic mapping of powdery mildew-resistant gene Pm57 from <i>Aegilops searsii</i> into wheat. Theoretical and Applied Genetics, 2017, 130, 841-848.	3.6	65
25	Homoeologous recombination in the presence of Ph1 gene in wheat. Chromosoma, 2017, 126, 531-540.	2.2	46
26	Homoeologous recombination-based transfer and molecular cytogenetic mapping of a wheat streak mosaic virus and Triticum mosaic virus resistance gene Wsm3 from <i>Thinopyrum intermedium</i> to wheat. Theoretical and Applied Genetics, 2017, 130, 549-556.	3.6	33
27	Physical Mapping of Amplified Copies of the 5-Enolpyruvylshikimate-3-Phosphate Synthase Gene in Glyphosate-Resistant <i>Amaranthus tuberculatus</i> . Plant Physiology, 2017, 173, 1226-1234.	4.8	54
28	Chromosome Engineering Techniques for Targeted Introgression of Rust Resistance from Wild Wheat Relatives. Methods in Molecular Biology, 2017, 1659, 163-172.	0.9	14
29	Major structural genomic alterations can be associated with hybrid speciation in <i>Aegilops markgrafii</i> (Triticeae). Plant Journal, 2017, 92, 317-330.	5.7	71
30	A whole-genome, radiation hybrid mapping resource of hexaploid wheat. Plant Journal, 2016, 86, 195-207.	5.7	23
31	A set of <i>Triticum aestivum</i> - <i>Aegilops speltoides</i> Robertsonian translocation lines. Theoretical and Applied Genetics, 2016, 129, 2359-2368.	3.6	18
32	A new 2DS-2RL Robertsonian translocation transfers stem rust resistance gene Sr59 into wheat. Theoretical and Applied Genetics, 2016, 129, 1383-1392.	3.6	89
33	Molecular Cytogenetic Mapping of Satellite DNA Sequences in <i>Aegilops geniculata</i> and Wheat. Cytogenetic and Genome Research, 2016, 148, 314-321.	1.1	7
34	Exploring the tertiary gene pool of bread wheat: sequence assembly and analysis of chromosome 5M of <i>Aegilops geniculata</i> . Plant Journal, 2015, 84, 733-746.	5.7	48
35	Wheat-Aegilops Introgressions. , 2015, , 221-243.		14
36	Chromosome engineering, mapping, and transferring of resistance to <i>Fusarium head blight</i> disease from <i>Elymus tsukushiensis</i> into wheat. Theoretical and Applied Genetics, 2015, 128, 1019-1027.	3.6	79

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37	Resistance to the Ug99 Race Group of <i>Puccinia graminis</i> f. sp. <i>tritici</i> in Wheat—Intra/intergeneric Hybrid Derivatives. <i>Plant Disease</i> , 2015, 99, 1317-1325.	1.4	10
38	Structure and Stability of Telocentric Chromosomes in Wheat. <i>PLoS ONE</i> , 2015, 10, e0137747.	2.5	16
39	Tandem Amplification of a Chromosomal Segment Harboring 5-Enolpyruvylshikimate-3-Phosphate Synthase Locus Confers Glyphosate Resistance in <i>Kochia scoparia</i> . <i>Plant Physiology</i> , 2014, 166, 1200-1207.	4.8	103
40	Production of Autopolyploid Lowland Switchgrass Lines Through In Vitro Chromosome Doubling. <i>Bioenergy Research</i> , 2014, 7, 232-242.	3.9	20
41	Physical localization of rRNA genes by fluorescence in situ hybridization (FISH) and analysis of spacer length variants of 45S rRNA (slvs) genes in some species of genus <i>Sesbania</i> . <i>Plant Systematics and Evolution</i> , 2014, 300, 1793-1802.	0.9	1
42	Development of a wheat single gene FISH map for analyzing homoeologous relationship and chromosomal rearrangements within the Triticeae. <i>Theoretical and Applied Genetics</i> , 2014, 127, 715-730.	3.6	98
43	SNP Discovery for mapping alien introgressions in wheat. <i>BMC Genomics</i> , 2014, 15, 273.	2.8	82
44	Development and characterization of a compensating wheat-Thinopyrum intermedium Robertsonian translocation with Sr44 resistance to stem rust (Ug99). <i>Theoretical and Applied Genetics</i> , 2013, 126, 1167-1177.	3.6	54
45	Single-copy gene fluorescence in situ hybridization and genome analysis: Acc-2 loci mark evolutionary chromosomal rearrangements in wheat. <i>Chromosoma</i> , 2012, 121, 597-611.	2.2	104
46	Registration of a Hard Red Winter Wheat Genetic Stock Homozygous for ph1b for Facilitating Alien Introgression for Crop Improvement. <i>Journal of Plant Registrations</i> , 2012, 6, 121-123.	0.5	5
47	Development of a set of compensating <i>Triticum aestivum</i> — <i>Dasypyrum villosum</i> Robertsonian translocation lines. <i>Genome</i> , 2011, 54, 836-844.	2.0	50
48	Complex Ploidy Level Variation in Guayule Breeding Programs. <i>Crop Science</i> , 2011, 51, 210-216.	1.8	12
49	Discovery and molecular mapping of a new gene conferring resistance to stem rust, Sr53, derived from <i>Aegilops geniculata</i> and characterization of spontaneous translocation stocks with reduced alien chromatin. <i>Chromosome Research</i> , 2011, 19, 669-682.	2.2	111
50	Development and characterization of wheat-Ae. <i>searsii</i> Robertsonian translocations and a recombinant chromosome conferring resistance to stem rust. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1537-1545.	3.6	77
51	A novel Robertsonian translocation event leads to transfer of a stem rust resistance gene (Sr52) effective against race Ug99 from <i>Dasypyrum villosum</i> into bread wheat. <i>Theoretical and Applied Genetics</i> , 2011, 123, 159-167.	3.6	114
52	The compact Brachypodium genome conserves centromeric regions of a common ancestor with wheat and rice. <i>Functional and Integrative Genomics</i> , 2010, 10, 477-492.	3.5	22
53	Genome relationships in the genus <i>Dasypyrum</i> : evidence from molecular phylogenetic analysis and in situ hybridization. <i>Plant Systematics and Evolution</i> , 2010, 288, 149-156.	0.9	17
54	Development and characterization of two new <i>Triticum aestivum</i> — <i>Dasypyrum villosum</i> Robertsonian translocation lines T1DŠ1V#3L and T1DLÁ1V#3S and their effect on grain quality. <i>Euphytica</i> , 2010, 175, 343-350.	1.2	26

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55	Genome Size Variation in Switchgrass (<i>Panicum virgatum</i>): Flow Cytometry and Cytology Reveal Rampant Aneuploidy. <i>Plant Genome</i> , 2010, 3, .	2.8	77
56	A Molecular-Cytogenetic Method for Locating Genes to Pericentromeric Regions Facilitates a Genomewide Comparison of Synteny Between the Centromeric Regions of Wheat and Rice. <i>Genetics</i> , 2009, 183, 1235-1247.	2.9	14
57	FISH on Plant Chromosomes. , 2009, , 365-394.		17
58	Cytogenetic Analysis of Wheat and Rye Genomes. , 2009, , 121-135.		6
59	Molecular cytogenetic characterization of alien introgressions with gene <i>Fhb3</i> for resistance to Fusarium head blight disease of wheat. <i>Theoretical and Applied Genetics</i> , 2008, 117, 1155-1166.	3.6	132
60	The Origin of a "Zebra" Chromosome in Wheat Suggests Nonhomologous Recombination as a Novel Mechanism for New Chromosome Evolution and Step Changes in Chromosome Number. <i>Genetics</i> , 2008, 179, 1169-1177.	2.9	27
61	Cytogenetics in the age of molecular genetics. <i>Australian Journal of Agricultural Research</i> , 2007, 58, 498.	1.5	24
62	Homoeologous recombination, chromosome engineering and crop improvement. <i>Chromosome Research</i> , 2007, 15, 3-19.	2.2	278
63	Wheat Genetics Resource Center: The First 25 Years. <i>Advances in Agronomy</i> , 2006, 89, 73-136.	5.2	56
64	Characterization and Physical Mapping of Ribosomal RNA Gene Families in <i>Plantago</i> . <i>Annals of Botany</i> , 2006, 97, 541-548.	2.9	19
65	Gene evolution at the ends of wheat chromosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4162-4167.	7.1	67
66	Development and characterization of wheat- <i>Leymus racemosus</i> translocation lines with resistance to Fusarium Head Blight. <i>Theoretical and Applied Genetics</i> , 2005, 111, 941-948.	3.6	69
67	Origin, structure, and behavior of a highly rearranged deletion chromosome 1BS-4 in wheat. <i>Genome</i> , 2005, 48, 591-597.	2.0	3
68	Sequence composition, organization, and evolution of the core Triticeae genome. <i>Plant Journal</i> , 2004, 40, 500-511.	5.7	204
69	BAC-FISH in wheat identifies chromosome landmarks consisting of different types of transposable elements. <i>Chromosoma</i> , 2004, 112, 288-299.	2.2	126
70	Simultaneous painting of three genomes in hexaploid wheat by BAC-FISH. <i>Genome</i> , 2004, 47, 979-987.	2.0	79
71	Characterization of a knock-out mutation at the <i>Gc2</i> locus in wheat. <i>Chromosoma</i> , 2003, 111, 509-517.	2.2	44
72	Molecular characterization of a set of wheat deletion stocks for use in chromosome bin mapping of ESTs. <i>Functional and Integrative Genomics</i> , 2003, 3, 39-55.	3.5	138

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73	Origin of an apparent B chromosome by mutation, chromosome fragmentation and specific DNA sequence amplification. <i>Chromosoma</i> , 2002, 111, 332-340.	2.2	95
74	The centromere structure in Robertsonian wheat-rye translocation chromosomes indicates that centric breakage-fusion can occur at different positions within the primary constriction. <i>Chromosoma</i> , 2001, 110, 335-344.	2.2	112
75	Chromosome healing by addition of telomeric repeats in wheat occurs during the first mitotic divisions of the sporophyte and is a gradual process. <i>Chromosome Research</i> , 2001, 9, 137-146.	2.2	40
76	Meiotic metaphase I pairing behavior of a 5BL recombinant isochromosome in wheat. <i>Chromosome Research</i> , 2000, 8, 671-676.	2.2	2
77	Plant cytogenetics at the dawn of the 21st century. <i>Current Opinion in Plant Biology</i> , 1998, 1, 109-115.	7.1	69
78	Gametocidal Genes Induce Chromosome Breakage in the Interphase Prior to the First Mitotic Cell Division of the Male Gametophyte in Wheat. <i>Genetics</i> , 1998, 149, 1115-1124.	2.9	62
79	Genome differentiation in <i>Aegilops</i> . 1. Distribution of highly repetitive DNA sequences on chromosomes of diploid species. <i>Genome</i> , 1996, 39, 293-306.	2.0	176
80	Genome differentiation in <i>Aegilops</i> . 2. Physical mapping of 5S and 18S-26S ribosomal RNA gene families in diploid species. <i>Genome</i> , 1996, 39, 1150-1158.	2.0	142
81	Molecular cytogenetic analysis of <i>Agropyron</i> chromatin specifying resistance to barley yellow dwarf virus in wheat. <i>Genome</i> , 1996, 39, 336-347.	2.0	75
82	Transfer of Amigo wheat powdery mildew resistance gene Pm17 from T1AL-1RS to the T1BL-1RS wheat-rye translocated chromosome. <i>Heredity</i> , 1995, 74, 497-501.	2.6	15
83	Standard karyotype of <i>Triticum longissimum</i> and its cytogenetic relationship with <i>T. aestivum</i> . <i>Genome</i> , 1993, 36, 731-742.	2.0	94
84	Recent advances in alien gene transfer in wheat. <i>Euphytica</i> , 1993, 73, 199-212.	1.2	431
85	Comparison of C-banding patterns and in situ hybridization sites using highly repetitive and total genomic rye DNA probes of 'Imperial' rye chromosomes added to 'Chinese Spring' wheat.. <i>Japanese Journal of Genetics</i> , 1992, 67, 71-83.	1.0	69