Brande B H Wulff

List of Publications by Year
in descending order

74 papers	12,665 citations	76326 40 h-index	79698 73 g-index
94 all docs	94 docs citations	94 times ranked	10464 citing authors

#	Article	IF	Citations
1	Shifting the limits in wheat research and breeding using a fully annotated reference genome. Science, 2018, 361, .	12.6	2,424
2	A chromosome-based draft sequence of the hexaploid bread wheat (<i>Triticum aestivum</i>) genome. Science, 2014, 345, 1251788.	12.6	1,479
3	Speed breeding is a powerful tool to accelerate crop research and breeding. Nature Plants, 2018, 4, 23-29.	9.3	770
4	The transcriptional landscape of polyploid wheat. Science, 2018, 361, .	12.6	768
5	Ancient hybridizations among the ancestral genomes of bread wheat. Science, 2014, 345, 1250092.	12.6	629
6	Breeding crops to feed 10 billion. Nature Biotechnology, 2019, 37, 744-754.	17.5	577
7	Novel Disease Resistance Specificities Result from Sequence Exchange between Tandemly Repeated Genes at the Cf-4/9 Locus of Tomato. Cell, 1997, 91, 821-832.	28.9	562
8	Rapid cloning of disease-resistance genes in plants using mutagenesis and sequence capture. Nature Biotechnology, 2016, 34, 652-655.	17.5	383
9	Compromised stability of DNA methylation and transposon immobilization in mosaic <i>Arabidopsis</i> epigenomes. Genes and Development, 2009, 23, 939-950.	5.9	380
10	Genomic innovation for crop improvement. Nature, 2017, 543, 346-354.	27.8	301
11	Strategies for transferring resistance into wheat: from wide crosses to GM cassettes. Frontiers in Plant Science, 2014, 5, 692.	3.6	297
12	Speed breeding in growth chambers and glasshouses for crop breeding and model plant research. Nature Protocols, 2018, 13, 2944-2963.	12.0	286
13	Resistance gene cloning from a wild crop relative by sequence capture and association genetics. Nature Biotechnology, 2019, 37, 139-143.	17.5	280
14	Rapid gene isolation in barley and wheat by mutant chromosome sequencing. Genome Biology, 2016, 17, 221.	8.8	265
15	Standards for plant synthetic biology: a common syntax for exchange of <scp>DNA</scp> parts. New Phytologist, 2015, 208, 13-19.	7.3	263
16	BED-domain-containing immune receptors confer diverse resistance spectra to yellow rust. Nature Plants, 2018, 4, 662-668.	9.3	194
17	An Improved Consensus Linkage Map of Barley Based on Flow-Sorted Chromosomes and Single Nucleotide Polymorphism Markers. Plant Genome, 2011, 4, 238-249.	2.8	150
18	The NLR-Annotator Tool Enables Annotation of the Intracellular Immune Receptor Repertoire. Plant Physiology, 2020, 183, 468-482.	4.8	147

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19	Chromosome-scale genome assembly provides insights into rye biology, evolution and agronomic potential. Nature Genetics, 2021, 53, 564-573.	21.4	138
20	Domain Swapping and Gene Shuffling Identify Sequences Required for Induction of an Avr-Dependent Hypersensitive Response by the Tomato Cf-4 and Cf-9 Proteins. Plant Cell, 2001, 13, 255-272.	6.6	116
21	Structureâ€"Function Analysis of Cf-9, a Receptor-Like Protein with Extracytoplasmic Leucine-Rich Repeatswâƒž. Plant Cell, 2005, 17, 1000-1015.	6.6	112
22	Potential for re-emergence of wheat stem rust in the United Kingdom. Communications Biology, 2018, 1, 13.	4.4	107
23	NLR-parser: rapid annotation of plant NLR complements. Bioinformatics, 2015, 31, 1665-1667.	4.1	103
24	Population genomic analysis of Aegilops tauschii identifies targets for bread wheat improvement. Nature Biotechnology, 2022, 40, 422-431.	17.5	102
25	Combining Traditional Mutagenesis with New High-Throughput Sequencing and Genome Editing to Reveal Hidden Variation in Polyploid Wheat. Annual Review of Genetics, 2017, 51, 435-454.	7.6	100
26	A five-transgene cassette confers broad-spectrum resistance to a fungal rust pathogen in wheat. Nature Biotechnology, 2021, 39, 561-566.	17.5	94
27	A pigeonpea gene confers resistance to Asian soybean rust in soybean. Nature Biotechnology, 2016, 34, 661-665.	17.5	87
28	Improving immunity in crops: new tactics in an old game. Current Opinion in Plant Biology, 2011, 14, 468-476.	7.1	82
29	A roadmap for gene functional characterisation in crops with large genomes: Lessons from polyploid wheat. ELife, 2020, 9, .	6.0	78
30	A highly differentiated region of wheat chromosome 7AL encodes a <i>Pm1a</i> immune receptor that recognizes its corresponding <i>AvrPm1a</i> effector from <i>Blumeria graminis</i>. New Phytologist, 2021, 229, 2812-2826.	7.3	72
31	Creation and judicious application of a wheat resistance gene atlas. Molecular Plant, 2021, 14, 1053-1070.	8.3	66
32	A complex resistance locus in Solanum americanum recognizes a conserved Phytophthora effector. Nature Plants, 2021, 7, 198-208.	9.3	62
33	Harnessing Wheat Fhb1 for Fusarium Resistance. Trends in Plant Science, 2020, 25, 1-3.	8.8	56
34	Chromosome-scale comparative sequence analysis unravels molecular mechanisms of genome dynamics between two wheat cultivars. Genome Biology, 2018, 19, 104.	8.8	54
35	Homologues of the Cf-9 Disease Resistance Gene (Hcr9s) Are Present at Multiple Loci on the Short Arm of Tomato Chromosome 1. Molecular Plant-Microbe Interactions, 1999, 12, 93-102.	2.6	53
36	The Coiled-Coil NLR <i>Rph1</i>, Confers Leaf Rust Resistance in Barley Cultivar Sudan. Plant Physiology, 2019, 179, 1362-1372.	4.8	53

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37	Stem rust resistance in wheat is suppressed by a subunit of the mediator complex. Nature Communications, 2020, 11, 1123.	12.8	52
38	Subtelomeric assembly of a multi-gene pathway for antimicrobial defense compounds in cereals. Nature Communications, 2021, 12, 2563.	12.8	51
39	Recognitional Specificity and Evolution in the Tomatoâ€“<i>Cladosporium fulvum</i> Pathosystem. Molecular Plant-Microbe Interactions, 2009, 22, 1191-1202.	2.6	48
40	Aegilops sharonensis genome-assisted identification of stem rust resistance gene Sr62. Nature Communications, 2022, 13, 1607.	12.8	48
41	The Major Specificity-Determining Amino Acids of the Tomato Cf-9 Disease Resistance Protein Are at Hypervariable Solvent-Exposed Positions in the Central Leucine-Rich Repeats. Molecular Plant-Microbe Interactions, 2009, 22, 1203-1213.	2.6	46
42	Genome sequences of three <i>Aegilops</i> species of the section Sitopsis reveal phylogenetic relationships and provide resources for wheat improvement. Plant Journal, 2022, 110, 179-192.	5.7	46
43	Discovery and characterization of two new stem rust resistance genes in Aegilops sharonensis. Theoretical and Applied Genetics, 2017, 130, 1207-1222.	3.6	45
44	Wheatâ€”the cereal abandoned by GM. Science, 2018, 361, 451-452.	12.6	42
45	A recombined Sr26 and Sr61 disease resistance gene stack in wheat encodes unrelated NLR genes. Nature Communications, 2021, 12, 3378.	12.8	39
46	Gene shuffling-generated and natural variants of the tomato resistance gene Cf-9 exhibit different auto-necrosis-inducing activities in Nicotiana species. Plant Journal, 2004, 40, 942-956.	5.7	38
47	Rapid migration in gel filtration of the Cf-4 and Cf-9 resistance proteins is an intrinsic property of Cf proteins and not because of their association with high-molecular-weight proteins. Plant Journal, 2003, 35, 305-315.	5.7	33
48	Genetic Variation at the Tomato Cf-4/Cf-9 Locus Induced by EMS Mutagenesis and Intralocus Recombination. Genetics, 2004, 167, 459-470.	2.9	32
49	The barley immune receptor Mla recognizes multiple pathogens and contributes to host range dynamics. Nature Communications, 2021, 12, 6915.	12.8	29
50	Chloroplast phylogeny of <i>Triticum/Aegilops</i> species is not incongruent with an ancient homoploid hybrid origin of the ancestor of the bread wheat Dâ€genome. New Phytologist, 2015, 208, 9-10.	7.3	28
51	Identification of specificityâ€defining amino acids of the wheat immune receptor Pm2 and powdery mildew effector AvrPm2. Plant Journal, 2021, 106, 993-1007.	5.7	25
52	MutRenSeq: A Method for Rapid Cloning of Plant Disease Resistance Genes. Methods in Molecular Biology, 2017, 1659, 215-229.	0.9	22
53	Isolation of Wheat Genomic DNA for Gene Mapping and Cloning. Methods in Molecular Biology, 2017, 1659, 207-213.	0.9	21
54	A catalogue of resistance gene homologs and a chromosomeâ€scale reference sequence support resistance gene mapping in winter wheat. Plant Biotechnology Journal, 2022, 20, 1730-1742.	8.3	21

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55	Discovery of Resistance Genes in Rye by Targeted Long-Read Sequencing and Association Genetics. Cells, 2022, 11, 1273.	4.1	15
56	Rapid Gene Isolation Using MutChromSeq. Methods in Molecular Biology, 2017, 1659, 231-243.	0.9	14
57	LYS3 encodes a prolamin-box-binding transcription factor that controls embryo growth in barley and wheat. Journal of Cereal Science, 2020, 93, 102965.	3.7	14
58	The wheat <i>Sr22</i>, <i>Sr33</i>, <i>Sr35</i> and <i>Sr45</i> genes confer resistance against stem rust in barley. Plant Biotechnology Journal, 2021, 19, 273-284.	8.3	14
59	The long road to engineering durable disease resistance in wheat. Current Opinion in Biotechnology, 2022, 73, 270-275.	6.6	14
60	High molecular weight glutenin gene diversity in Aegilops tauschii demonstrates unique origin of superior wheat quality. Communications Biology, 2021, 4, 1242.	4.4	14
61	Mutagenesis ofÂPuccinia graminisÂf. sp.Âtritici and Selection of Gain-of-Virulence Mutants. Frontiers in Plant Science, 2020, 11, 570180.	3.6	13
62	Discovery and characterisation of a new leaf rust resistance gene introgressed in wheat from wild wheat Aegilops peregrina. Scientific Reports, 2020, 10, 7573.	3.3	13
63	Generation of Loss-of-Function Mutants for Wheat Rust Disease Resistance Gene Cloning. Methods in Molecular Biology, 2017, 1659, 199-205.	0.9	12
64	Characterisation and Analysis of the Aegilops sharonensis Transcriptome, a Wild Relative of Wheat in the Sitopsis Section. PLoS ONE, 2013, 8, e72782.	2.5	11
65	Genome-wide identification of the NLR gene family in Haynaldia villosa by SMRT-RenSeq. BMC Genomics, 2022, 23, 118.	2.8	11
66	Fine mapping of Aegilops peregrina co-segregating leaf and stripe rust resistance genes to distal-most end of 5DS. Theoretical and Applied Genetics, 2019, 132, 1473-1485.	3.6	8
67	Breeding a fungal gene into wheat. Science, 2020, 368, 822-823.	12.6	8
68	Rapid Gene Cloning in Wheat. , 2019, , 65-95.		6
69	Extensive Genetic Variation at the Sr22 Wheat Stem Rust Resistance Gene Locus in the Grasses Revealed Through Evolutionary Genomics and Functional Analyses. Molecular Plant-Microbe Interactions, 2020, 33, 1286-1298.	2.6	6
70	A modified sequence capture approach allowing standard and methylation analyses of the same enriched genomic DNA sample. BMC Genomics, 2018, 19, 250.	2.8	5
71	Lr21 diversity unveils footprints of wheat evolution and its new role in broadâ€spectrum leaf rust resistance. Plant, Cell and Environment, 2021, 44, 3445-3458.	5.7	4
72	Diversifying the menu for crop powdery mildew resistance. Cell, 2022, 185, 761-763.	28.9	3

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73	Domain Swapping and Gene Shuffling Identify Sequences Required for Induction of an Avr-Dependent Hypersensitive Response by the Tomato Cf-4 and Cf-9 Proteins. Plant Cell, 2001, 13, 255.	6.6	2
74	An Allele of Arabidopsis COI1 with Hypo- and Hypermorphic Phenotypes in Plant Growth, Defence and Fertility. PLoS ONE, 2013, 8, e55115.	2.5	1