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List of Publications by Year in descending order

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82 papers 10,496 citations

39 h-index 78 g-index

84 all docs 84 docs citations

84 times ranked 7545 citing authors

#	Article	IF	CITATIONS
1	Early allopolyploid evolution in the post-Neolithic <i>Brassica napus</i> oilseed genome. Science, 2014, 345, 950-953.	12.6	2,089
2	The genome of the mesopolyploid crop species Brassica rapa. Nature Genetics, 2011, 43, 1035-1039.	21.4	1,893
3	The Brassica oleracea genome reveals the asymmetrical evolution of polyploid genomes. Nature Communications, 2014, 5, 3930.	12.8	918
4	Segmental Structure of the <i>Brassica napus</i> Genome Based on Comparative Analysis With <i>Arabidopsis thaliana</i> Genetics, 2005, 171, 765-781.	2.9	516
5	Transcriptome and methylome profiling reveals relics of genome dominance in the mesopolyploid Brassica oleracea. Genome Biology, 2014, 15, R77.	9.6	456
6	The pangenome of an agronomically important crop plant Brassica oleracea. Nature Communications, 2016, 7, 13390.	12.8	375
7	The emerging biofuel crop Camelina sativa retains a highly undifferentiated hexaploid genome structure. Nature Communications, 2014, 5, 3706.	12.8	295
8	Molecular characterization of Brassica napus NAC domain transcriptional activators induced in response to biotic and abiotic stress. Plant Molecular Biology, 2003, 53, 383-397.	3.9	271
9	Homoeologous exchange is a major cause of gene presence/absence variation in the amphidiploid <i>Brassica napus</i> . Plant Biotechnology Journal, 2018, 16, 1265-1274.	8.3	217
10	A high-density SNP genotyping array for Brassica napus and its ancestral diploid species based on optimised selection of single-locus markers in the allotetraploid genome. Theoretical and Applied Genetics, 2016, 129, 1887-1899.	3.6	205
11	Genome-Wide Delineation of Natural Variation for Pod Shatter Resistance in Brassica napus. PLoS ONE, 2014, 9, e101673.	2.5	182
12	PCP-A1, a Defensin-like Brassica Pollen Coat Protein That Binds the S Locus Glycoprotein, Is the Product of Gametophytic Gene Expression. Plant Cell, 1998, 10, 1333-1347.	6.6	166
13	Polyploid Evolution of the Brassicaceae during the Cenozoic Era Â. Plant Cell, 2014, 26, 2777-2791.	6.6	165
14	Comparison of a <i>Brassica oleracea</i> Genetic Map With the Genome of <i>Arabidopsis thaliana</i> Genetics, 2003, 164, 359-372.	2.9	139
15	Detection and Effects of a Homeologous Reciprocal Transposition in <i>Brassica napus</i> . Genetics, 2003, 165, 1569-1577.	2.9	131
16	The compact genome of the plant pathogen Plasmodiophora brassicae is adapted to intracellular interactions with host Brassica spp. BMC Genomics, 2016, 17, 272.	2.8	107
17	Connecting genome structural variation with complex traits in crop plants. Theoretical and Applied Genetics, 2019, 132, 733-750.	3.6	97
18	Extensive homoeologous genome exchanges in allopolyploid crops revealed by <scp>mRNA</scp> seqâ€based visualization. Plant Biotechnology Journal, 2017, 15, 594-604.	8.3	96

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19	A high-contiguity Brassica nigra genome localizes active centromeres and defines the ancestral Brassica genome. Nature Plants, 2020, 6, 929-941.	9.3	94
20	Mapping of homoeologous chromosome exchanges influencing quantitative trait variation in <i>Brassica napus</i> . Plant Biotechnology Journal, 2017, 15, 1478-1489.	8.3	93
21	A user guide to the Brassica 60K Illumina Infiniumâ,,¢ SNP genotyping array. Theoretical and Applied Genetics, 2017, 130, 621-633.	3.6	90
22	Monolignol biosynthesis is associated with resistance to <i>Sclerotinia sclerotiorum</i> in <i>Camelina sativa</i> Molecular Plant Pathology, 2012, 13, 887-899.	4.2	81
23	Complexities of Chromosome Landing in a Highly Duplicated Genome: Toward Map-Based Cloning of a Gene Controlling Blackleg Resistance in Brassica napus. Genetics, 2005, 171, 1977-1988.	2.9	80
24	An auxin-responsive SCARECROW-like transcriptional activator interacts with histone deacetylase. Plant Molecular Biology, 2004, 55, 417-431.	3.9	78
25	Agronomic and Seed Quality Traits Dissected by Genome-Wide Association Mapping in Brassica napus. Frontiers in Plant Science, 2016, 7, 386.	3.6	78
26	Microsatellite markers used for genome-wide association mapping of partial resistance to Sclerotinia sclerotiorum in a world collection of Brassica napus. Molecular Breeding, 2016, 36, 72.	2.1	64
27	The developmental transcriptome atlas of the biofuel crop <i>Camelina sativa</i> . Plant Journal, 2016, 88, 879-894.	5.7	60
28	Construction of Brassica A and C genome-based ordered pan-transcriptomes for use in rapeseed genomic research. Data in Brief, 2015, 4, 357-362.	1.0	58
29	Forward and reverse genetics of rapid-cycling Brassica oleracea. Theoretical and Applied Genetics, 2009, 118, 953-961.	3.6	57
30	Association mapping of seed quality traits in Brassica napus L. using GWAS and candidate QTL approaches. Molecular Breeding, 2015, 35, 1.	2.1	51
31	The <i>Brassica napus</i> wallâ€associated kinaseâ€like (WAKL) gene <i>Rlm9</i> provides raceâ€specific blackleg resistance. Plant Journal, 2020, 104, 892-900.	5.7	51
32	Molecular cytogenetic identification of B genome chromosomes linked to blackleg disease resistance in Brassica napusÂ×ÂB.Âcarinata interspecific hybrids. Theoretical and Applied Genetics, 2014, 127, 1305-1318.	3.6	49
33	Analysis of B-Genome Chromosome Introgression in Interspecific Hybrids of <i>Brassica napus</i> × <i>B. carinata</i> . Genetics, 2011, 187, 659-673.	2.9	48
34	Exploiting the wild crucifer Thlaspi arvense to identify conserved and novel genes expressed during a plant's response to cold stress. Plant Molecular Biology, 2006, 63, 171-184.	3.9	47
35	Centromere Locations in <i>Brassica</i> A and C Genomes Revealed Through Half-Tetrad Analysis. Genetics, 2016, 202, 513-523.	2.9	47
36	Mapping the Brassica Genome. Outlook on Agriculture, 1993, 22, 85-92.	3.4	45

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37	Brassica napus possesses an expanded set of polygalacturonase inhibitor protein genes that are differentially regulated in response to Sclerotinia sclerotiorum infection, wounding and defense hormone treatment. Planta, 2008, 228, 241-253.	3.2	45
38	Longâ€read sequencing reveals widespread intragenic structural variants in a recent allopolyploid crop plant. Plant Biotechnology Journal, 2021, 19, 240-250.	8.3	45
39	Towards unambiguous transcript mapping in the allotetraploid Brassica napusThis article is one of a selection of papers from the conference "Exploiting Genome-wide Association in Oilseed Brassicas: a model for genetic improvement of major OECD crops for sustainable farmingâ€. Genome, 2010, 53, 929-938.	2.0	44
40	The <i>Arabidopsis tt19â€4</i> mutant differentially accumulates proanthocyanidin and anthocyanin through a 3′ amino acid substitution in glutathione <i>S</i> â€transferase. Plant, Cell and Environment, 2011, 34, 374-388.	5.7	43
41	Core and Differentially Abundant Bacterial Taxa in the Rhizosphere of Field Grown Brassica napus Genotypes: Implications for Canola Breeding. Frontiers in Microbiology, 2019, 10, 3007.	3.5	39
42	Single-nucleotide polymorphism identification and genotyping in Camelina sativa. Molecular Breeding, 2015, 35, 35.	2.1	36
43	Re-exploration of U's Triangle Brassica Species Based on Chloroplast Genomes and 45S nrDNA Sequences. Scientific Reports, 2018, 8, 7353.	3.3	36
44	Maximizing the Efficacy of SAGE Analysis Identifies Novel Transcripts in Arabidopsis. Plant Physiology, 2004, 136, 3223-3233.	4.8	35
45	Species- and genome-wide dissection of the shoot ionome in Brassica napus and its relationship to seedling development. Frontiers in Plant Science, 2014, 5, 485.	3.6	35
46	A major quantitative trait locus on chromosome A9, <i>BnaPh1</i> , controls homoeologous recombination in <i>Brassica napus</i> . New Phytologist, 2021, 229, 3281-3293.	7.3	35
47	WheatCRISPR: a web-based guide RNA design tool for CRISPR/Cas9-mediated genome editing in wheat. BMC Plant Biology, 2019, 19, 474.	3.6	34
48	Crop Lodging Prediction From UAV-Acquired Images of Wheat and Canola Using a DCNN Augmented With Handcrafted Texture Features. , 2019, , .		34
49	Detecting de Novo Homoeologous Recombination Events in Cultivated Brassica napus Using a Genome-Wide SNP Array. G3: Genes, Genomes, Genetics, 2018, 8, 2673-2683.	1.8	33
50	Assessing Diversity in the <i>Camelina </i> Genus Provides Insights into the Genome Structure of <i>Camelina sativa </i> Genes, Genomes, Genetics, 2020, 10, 1297-1308.	1.8	33
51	Co-linearity and divergence of the A subgenome of Brassica juncea compared with other Brassica species carrying different A subgenomes. BMC Genomics, 2016, 17, 18.	2.8	32
52	Clubroot resistance gene Rcr6 in Brassica nigra resides in a genomic region homologous to chromosome A08 in B. rapa. BMC Plant Biology, 2019, 19, 224.	3.6	32
53	Genome structural evolution in Brassica crops. Nature Plants, 2021, 7, 757-765.	9.3	31
54	A novel protein from Brassica napus has a putative KID domain and responds to low temperature. Plant Journal, 2003, 33, 1073-1086.	5.7	30

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55	Genetic Diversity and Population Structure in a World Collection of <i>Brassica napus</i> Accessions with Emphasis on South Korea, Japan, and Pakistan. Crop Science, 2013, 53, 1537-1545.	1.8	30
56	High-density single nucleotide polymorphism (SNP) array mapping in Brassica oleracea: identification of QTL associated with carotenoid variation in broccoli florets. Theoretical and Applied Genetics, 2014, 127, 2051-2064.	3.6	30
57	Arabidopsis cpSRP54 regulates carotenoid accumulation in Arabidopsis and Brassica napus. Journal of Experimental Botany, 2012, 63, 5189-5202.	4.8	28
58	Latent Space Phenotyping: Automatic Image-Based Phenotyping for Treatment Studies. Plant Phenomics, 2020, 2020, 5801869.	5.9	26
59	A new dominant Arabidopsis transparent testa mutant, sk21-D, and modulation of seed flavonoid biosynthesis by KAN4. Plant Biotechnology Journal, 2010, 8, 979-993.	8.3	22
60	Hairy Canola (Brasssica napus) re-visited: Down-regulating TTG1 in an AtGL3-enhanced hairy leaf background improves growth, leaf trichome coverage, and metabolite gene expression diversity. BMC Plant Biology, 2016, 16, 12.	3.6	18
61	Classification of Crop Lodging with Gray Level Co-occurrence Matrix. , 2018, , .		17
62	Korean Brassica oleracea germplasm offers a novel source of qualitative resistance to blackleg disease. European Journal of Plant Pathology, 2017, 149, 611-623.	1.7	16
63	UAV-Based Hyperspectral Imaging Technique to Estimate Canola <i>(Brassica napus L.)</i> Seedpods Maturity. Canadian Journal of Remote Sensing, 2021, 47, 33-47.	2.4	15
64	Deep neural networks for genomic prediction do not estimate marker effects. Plant Genome, 2021, 14, e20147.	2.8	15
65	Comparative genome organization reveals a single copy of CBF in the freezing tolerant crucifer Thlaspi arvense. Plant Molecular Biology, 2007, 65, 693-705.	3.9	13
66	Narrow genetic base shapes population structure and linkage disequilibrium in an industrial oilseed crop, Brassica carinata A. Braun. Scientific Reports, 2020, 10, 12629.	3.3	13
67	Midâ€infrared spectroscopy is a fast screening method for selecting Arabidopsis genotypes with altered leaf cuticular wax. Plant, Cell and Environment, 2020, 43, 662-674.	5.7	12
68	Revised Selection Criteria for Candidate Restriction Enzymes in Genome Walking. PLoS ONE, 2012, 7, e35117.	2.5	12
69	Multi-trait and multi-environment QTL analysis reveals the impact of seed colour on seed composition traits in Brassica napus. Molecular Breeding, 2016, 36, 1.	2.1	11
70	Phenotyping Flowering in Canola (Brassica napus L.) and Estimating Seed Yield Using an Unmanned Aerial Vehicle-Based Imagery. Frontiers in Plant Science, 2021, 12, 686332.	3.6	11
71	Visualization Tools for Genomic Conservation. Methods in Molecular Biology, 2022, 2443, 285-308.	0.9	9
72	L-system models for image-based phenomics: case studies of maize and canola. In Silico Plants, 2022, 4, .	1.9	9

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73	Comparison of Five Major Trichome Regulatory Genes in Brassica villosa with Orthologues within the Brassicaceae. PLoS ONE, 2014, 9, e95877.	2.5	8
74	Genes associated with chloroplasts and hormone-signaling, and transcription factors other than CBFs are associated with differential survival after low temperature treatments of Camelina sativa biotypes. PLoS ONE, 2019, 14, e0217692.	2.5	8
75	Gene expression profiling reveals transcription factor networks and subgenome bias during Brassica napus seed development. Plant Journal, 2021, 109, 477.	5.7	8
76	Quantitative and structural analyses of T-DNA tandem repeats in transgenic Arabidopsis SK mutant lines. Plant Cell, Tissue and Organ Culture, 2015, 123, 183-192.	2.3	7
77	Analysis of Genotyping-by-Sequencing (GBS) Data. Methods in Molecular Biology, 2016, 1374, 269-284.	0.9	6
78	Field cress genome mapping: Integrating linkage and comparative maps with cytogenetic analysis for rDNA carrying chromosomes. Scientific Reports, 2019, 9, 17028.	3.3	5
79	Exploiting High-Throughput Indoor Phenotyping to Characterize the Founders of a Structured B. napus Breeding Population. Frontiers in Plant Science, 2021, 12, 780250.	3.6	3
80	Characterization of B-Genome Specific High Copy hAT MITE Families in Brassica nigra Genome. Frontiers in Plant Science, 2020, 11, 1104.	3.6	1
81	saskPrimer & amp; \pm x2014; An automated pipeline for design of intron-spanning PCR primers in non-model organisms. , 2011, , .		0
82	Characterization and Mapping of retr04, retr05 and retr06 Broad-Spectrum Resistances to Turnip Mosaic Virus in Brassica juncea, and the Development of Robust Methods for Utilizing Recalcitrant Genotyping Data. Frontiers in Plant Science, 2021, 12, 787354.	3.6	0