

Philipp E. Bayer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86
papers

5,290
citations

28
h-index

72
g-index

103
ext. papers

8,333
ext. citations

7.8
avg, IF

5.51
L-index

#	Paper	IF	Citations
86	Haplotype mapping uncovers unexplored variation in wild and domesticated soybean at the major protein locus cqProt-003.. <i>Theoretical and Applied Genetics</i> , 2022 , 135, 1443	6	1
85	Genome Analysis of the Broad Host Range Necrotroph Highlights Genes Associated With Virulence.. <i>Frontiers in Plant Science</i> , 2022 , 13, 811152	6.2	
84	Expanding Gene-Editing Potential in Crop Improvement with Pangenomes.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
83	Brassica napus genes Rlm4 and Rlm7, conferring resistance to <i>Leptosphaeria maculans</i> , are alleles of the Rlm9 wall-associated kinase-like resistance locus.. <i>Plant Biotechnology Journal</i> , 2022 ,	11.6	2
82	Machine learning models outperform deep learning models, provide interpretation and facilitate feature selection for soybean trait prediction.. <i>BMC Plant Biology</i> , 2022 , 22, 180	5.3	0
81	Mining of Cloned Disease Resistance Gene Homologs (CDRHs) in Brassica Species and <i>Arabidopsis thaliana</i> . <i>Biology</i> , 2022 , 11, 821	4.9	0
80	Producing High-Quality Single Nucleotide Polymorphism Data for Genome-Wide Association Studies. <i>Methods in Molecular Biology</i> , 2022 , 153-159	1.4	1
79	An SGSGeneloss-Based Method for Constructing a Gene Presence/Absence Table Using Mosdepth. <i>Methods in Molecular Biology</i> , 2022 , 73-80	1.4	0
78	Searching for Homologous Genes Using Daisychain. <i>Methods in Molecular Biology</i> , 2022 , 95-101	1.4	
77	Maize Yield Prediction at an Early Developmental Stage Using Multispectral Images and Genotype Data for Preliminary Hybrid Selection. <i>Remote Sensing</i> , 2021 , 13, 3976	5	8
76	High-Throughput Genotyping Technologies in Plant Taxonomy. <i>Methods in Molecular Biology</i> , 2021 , 2222, 149-166	1.4	0
75	Candidate Rlm6 resistance genes against <i>Leptosphaeria. maculans</i> identified through a genome-wide association study in <i>Brassica juncea</i> (L.) Czern. <i>Theoretical and Applied Genetics</i> , 2021 , 134, 2035-2050	6	4
74	Sequencing the USDA core soybean collection reveals gene loss during domestication and breeding. <i>Plant Genome</i> , 2021 , e20109	4.4	11
73	Genotype-Environment mismatch of kelp forests under climate change. <i>Molecular Ecology</i> , 2021 , 30, 3730-3746	5.7	7
72	Resources for image-based high-throughput phenotyping in crops and data sharing challenges. <i>Plant Physiology</i> , 2021 , 187, 699-715	6.6	3
71	The pangenome of banana highlights differences between genera and genomes. <i>Plant Genome</i> , 2021 , e20100	4.4	10
70	The application of pangenomics and machine learning in genomic selection in plants. <i>Plant Genome</i> , 2021 , 14, e20112	4.4	4

69	Machine learning in agriculture: from silos to marketplaces. <i>Plant Biotechnology Journal</i> , 2021 , 19, 648-650.	11.6	8
68	Assembly of the non-heading pak choi genome and comparison with the genomes of heading Chinese cabbage and the oilseed yellow sarson. <i>Plant Biotechnology Journal</i> , 2021 , 19, 966-976	11.6	9
67	Genetic variation among 481 diverse soybean accessions, inferred from genomic re-sequencing. <i>Scientific Data</i> , 2021 , 8, 50	8.2	13
66	Current status of structural variation studies in plants. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2153-2163	11.6	7
65	Amborella gene presence/absence variation is associated with abiotic stress responses that may contribute to environmental adaptation. <i>New Phytologist</i> , 2021 ,	9.8	3
64	QTL Genetic Mapping Study for Traits Affecting Meal Quality in Winter Oilseed Rape (L.). <i>Genes</i> , 2021 , 12,	4.2	4
63	Modelling of gene loss propensity in the pangenomes of three Brassica species suggests different mechanisms between polyploids and diploids. <i>Plant Biotechnology Journal</i> , 2021 , 19, 2488-2500	11.6	7
62	Fast-forward breeding for a food-secure world. <i>Trends in Genetics</i> , 2021 , 37, 1124-1136	8.5	15
61	Marine heatwaves have minimal influence on the quality of adult Sydney rock oyster flesh. <i>Science of the Total Environment</i> , 2021 , 795, 148846	10.2	1
60	Pangenomics in crop improvement-from coding structural variations to finding regulatory variants with pangenome graphs.. <i>Plant Genome</i> , 2021 , e20177	4.4	2
59	Daisychain: Search and Interactive Visualisation of Homologs in Genome Assemblies. <i>Agronomy</i> , 2021 , 11, 2587	3.6	
58	Trait associations in the pangenome of pigeon pea (<i>Cajanus cajan</i>). <i>Plant Biotechnology Journal</i> , 2020 , 18, 1946-1954	11.6	36
57	Climate change and the need for agricultural adaptation. <i>Current Opinion in Plant Biology</i> , 2020 , 56, 197-202	9.2	64
56	Plant pangenomics: approaches, applications and advancements. <i>Current Opinion in Plant Biology</i> , 2020 , 54, 18-25	9.9	41
55	Genome-Wide Identification and Evolution of Receptor-Like Kinases (RLKs) and Receptor like Proteins (RLPs) in. <i>Biology</i> , 2020 , 10,	4.9	9
54	Method for Genome-Wide Association Study: A Soybean Example. <i>Methods in Molecular Biology</i> , 2020 , 2107, 147-158	1.4	0
53	Characterization of disease resistance genes in the Brassica napus pangenome reveals significant structural variation. <i>Plant Biotechnology Journal</i> , 2020 , 18, 969-982	11.6	41
52	Pangenomics Comes of Age: From Bacteria to Plant and Animal Applications. <i>Trends in Genetics</i> , 2020 , 36, 132-145	8.5	57

51	Induced Methylation in Plants as a Crop Improvement Tool: Progress and Perspectives. <i>Agronomy</i> , 2020 , 10, 1484	3.6	11
50	Plant pan-genomes are the new reference. <i>Nature Plants</i> , 2020 , 6, 914-920	11.5	129
49	Frontiers in Dissecting and Managing Diseases: From Reference-Based RGA Candidate Identification to Building Pan-RGAomes. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
48	Genome-wide identification and comparative analysis of resistance genes in Brassica juncea. <i>Molecular Breeding</i> , 2020 , 40, 1	3.4	10
47	Resistance Gene Analogs in the Brassicaceae: Identification, Characterization, Distribution, and Evolution. <i>Plant Physiology</i> , 2020 , 184, 909-922	6.6	15
46	Effect of Leptosphaeria maculans Infection on Promoter DNA Methylation of Defence Genes in Brassica napus. <i>Agronomy</i> , 2020 , 10, 1072	3.6	4
45	Legume Pangenome Construction Using an Iterative Mapping and Assembly Approach. <i>Methods in Molecular Biology</i> , 2020 , 2107, 35-47	1.4	3
44	A reference genome for pea provides insight into legume genome evolution. <i>Nature Genetics</i> , 2019 , 51, 1411-1422	36.3	157
43	Genetic Diversity Linked to Haplotype Variation in the World Core Collection of for Boron Toxicity Tolerance Provides Valuable Markers for Pasture Breeding. <i>Frontiers in Plant Science</i> , 2019 , 10, 1043	6.2	1
42	Construction and comparison of three reference-quality genome assemblies for soybean. <i>Plant Journal</i> , 2019 , 100, 1066-1082	6.9	32
41	Variation in abundance of predicted resistance genes in the Brassica oleracea pangenome. <i>Plant Biotechnology Journal</i> , 2019 , 17, 789-800	11.6	60
40	CropSNPdb: a database of SNP array data for Brassica crops and hexaploid bread wheat. <i>Plant Journal</i> , 2019 , 98, 142-152	6.9	16
39	High intraspecific diversity of Restorer-of-fertility-like genes in barley. <i>Plant Journal</i> , 2019 , 97, 281-295	6.9	17
38	Establishing a distributed national research infrastructure providing bioinformatics support to life science researchers in Australia. <i>Briefings in Bioinformatics</i> , 2019 , 20, 384-389	13.4	8
37	Adapting legume crops to climate change using genomic approaches. <i>Plant, Cell and Environment</i> , 2019 , 42, 6-19	8.4	43
36	INDEL variation in the regulatory region of the major flowering time gene LanFTc1 is associated with vernalization response and flowering time in narrow-leaved lupin (Lupinus angustifolius L.). <i>Plant, Cell and Environment</i> , 2019 , 42, 174-187	8.4	35
35	Genome-wide identification and comparative analysis of NBS-LRR resistance genes in Brassica napus. <i>Crop and Pasture Science</i> , 2018 , 69, 72	2.2	37
34	Genomic comparison of two independent seagrass lineages reveals habitat-driven convergent evolution. <i>Journal of Experimental Botany</i> , 2018 , 69, 3689-3702	7	9

33	Exploring the genetic and adaptive diversity of a pan-Mediterranean crop wild relative: narrow-leaved lupin. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 887-901	6	34
32	The transcriptional landscape of polyploid wheat. <i>Science</i> , 2018 , 361,	33.3	368
31	Shifting the limits in wheat research and breeding using a fully annotated reference genome. <i>Science</i> , 2018 , 361,	33.3	1296
30	Homoeologous exchange is a major cause of gene presence/absence variation in the amphidiploid <i>Brassica napus</i> . <i>Plant Biotechnology Journal</i> , 2018 , 16, 1265-1274	11.6	130
29	Bias in resistance gene prediction due to repeat masking. <i>Nature Plants</i> , 2018 , 4, 762-765	11.5	30
28	The western Mediterranean region provided the founder population of domesticated narrow-leaved lupin. <i>Theoretical and Applied Genetics</i> , 2018 , 131, 2543-2554	6	20
27	Large-Scale Structural Variation Detection in Subterranean Clover Subtypes Using Optical Mapping. <i>Frontiers in Plant Science</i> , 2018 , 9, 971	6.2	6
26	The pangenome of hexaploid bread wheat. <i>Plant Journal</i> , 2017 , 90, 1007-1013	6.9	206
25	An advanced reference genome of <i>Trifolium subterraneum</i> L. reveals genes related to agronomic performance. <i>Plant Biotechnology Journal</i> , 2017 , 15, 1034-1046	11.6	17
24	Improvements in Genomic Technologies: Application to Crop Genomics. <i>Trends in Biotechnology</i> , 2017 , 35, 547-558	15.1	50
23	Assembly and comparison of two closely related <i>Brassica napus</i> genomes. <i>Plant Biotechnology Journal</i> , 2017 , 15, 1602-1610	11.6	103
22	runBNG: a software package for BioNano genomic analysis on the command line. <i>Bioinformatics</i> , 2017 , 33, 3107-3109	7.2	7
21	BioNanoAnalyst: a visualisation tool to assess genome assembly quality using BioNano data. <i>BMC Bioinformatics</i> , 2017 , 18, 323	3.6	6
20	A comprehensive draft genome sequence for lupin (<i>Lupinus angustifolius</i>), an emerging health food: insights into plant-microbe interactions and legume evolution. <i>Plant Biotechnology Journal</i> , 2017 , 15, 318-330	11.6	123
19	Climate Clever Clovers: New Paradigm to Reduce the Environmental Footprint of Ruminants by Breeding Low Methanogenic Forages Utilizing Haplotype Variation. <i>Frontiers in Plant Science</i> , 2017 , 8, 1463	6.2	7
18	The Genome of a Southern Hemisphere Seagrass Species (<i>Zostera muelleri</i>). <i>Plant Physiology</i> , 2016 , 172, 272-83	6.6	41
17	The pangenome of an agronomically important crop plant <i>Brassica oleracea</i> . <i>Nature Communications</i> , 2016 , 7, 13390	17.4	240
16	An efficient approach to BAC based assembly of complex genomes. <i>Plant Methods</i> , 2016 , 12, 2	5.8	10

15	Centromere Locations in Brassica A and C Genomes Revealed Through Half-Tetrad Analysis. <i>Genetics</i> , 2016 , 202, 513-23	4	23
14	Genome-Wide Association Study of Genetic Control of Seed Fatty Acid Biosynthesis in. <i>Frontiers in Plant Science</i> , 2016 , 7, 2062	6.2	38
13	Skim-Based Genotyping by Sequencing Using a Double Haploid Population to Call SNPs, Infer Gene Conversions, and Improve Genome Assemblies. <i>Methods in Molecular Biology</i> , 2016 , 1374, 285-92	1.4	1
12	Genomics of Salinity 2016 , 179-194		
11	High-resolution skim genotyping by sequencing reveals the distribution of crossovers and gene conversions in <i>Cicer arietinum</i> and <i>Brassica napus</i> . <i>Theoretical and Applied Genetics</i> , 2015 , 128, 1039-47	6	52
10	Identification and characterization of more than 4 million intervarietal SNPs across the group 7 chromosomes of bread wheat. <i>Plant Biotechnology Journal</i> , 2015 , 13, 97-104	11.6	32
9	Skim-based genotyping by sequencing. <i>Methods in Molecular Biology</i> , 2015 , 1245, 257-70	1.4	20
8	High-resolution molecular karyotyping uncovers pairing between ancestrally related Brassica chromosomes. <i>New Phytologist</i> , 2014 , 202, 964-974	9.8	25
7	Plant genetics. Early allopolyploid evolution in the post-Neolithic <i>Brassica napus</i> oilseed genome. <i>Science</i> , 2014 , 345, 950-3	33.3	1348
6	openSNP--a crowdsourced web resource for personal genomics. <i>PLoS ONE</i> , 2014 , 9, e89204	3.7	49
5	Acclimation to different depths by the marine angiosperm <i>Posidonia oceanica</i> : transcriptomic and proteomic profiles. <i>Frontiers in Plant Science</i> , 2013 , 4, 195	6.2	27
4	Genome-Wide Association Studies in Plants1-7		0
3	Genomic rearrangements have consequences for introgression breeding as revealed by genome assemblies of wild and cultivated lentil species		4
2	Wheat Panache - a pangenome graph database representing presence/absence variation across 16 bread wheat genomes		1
1	<i>Brassica napus</i> genes Rlm4 and Rlm7, conferring resistance to <i>Leptosphaeria maculans</i> , are alleles of the Rlm9 wall-associated kinase-like resistance locus		1