Ravi Prakash Singh

List of Publications by Year
in descending order

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82	9,868	94433 37	62596 80
papers	citations	h-index	g-index

83	83	83	6890
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multiâ€trait selection of bread wheat ideotypes for adaptation to early sown condition. Crop Science, 2022, 62, 67-82.	1.8	10
2	Molecular Characterization of Genomic Regions for Adult Plant Resistance to Stem Rust in a Spring Wheat Mapping Population. Plant Disease, 2022, 106, 439-450.	1.4	1
3	Combined linkage and association mapping reveals two major QTL for stripe rust adult plant resistance in Shaanmai 155 and their haplotype variation in common wheat germplasm. Crop Journal, 2022, 10, 783-792.	5.2	5
4	Plant breeding increases spring wheat yield potential in Afghanistan. Crop Science, 2022, 62, 167-177.	1.8	3
5	Bayesian multitrait kernel methods improve multienvironment genome-based prediction. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	8
6	Genome-Wide Association Mapping Indicates Quantitative Genetic Control of Spot Blotch Resistance in Bread Wheat and the Favorable Effects of Some Spot Blotch Loci on Grain Yield. Frontiers in Plant Science, 2022, 13, 835095.	3.6	9
7	Quantitative trait loci mapping reveals the complexity of adult plant resistance to leaf rust in spring wheat â€˜Copioâ€™. Crop Science, 2022, 62, 1037-1050.	1.8	5
8	Genomic selection for spot blotch in bread wheat breeding panels, full-sibs and half-sibs and index-based selection for spot blotch, heading and plant height. Theoretical and Applied Genetics, 2022, , 1.	3.6	9
9	Achieving Genetic Gains in Practice. , 2022, , 97-123.		1
10	Cloning of the broadly effective wheat leaf rust resistance gene Lr42 transferred from Aegilops tauschii. Nature Communications, 2022, 13, .	12.8	29
11	Breeding increases grain yield, zinc, and iron, supporting enhanced wheat biofortification. Crop Science, 2022, 62, 1912-1925.	1.8	7
12	Dataset of historic and modern bread and durum wheat cultivar performance under conventional and reduced tillage with full and reduced irrigation. Data in Brief, 2022, 43, 108439.	1.0	0
13	A largeâ€scale genomic association analysis identifies the candidate causal genes conferring stripe rust resistance under multiple field environments. Plant Biotechnology Journal, 2021, 19, 177-191.	8.3	54
14	The Aegilops ventricosa 2NvS segment in bread wheat: cytology, genomics and breeding. Theoretical and Applied Genetics, 2021, 134, 529-542.	3.6	48
15	Genome-wide association analysis for arabinoxylan content in common wheat (T. Aestivum L.) flour. Journal of Cereal Science, 2021, 98, 103166.	3.7	14
16	Refined mapping of stripe rust resistance gene YrP10090 within a desirable haplotype for wheat improvement on chromosome 6A. Theoretical and Applied Genetics, 2021, 134, 2005-2021.	3.6	9
17	Elucidating the genetics of grain yield and stress-resilience in bread wheat using a large-scale genome-wide association mapping study with 55,568 lines. Scientific Reports, 2021, 11, 5254.	3.3	11
18	Target Population of Environments for Wheat Breeding in India: Definition, Prediction and Genetic Gains. Frontiers in Plant Science, 2021, 12, 638520.	3.6	26

#	Article	IF	Citations
19	Screening and Mapping for Head Blast Resistance in a Panel of CIMMYT and South Asian Bread Wheat Germplasm. Frontiers in Genetics, 2021, 12, 679162.	2.3	16
20	Harnessing translational research in wheat for climate resilience. Journal of Experimental Botany, 2021, 72, 5134-5157.	4.8	28
21	Pre-emptive Breeding Against Karnal Bunt Infection in Common Wheat: Combining Genomic and Agronomic Information to Identify Suitable Parents. Frontiers in Plant Science, 2021, 12, 675859.	3.6	4
22	Increased ranking change in wheat breeding under climate change. Nature Plants, 2021, 7, 1207-1212.	9.3	37
23	Improving Wheat Yield Prediction Using Secondary Traits and High-Density Phenotyping Under Heat-Stressed Environments. Frontiers in Plant Science, 2021, 12, 633651.	3.6	8
24	Juvenile Heat Tolerance in Wheat for Attaining Higher Grain Yield by Shifting to Early Sowing in October in South Asia. Genes, 2021, 12, 1808.	2.4	8
25	Genomic Selection for Wheat Blast in a Diversity Panel, Breeding Panel and Full-Sibs Panel. Frontiers in Plant Science, 2021, 12, 745379.	3.6	13
26	Genome-wide association mapping for wheat blast resistance in CIMMYTâ€™s international screening nurseries evaluated in Bolivia and Bangladesh. Scientific Reports, 2020, 10, 15972.	3.3	27
27	Genome-wide mapping and allelic fingerprinting provide insights into the genetics of resistance to wheat stripe rust in India, Kenya and Mexico. Scientific Reports, 2020, 10, 10908.	3.3	8
28	Aerial highâ€throughput phenotyping enables indirect selection for grain yield at the early generation, seedâ€limited stages in breeding programs. Crop Science, 2020, 60, 3096-3114.	1.8	31
29	Multiple wheat genomes reveal global variation in modern breeding. Nature, 2020, 588, 277-283.	27.8	513
30	Haplotype-Based, Genome-Wide Association Study Reveals Stable Genomic Regions for Grain Yield in CIMMYT Spring Bread Wheat. Frontiers in Genetics, 2020, 11, 589490.	2.3	29
31	Retrospective Quantitative Genetic Analysis and Genomic Prediction of Global Wheat Yields. Frontiers in Plant Science, 2020, 11, 580136.	3.6	7
32	Genomic Selection for Grain Yield in the CIMMYT Wheat Breeding Programâ€”Status and Perspectives. Frontiers in Plant Science, 2020, 11, 564183.	3.6	27
33	Regularized selection indices for breeding value prediction using hyper-spectral image data. Scientific Reports, 2020, 10, 8195.	3.3	32
34	Grain yield genetic gains and changes in physiological related traits for CIMMYTâ€™s High Rainfall Wheat Screening Nursery tested across international environments. Field Crops Research, 2020, 249, 107742.	5.1	34
35	Fifty years of semi-dwarf spring wheat breeding at CIMMYT: Grain yield progress in optimum, drought and heat stress environments. Field Crops Research, 2020, 250, 107757.	5.1	64
36	A singular value decomposition Bayesian multiple-trait and multiple-environment genomic model. Heredity, 2019, 122, 381-401.	2.6	8

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37	Identification and mapping of two adult plant leaf rust resistance genes in durum wheat. Molecular Breeding, 2019, 39, 1.	2.1	4
38	Characterization of QTLs for Seedling Resistance to Tan Spot and Septoria Nodorum Blotch in the PBW343/Kenya Nyangumi Wheat Recombinant Inbred Lines Population. International Journal of Molecular Sciences, 2019, 20, 5432.	4.1	17
39	Genetic Contribution of Synthetic Hexaploid Wheat to CIMMYTâ€™s Spring Bread Wheat Breeding Germplasm. Scientific Reports, 2019, 9, 12355.	3.3	62
40	Economic benefits of blast-resistant biofortified wheat in Bangladesh: The case of BARI Gom 33. Crop Protection, 2019, 123, 45-58.	2.1	28
41	Hyperspectral Reflectance-Derived Relationship Matrices for Genomic Prediction of Grain Yield in Wheat. G3: Genes, Genomes, Genetics, 2019, 9, 1231-1247.	1.8	96
42	New Deep Learning Genomic-Based Prediction Model for Multiple Traits with Binary, Ordinal, and Continuous Phenotypes. G3: Genes, Genomes, Genetics, 2019, 9, 1545-1556.	1.8	81
43	A Bayesian Genomic Multi-output Regressor Stacking Model for Predicting Multi-trait Multi-environment Plant Breeding Data. G3: Genes, Genomes, Genetics, 2019, 9, 3381-3393.	1.8	22
44	Improving grain yield, stress resilience and quality of bread wheat using large-scale genomics. Nature Genetics, 2019, 51, 1530-1539.	21.4	216
45	Hybrid Wheat Prediction Using Genomic, Pedigree, and Environmental Covariables Interaction Models. Plant Genome, 2019, 12, 180051.	2.8	58
46	Integrating genomic-enabled prediction and high-throughput phenotyping in breeding for climate-resilient bread wheat. Theoretical and Applied Genetics, 2019, 132, 177-194.	3.6	78
47	Genome-wide association mapping for resistance to leaf rust, stripe rust and tan spot in wheat reveals potential candidate genes. Theoretical and Applied Genetics, 2018, 131, 1405-1422.	3.6	101
48	Identification and Validation of a Common Stem Rust Resistance Locus in Two Bi-parental Populations. Frontiers in Plant Science, 2018, 9, 1788.	3.6	28
49	Resistance to Spot Blotch in Two Mapping Populations of Common Wheat Is Controlled by Multiple QTL of Minor Effects. International Journal of Molecular Sciences, 2018, 19, 4054.	4.1	40
50	Prospects and Challenges of Applied Genomic Selectionâ€”A New Paradigm in Breeding for Grain Yield in Bread Wheat. Plant Genome, 2018, 11, 180017.	2.8	65
51	Combining Highâ€Throughput Phenotyping and Genomic Information to Increase Prediction and Selection Accuracy in Wheat Breeding. Plant Genome, 2018, 11, 170043.	2.8	175
52	Identification of genomic regions for grain yield and yield stability and their epistatic interactions. Scientific Reports, 2017, 7, 41578.	3.3	127
53	Genetic Yield Gains In CIMMYT's International Elite Spring Wheat Yield Trials By Modeling The Genotype Ã— Environment Interaction. Crop Science, 2017, 57, 789-801.	1.8	89
54	Genomic and pedigree-based prediction for leaf, stem, and stripe rust resistance in wheat. Theoretical and Applied Genetics, 2017, 130, 1415-1430.	3.6	99

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55	Genomic Selection in Plant Breeding: Methods, Models, and Perspectives. Trends in Plant Science, 2017, 22, 961-975.	8.8	1,004
56	Improving global integration of crop research. Science, 2017, 357, 359-360.	12.6	34
57	Singleâ€Step Genomic and Pedigree Genotype Ã— Environment Interaction Models for Predicting Wheat Lines in International Environments. Plant Genome, 2017, 10, plantgenome2016.09.0089.	2.8	66
58	Strategies for Selecting Crosses Using Genomic Prediction in Two Wheat Breeding Programs. Plant Genome, 2017, 10, plantgenome2016.12.0128.	2.8	37
59	Strategic crossing of biomass and harvest indexâ€"source and sinkâ€"achieves genetic gains in wheat. Euphytica, 2017, 213, 1.	1.2	97
60	Comparison of Models and Wholeâ€Genome Profiling Approaches for Genomicâ€Enabled Prediction of Septoria Tritici Blotch, Stagonospora Nodorum Blotch, and Tan Spot Resistance in Wheat. Plant Genome, 2017, 10, plantgenome2016.08.0082.	2.8	48
61	Genomic Bayesian functional regression models with interactions for predicting wheat grain yield using hyper-spectral image data. Plant Methods, 2017, 13, 62.	4.3	38
62	Canopy Temperature and Vegetation Indices from High-Throughput Phenotyping Improve Accuracy of Pedigree and Genomic Selection for Grain Yield in Wheat. G3: Genes, Genomes, Genetics, 2016, 6, 2799-2808.	1.8	336
63	Application of unmanned aerial systems for high throughput phenotyping of large wheat breeding nurseries. Plant Methods, 2016, 12, 35.	4.3	200
64	Disease Impact on Wheat Yield Potential and Prospects of Genetic Control. Annual Review of Phytopathology, 2016, 54, 303-322.	7.8	322
65	Sources of the highly expressed wheat bread making (wbm) gene in CIMMYT spring wheat germplasm and its effect on processing and bread-making quality. Euphytica, 2016, 209, 689-692.	1.2	24
66	Emergence and Spread of New Races of Wheat Stem Rust Fungus: Continued Threat to Food Security and Prospects of Genetic Control. Phytopathology, 2015, 105, 872-884.	2.2	393
67	Phenotypic and Genotypic Characterization of Race TKTTF of Puccinia graminis f. sp. tritici that Caused a Wheat Stem Rust Epidemic in Southern Ethiopia in 2013â€"14. Phytopathology, 2015, 105, 917-928.	2.2	202
68	Identification and characterization of pleiotropic and co-located resistance loci to leaf rust and stripe rust in bread wheat cultivar Sujata. Theoretical and Applied Genetics, 2015, 128, 549-561.	3.6	49
69	A high density GBS map of bread wheat and its application for dissecting complex disease resistance traits. BMC Genomics, 2015, 16, 216.	2.8	188
70	Increased Prediction Accuracy in Wheat Breeding Trials Using a Marker Ã— Environment Interaction Genomic Selection Model. G3: Genes, Genomes, Genetics, 2015, 5, 569-582.	1.8	266
71	A recently evolved hexose transporter variant confers resistance to multiple pathogens in wheat. Nature Genetics, 2015, 47, 1494-1498.	21.4	575
72	Genetic loci associated with high grain zinc concentration and pleiotropic effect on kernel weight in wheat (Triticum aestivum L.). Molecular Breeding, 2014, 34, 1893-1902.	2.1	56

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73	Resistance to stem rust Ug99 in six bread wheat cultivars maps to chromosome 6DS. Theoretical and Applied Genetics, 2014, 127, 231-239.	3.6	30
74	Lr68: a new gene conferring slow rusting resistance to leaf rust in wheat. Theoretical and Applied Genetics, 2012, 124, 1475-1486.	3.6	248
75	Genetic structures of the CIMMYT international yield trial targeted to irrigated environments. Molecular Breeding, 2012, 29, 529-541.	2.1	41
76	The Emergence of Ug99 Races of the Stem Rust Fungus is a Threat to World Wheat Production. Annual Review of Phytopathology, 2011, 49, 465-481.	7.8	612
77	New slow-rusting leaf rust and stripe rust resistance genes Lr67 and Yr46 in wheat are pleiotropic or closely linked. Theoretical and Applied Genetics, 2011, 122, 239-249.	3.6	224
78	Prediction of Genetic Values of Quantitative Traits in Plant Breeding Using Pedigree and Molecular Markers. Genetics, 2010, 186, 713-724.	2.9	664
79	A Putative ABC Transporter Confers Durable Resistance to Multiple Fungal Pathogens in Wheat. Science, 2009, 323, 1360-1363.	12.6	1,140
80	Wheat genetic resources enhancement by the International Maize and Wheat Improvement Center (CIMMYT). Genetic Resources and Crop Evolution, 2008, 55, 1095-1140.	1.6	155
81	Wheat improvement in India: present status, emerging challenges and future prospects. Euphytica, 2007, 157, 431-446.	1.2	262
82	Genome-Wide Association Mapping Identifies Key Genomic Regions for Grain Zinc and Iron Biofortification in Bread Wheat. Frontiers in Plant Science, 0, 13, .	3.6	3