

Michael O Pumphrey

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

6,763
citations

61977

43
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69246

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84
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84
docs citations

84
times ranked

4880
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#	ARTICLE	IF	CITATIONS
1	Genome-wide comparative diversity uncovers multiple targets of selection for improvement in hexaploid wheat landraces and cultivars. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8057-8062.	7.1	1,065
2	Durum wheat genome highlights past domestication signatures and future improvement targets. <i>Nature Genetics</i> , 2019, 51, 885-895.	21.4	576
3	Low-altitude, high-resolution aerial imaging systems for row and field crop phenotyping: A review. <i>European Journal of Agronomy</i> , 2015, 70, 112-123.	4.1	380
4	A Genome-Wide Association Study of Resistance to Stripe Rust (<i>Puccinia striiformis</i> f. sp. Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 G3: Genes, Genomes, Genetics, 2015, 5, 449-465.	1.8	356
5	Wheat Fhb1 encodes a chimeric lectin with agglutinin domains and a pore-forming toxin-like domain conferring resistance to Fusarium head blight. <i>Nature Genetics</i> , 2016, 48, 1576-1580.	21.4	299
6	Megabase Level Sequencing Reveals Contrasted Organization and Evolution Patterns of the Wheat Gene and Transposable Element Spaces. <i>Plant Cell</i> , 2010, 22, 1686-1701.	6.6	258
7	Phenotypic and Genotypic Characterization of Race TKTF of <i>Puccinia graminis</i> f. sp. <i>tritici</i> that Caused a Wheat Stem Rust Epidemic in Southern Ethiopia in 2013-14. <i>Phytopathology</i> , 2015, 105, 917-928.	2.2	202
8	Complex microcolinearity among wheat, rice, and barley revealed by fine mapping of the genomic region harboring a major QTL for resistance to Fusarium head blight in wheat. <i>Functional and Integrative Genomics</i> , 2006, 6, 83-89.	3.5	183
9	Validating the Fhb1 QTL for Fusarium Head Blight Resistance in Near-Isogenic Wheat Lines Developed from Breeding Populations. <i>Crop Science</i> , 2007, 47, 200-206.	1.8	179
10	Genetic Architecture of Resistance to Stripe Rust in a Global Winter Wheat Germplasm Collection. G3: Genes, Genomes, Genetics, 2016, 6, 2237-2253.	1.8	154
11	Nonadditive Expression of Homoeologous Genes Is Established Upon Polyploidization in Hexaploid Wheat. <i>Genetics</i> , 2009, 181, 1147-1157.	2.9	151
12	Molecular cytogenetic characterization of alien introgressions with gene Fhb3 for resistance to Fusarium head blight disease of wheat. <i>Theoretical and Applied Genetics</i> , 2008, 117, 1155-1166.	3.6	132
13	Toward positional cloning of Fhb1, a major QTL for Fusarium head blight resistance in wheat. <i>Cereal Research Communications</i> , 2008, 36, 195-201.	1.6	118
14	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
15	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
16	Characterization of molecular diversity and genome-wide mapping of loci associated with resistance to stripe rust and stem rust in Ethiopian bread wheat accessions. <i>BMC Plant Biology</i> , 2017, 17, 134.	3.6	99
17	Association mapping of North American spring wheat breeding germplasm reveals loci conferring resistance to Ug99 and other African stem rust races. <i>BMC Plant Biology</i> , 2015, 15, 249.	3.6	98
18	The genetic architecture of genome-wide recombination rate variation in allopolyploid wheat revealed by nested association mapping. <i>Plant Journal</i> , 2018, 95, 1039-1054.	5.7	97

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19	Genome-wide association mapping reveals a rich genetic architecture of stripe rust resistance loci in emmer wheat (<i>Triticum turgidum</i> ssp. <i>dicoccum</i>). <i>Theoretical and Applied Genetics</i> , 2017, 130, 2249-2270.	3.6	80
20	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
21	Stem Rust Resistance in <i>Aegilops tauschii</i> Germplasm. <i>Crop Science</i> , 2011, 51, 2074-2078.	1.8	72
22	Genome-wide association mapping for seedling and field resistance to <i>Puccinia striiformis</i> f. sp. <i>tritici</i> in elite durum wheat. <i>Theoretical and Applied Genetics</i> , 2017, 130, 649-667.	3.6	71
23	Markers Linked to Wheat Stem Rust Resistance Gene <i>Sr11</i> Effective to <i>Puccinia graminis</i> f. sp. <i>tritici</i> Race TKTF. <i>Phytopathology</i> , 2016, 106, 1352-1358.	2.2	69
24	Loci associated with resistance to stripe rust (<i>Puccinia striiformis</i> f. sp. <i>tritici</i>) in a core collection of spring wheat (<i>Triticum aestivum</i>). <i>PLoS ONE</i> , 2017, 12, e0179087.	2.5	69
25	NIR Absorbance Characteristics of Deoxynivalenol and of Sound and <i>Fusarium</i> -Damaged Wheat Kernels. <i>Journal of Near Infrared Spectroscopy</i> , 2009, 17, 213-221.	1.5	67
26	Novel Sources of Stripe Rust Resistance Identified by Genome-Wide Association Mapping in Ethiopian Durum Wheat (<i>Triticum turgidum</i> ssp. <i>durum</i>). <i>Frontiers in Plant Science</i> , 2017, 8, 774.	3.6	66
27	A Genome-Wide Association Study of Field and Seedling Response to Individual Stem Rust Pathogen Races Reveals Combinations of Race-Specific Genes in North American Spring Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 52.	3.6	66
28	Near-Infrared Spectroscopic Method for Identification of <i>Fusarium</i> Head Blight Damage and Prediction of Deoxynivalenol in Single Wheat Kernels. <i>Cereal Chemistry</i> , 2010, 87, 511-517.	2.2	65
29	Introgression of stem rust resistance genes <i>SrTA10187</i> and <i>SrTA10171</i> from <i>Aegilops tauschii</i> to wheat. <i>Theoretical and Applied Genetics</i> , 2013, 126, 2477-2484.	3.6	65
30	Deep Learning for Predicting Complex Traits in Spring Wheat Breeding Program. <i>Frontiers in Plant Science</i> , 2020, 11, 613325.	3.6	64
31	Genetic Characterization of Stem Rust Resistance in a Global Spring Wheat Germplasm Collection. <i>Crop Science</i> , 2017, 57, 2575-2589.	1.8	63
32	Simultaneous transfer, introgression, and genomic localization of genes for resistance to stem rust race TTKSK (<i>Ug99</i>) from <i>Aegilops tauschii</i> to wheat. <i>Theoretical and Applied Genetics</i> , 2013, 126, 1179-1188.	3.6	61
33	Molecular Mapping of Stem Rust Resistance Gene <i>Sr40</i> in Wheat. <i>Crop Science</i> , 2009, 49, 1681-1686.	1.8	58
34	Development of Wheat Lines Having a Small Introgressed Segment Carrying Stem Rust Resistance Gene <i>Sr22</i> . <i>Crop Science</i> , 2010, 50, 1823-1830.	1.8	58
35	Multitrait machine and deep learning models for genomic selection using spectral information in a wheat breeding program. <i>Plant Genome</i> , 2021, 14, e20119.	2.8	56
36	Development and characterization of a compensating wheat- <i>Thinopyrum</i> intermedium Robertsonian translocation with <i>Sr44</i> resistance to stem rust (<i>Ug99</i>). <i>Theoretical and Applied Genetics</i> , 2013, 126, 1167-1177.	3.6	54

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37	Development of a SNP marker assay for the Lr67 gene of wheat using a genotyping by sequencing approach. <i>Molecular Breeding</i> , 2014, 34, 2109-2118.	2.1	52
38	Multi-Locus Mixed Model Analysis Of Stem Rust Resistance In Winter Wheat. <i>Plant Genome</i> , 2017, 10, plantgenome2017.01.0001.	2.8	52
39	Genetic Maps of Stem Rust Resistance Gene <i>Sr35</i> in Diploid and Hexaploid Wheat. <i>Crop Science</i> , 2010, 50, 2464-2474.	1.8	51
40	Genome-Wide Association Mapping of Loci for Resistance to Stripe Rust in North American Elite Spring Wheat Germplasm. <i>Phytopathology</i> , 2018, 108, 234-245.	2.2	50
41	Evaluation of the Potential for Genomic Selection to Improve Spring Wheat Resistance to Fusarium Head Blight in the Pacific Northwest. <i>Frontiers in Plant Science</i> , 2018, 9, 911.	3.6	50
42	Combining Genomic and Phenomic Information for Predicting Grain Protein Content and Grain Yield in Spring Wheat. <i>Frontiers in Plant Science</i> , 2021, 12, 613300.	3.6	50
43	A robust molecular marker for the detection of shortened introgressed segment carrying the stem rust resistance gene <i>Sr22</i> in common wheat. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1-7.	3.6	48
44	Evaluation of Near-Isogenic Lines for Three Height-Reducing Genes in Hard Red Spring Wheat. <i>Crop Science</i> , 2012, 52, 1145-1152.	1.8	48
45	Identification of promising host-induced silencing targets among genes preferentially transcribed in haustoria of <i>Puccinia</i> . <i>BMC Genomics</i> , 2015, 16, 579.	2.8	47
46	A Time for More Booms and Fewer Busts? Unraveling Cereal-Rust Interactions. <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 207-214.	2.6	46
47	Unlocking Diversity in Germplasm Collections via Genomic Selection: A Case Study Based on Quantitative Adult Plant Resistance to Stripe Rust in Spring Wheat. <i>Plant Genome</i> , 2017, 10, plantgenome2016.12.0124.	2.8	42
48	Association mapping of leaf rust resistance loci in a spring wheat core collection. <i>Theoretical and Applied Genetics</i> , 2017, 130, 345-361.	3.6	41
49	Identification and Validation of SNP Markers Linked to the Stripe Rust Resistance Gene <i>Yr5</i> in Wheat. <i>Crop Science</i> , 2016, 56, 3055-3065.	1.8	32
50	Genomic variants affecting homoeologous gene expression dosage contribute to agronomic trait variation in allopolyploid wheat. <i>Nature Communications</i> , 2022, 13, 826.	12.8	31
51	Virulence Characterization of Wheat Stripe Rust Fungus <i>Puccinia striiformis</i> f. sp. <i>tritici</i> in Ethiopia and Evaluation of Ethiopian Wheat Germplasm for Resistance to Races of the Pathogen from Ethiopia and the United States. <i>Plant Disease</i> , 2017, 101, 73-80.	1.4	29
52	Genome-wide Association Study of Agronomic Traits in a Spring-Planted North American Elite Hard Red Spring Wheat Panel. <i>Crop Science</i> , 2018, 58, 1838-1852.	1.8	29
53	Genomic Selection and Genome-Wide Association Studies for Grain Protein Content Stability in a Nested Association Mapping Population of Wheat. <i>Agronomy</i> , 2021, 11, 2528.	3.0	26
54	Impact of a Quantitative Trait Locus for Tiller Number on Plasticity of Agronomic Traits in Spring Wheat. <i>Crop Science</i> , 2016, 56, 595-602.	1.8	24

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55	Agronomic Performance of Spring Wheat as Related to Planting Date and Photoperiod Response. <i>Crop Science</i> , 2012, 52, 1633-1639.	1.8	18
56	Genome-wide associations for multiple pest resistances in a Northwestern United States elite spring wheat panel. <i>PLoS ONE</i> , 2018, 13, e0191305.	2.5	18
57	A TILLING Resource for Hard Red Winter Wheat Variety Jagger. <i>Crop Science</i> , 2019, 59, 1666-1671.	1.8	17
58	Spring Wheat Tolerance and Resistance to <i>Heterodera avenae</i> in the Pacific Northwest. <i>Plant Disease</i> , 2013, 97, 590-600.	1.4	16
59	Agronomic Impact of a Stem Solidness Gene in Near-Isogenic Lines of Wheat. <i>Crop Science</i> , 2015, 55, 514-520.	1.8	16
60	Registration of the Triticeae-CAP Spring Wheat Nested Association Mapping Population. <i>Journal of Plant Registrations</i> , 2019, 13, 294-297.	0.5	16
61	Development of a Raspberry Pi-Based Sensor System for Automated In-Field Monitoring to Support Crop Breeding Programs. <i>Inventions</i> , 2021, 6, 42.	2.5	15
62	Spectral Reflectance for Indirect Selection and Genome-Wide Association Analyses of Grain Yield and Drought Tolerance in North American Spring Wheat. <i>Crop Science</i> , 2018, 58, 2289-2301.	1.8	14
63	Investigating conditions that induce late maturity alpha-amylase (LMA) using Northwestern US spring wheat (<i>Triticum aestivum</i> L.). <i>Seed Science Research</i> , 2021, 31, 169-177.	1.7	13
64	Development of an Automated High-Throughput Phenotyping System for Wheat Evaluation in a Controlled Environment. <i>Transactions of the ASABE</i> , 2019, 62, 61-74.	1.1	12
65	<i>Fusarium</i> Head Blight Symptoms and Mycotoxin Levels in Single Kernels of Infected Wheat Spikes. <i>Cereal Chemistry</i> , 2011, 88, 291-295.	2.2	11
66	3D Robotic System Development for High-throughput Crop Phenotyping. <i>IFAC-PapersOnLine</i> , 2016, 49, 242-247.	0.9	11
67	The genetics of late maturity alpha-amylase (LMA) in North American spring wheat (<i>Triticum</i>) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	10
68	Segregation analysis indicates that Puroindoline b-2 variants 2 and 3 are allelic in <i>Triticum aestivum</i> and that a revision to Puroindoline b-2 gene symbolization is indicated. <i>Journal of Cereal Science</i> , 2013, 57, 61-66.	3.7	8
69	The Borlaug Global Rust Initiative: Reducing the Genetic Vulnerability of Wheat to Rust. , 2014, , 317-331.		7
70	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
71	Development of the Wheat Practical Haplotype Graph database as a resource for genotyping data storage and genotype imputation. <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	7
72	Agronomic Traits in Durum Wheat Germplasm Possessing Puroindoline Genes. <i>Agronomy Journal</i> , 2019, 111, 1254-1265.	1.8	6

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73	Development of Automated High-Throughput Phenotyping System for Controlled Environment Studies. , 2017, , .		4
74	Identifying Loci Conferring Resistance to Leaf and Stripe Rusts in a Spring Wheat Population (<i>Triticum aestivum</i>) via Genome-Wide Association Mapping. <i>Phytopathology</i> , 2019, 109, 1932-1940.	2.2	4
75	Genome-wide mapping of resistance to stripe rust caused by <i>Puccinia striiformis</i> f. sp. <i>tritici</i> in hexaploid winter wheat. <i>Crop Science</i> , 2020, 60, 115-131.	1.8	4
76	Reliable DNA Markers for a Previously Unidentified, Yet Broadly Deployed Hessian Fly Resistance Gene on Chromosome 6B in Pacific Northwest Spring Wheat Varieties. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	4
77	Registration of "Dayn"™ Hard White Spring Wheat. <i>Journal of Plant Registrations</i> , 2018, 12, 222-227.	0.5	2
78	Registration of Hessian fly-resistant germplasm KS18WGRC65 carrying <i>H26</i> in hard red winter wheat "Overlay"™ background. <i>Journal of Plant Registrations</i> , 2020, 14, 206-209.	0.5	2
79	Registration of "Glee"™ Hard Red Spring Wheat. <i>Journal of Plant Registrations</i> , 2018, 12, 60-65.	0.5	1
80	Analysis of the primary sources of quantitative adult plant resistance to stripe rust in U.S. soft red winter wheat germplasm. <i>Plant Genome</i> , 2021, 14, e20082.	2.8	1