

Christopher C Mundt

List of Publications by Year in descending order

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116
papers

7,076
citations

76326

40
h-index

64796

79
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121
all docs

121
docs citations

121
times ranked

4766
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic diversity and disease control in rice. <i>Nature</i> , 2000, 406, 718-722.	27.8	1,338
2	USE OF MULTILINE CULTIVARS AND CULTIVAR MIXTURES FOR DISEASE MANAGEMENT. <i>Annual Review of Phytopathology</i> , 2002, 40, 381-410.	7.8	585
3	Durable resistance: A key to sustainable management of pathogens and pests. <i>Infection, Genetics and Evolution</i> , 2014, 27, 446-455.	2.3	280
4	Cereal variety and species mixtures in practice, with emphasis on disease resistance. <i>Agronomy for Sustainable Development</i> , 2000, 20, 813-837.	0.8	276
5	Epidemiology in Mixed Host Populations. <i>Phytopathology</i> , 1999, 89, 984-990.	2.2	263
6	Effect of population size on the estimation of QTL: a test using resistance to barley stripe rust. <i>Theoretical and Applied Genetics</i> , 2005, 111, 1260-1270.	3.6	185
7	Local adaptation and effect of host genotype on the rate of pathogen evolution: an experimental test in a plant pathosystem. <i>Journal of Evolutionary Biology</i> , 2002, 15, 634-647.	1.7	147
8	Specific adaptation by <i>Mycosphaerella graminicola</i> to a resistant wheat cultivar. <i>Plant Pathology</i> , 2000, 49, 445-451.	2.4	142
9	Pyramiding for Resistance Durability: Theory and Practice. <i>Phytopathology</i> , 2018, 108, 792-802.	2.2	131
10	Measuring Immigration and Sexual Reproduction in Field Populations of <i>Mycosphaerella graminicola</i> . <i>Phytopathology</i> , 1998, 88, 1330-1337.	2.2	114
11	How Knowledge of Pathogen Population Biology Informs Management of <i>Septoria Tritici</i> Blotch. <i>Phytopathology</i> , 2016, 106, 948-955.	2.2	112
12	Genetic analysis of adult plant, quantitative resistance to stripe rust in wheat cultivar "Stephens"™ in multi-environment trials. <i>Theoretical and Applied Genetics</i> , 2012, 124, 1-11.	3.6	109
13	Inheritance of Slow Rusting Resistance to Leaf Rust in Wheat. <i>Crop Science</i> , 1992, 32, 1452-1456.	1.8	107
14	Pyramiding and dissecting disease resistance QTL to barley stripe rust. <i>Theoretical and Applied Genetics</i> , 2006, 113, 485-495.	3.6	95
15	Long-Distance Dispersal and Accelerating Waves of Disease: Empirical Relationships. <i>American Naturalist</i> , 2009, 173, 456-466.	2.1	94
16	An Improved Method for Measuring Quantitative Resistance to the Wheat Pathogen <i>Zymoseptoria tritici</i> Using High-Throughput Automated Image Analysis. <i>Phytopathology</i> , 2016, 106, 782-788.	2.2	90
17	Aggressiveness of <i>Mycosphaerella graminicola</i> Isolates from Susceptible and Partially Resistant Wheat Cultivars. <i>Phytopathology</i> , 2002, 92, 624-630.	2.2	84
18	Panicle Blast and Canopy Moisture in Rice Cultivar Mixtures. <i>Phytopathology</i> , 2005, 95, 433-438.	2.2	79

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19	Emergence and early evolution of fungicide resistance in North American populations of <i>Zymoseptoria tritici</i> . <i>Plant Pathology</i> , 2015, 64, 961-971.	2.4	79
20	Disease severity and yield of pure-line wheat cultivars and mixtures in the presence of eyespot, yellow rust, and their combination. <i>Plant Pathology</i> , 1995, 44, 173-182.	2.4	78
21	Relevance of integrated disease management to resistance durability. <i>Euphytica</i> , 2002, 124, 245-252.	1.2	74
22	Probability of Mutation to Multiple Virulence and Durability of Resistance Gene Pyramids.. <i>Phytopathology</i> , 1990, 80, 221-223.	2.2	72
23	Plant competition and disease in genetically diverse wheat populations. <i>Oecologia</i> , 1992, 91, 82-92.	2.0	69
24	The Effects of Host Diversity and Other Management Components on Epidemics of Potato Late Blight in the Humid Highland Tropics. <i>Phytopathology</i> , 2001, 91, 993-1000.	2.2	69
25	Landscape heterogeneity and disease spread: experimental approaches with a plant pathogen. , 2011, 21, 321-328.		65
26	Host Diversity Can Reduce Potato Late Blight Severity for Focal and General Patterns of Primary Inoculum. <i>Phytopathology</i> , 2000, 90, 1307-1312.	2.2	63
27	Development of Crown Rust Epidemics in Genetically Diverse Oat Populations: Effect of Genotype Unit Area. <i>Phytopathology</i> , 1985, 75, 607.	2.2	62
28	Associations and genetics of three components of slow rusting in leaf rust of wheat. <i>Euphytica</i> , 1993, 68, 99-109.	1.2	61
29	Effects of Wheat Cultivar Mixtures on Epidemic Progression of <i>Septoria Tritici</i> Blotch and Pathogenicity of <i>Mycosphaerella graminicola</i> . <i>Phytopathology</i> , 2002, 92, 617-623.	2.2	60
30	Working with Resource-Poor Farmers to Manage Plant Diseases. <i>Plant Disease</i> , 2001, 85, 684-695.	1.4	58
31	Analysis of Factors Affecting Disease Increase and Spread in Mixtures of Immune and Susceptible Plants in Computer-Simulated Epidemics. <i>Phytopathology</i> , 1986, 76, 832.	2.2	56
32	Effect of Host Genotype Unit Area on Development of Focal Epidemics of Bean Rust and Common Maize Rust in Mixtures of Resistant and Susceptible Plants. <i>Phytopathology</i> , 1986, 76, 895.	2.2	55
33	Using Restriction Fragment Length Polymorphisms to Assess Temporal Variation and Estimate the Number of Ascospores that Initiate Epidemics in Field Populations of <i>Mycosphaerella graminicola</i> . <i>Phytopathology</i> , 2001, 91, 1011-1017.	2.2	54
34	Influence of plant spatial patterns on disease dynamics, plant competition and grain yield in genetically diverse wheat populations. <i>Agriculture, Ecosystems and Environment</i> , 1991, 35, 1-12.	5.3	51
35	A population-level invasion by transposable elements triggers genome expansion in a fungal pathogen. <i>ELife</i> , 2021, 10, .	6.0	49
36	Host-pathogen relationship of geographically diverse isolates of <i>Septoria tritici</i> and wheat cultivars. <i>Plant Pathology</i> , 1995, 44, 838-847.	2.4	47

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37	Using mixing ability analysis from two-way cultivar mixtures to predict the performance of cultivars in complex mixtures. <i>Field Crops Research</i> , 2000, 68, 121-132.	5.1	47
38	Evolution of a pathogen population in host mixtures: simple race vs complex race competition. <i>Plant Pathology</i> , 1996, 45, 440-453.	2.4	46
39	Methods for estimating epidemiological effects of quantitative resistance to plant diseases. <i>Theoretical and Applied Genetics</i> , 1984, 67, 219-230.	3.6	45
40	The role of selection on the genetic structure of pathogen populations: Evidence from field experiments with <i>Mycosphaerella graminicola</i> on wheat. <i>Euphytica</i> , 1996, 92, 73-80.	1.2	45
41	Multi-location wheat stripe rust QTL analysis: genetic background and epistatic interactions. <i>Theoretical and Applied Genetics</i> , 2015, 128, 1307-1318.	3.6	45
42	Importance of Autoinfection to the Epidemiology of Polycyclic Foliar Disease. <i>Phytopathology</i> , 2009, 99, 1116-1120.	2.2	43
43	Primary Disease Gradients of Wheat Stripe Rust in Large Field Plots. <i>Phytopathology</i> , 2005, 95, 983-991.	2.2	42
44	A Modification of Gregory's Model For Describing Plant Disease Gradients. <i>Phytopathology</i> , 1985, 75, 930.	2.2	41
45	Computerized Simulation of Crown Rust Epidemics in Mixtures of Immune and Susceptible Oat Plants with Different Genotype Unit Areas and Spatial Distributions of Initial Disease. <i>Phytopathology</i> , 1986, 76, 590.	2.2	41
46	Sexual reproduction facilitates the adaptation of parasites to antagonistic host environments: Evidence from empirical study in the wheat- <i>Mycosphaerella graminicola</i> system. <i>International Journal for Parasitology</i> , 2007, 37, 861-870.	3.1	40
47	Mixing ability analysis of wheat cultivar mixtures under diseased and nondiseased conditions. <i>Theoretical and Applied Genetics</i> , 1990, 80, 313-320.	3.6	39
48	Evolution of a pathogen population in host mixtures: rate of emergence of complex races. <i>Theoretical and Applied Genetics</i> , 1997, 94, 991-999.	3.6	39
49	Effect of wheat cultivar mixtures on populations of <i>Puccinia striiformis</i> races. <i>Plant Pathology</i> , 1994, 43, 917-930.	2.4	38
50	Aerial Dispersal and Multiple-Scale Spread of Epidemic Disease. <i>EcoHealth</i> , 2009, 6, 546-552.	2.0	38
51	Effect of Host Genotype Unit Area on Epidemic Development of Crown Rust Following Focal and General Inoculations of Mixtures of Immune and Susceptible Oat Plants. <i>Phytopathology</i> , 1985, 75, 1141.	2.2	38
52	Pyramiding and Validation of Quantitative Trait Locus (QTL) Alleles Determining Resistance to Barley Stripe Rust. <i>Crop Science</i> , 2003, 43, 2234-2239.	1.8	37
53	The Effects of Dispersal Gradient and Pathogen Life Cycle Components on Epidemic Velocity in Computer Simulations. <i>Phytopathology</i> , 2005, 95, 992-1000.	2.2	35
54	Influence of Number of Host Genotype Units on the Effectiveness of Host Mixtures for Disease Control: A Modeling Approach. <i>Phytopathology</i> , 1988, 78, 1087.	2.2	35

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55	Influence of barley variety mixtures on severity of scald and net blotch and on yield *. Plant Pathology, 1994, 43, 356-361.	2.4	34
56	Estimation of Rates of Recombination and Migration in Populations of Plant Pathogens—A Reply. Phytopathology, 2000, 90, 324-326.	2.2	34
57	Velocity of Spread of Wheat Stripe Rust Epidemics. Phytopathology, 2005, 95, 972-982.	2.2	33
58	Evidence of Selection for Fungicide Resistance in <i>Zymoseptoria tritici</i> Populations on Wheat in Western Oregon. Plant Disease, 2016, 100, 483-489.	1.4	33
59	Frequency of Sexual Reproduction by <i>Mycosphaerella graminicola</i> on Partially Resistant Wheat Cultivars. Phytopathology, 2002, 92, 1175-1181.	2.2	31
60	Degree of host susceptibility in the initial disease outbreak influences subsequent epidemic spread. Journal of Applied Ecology, 2014, 51, 1622-1630.	4.0	31
61	Probability of Mutation to Multiple Virulence and Durability of Resistance Gene Pyramids: Further Comments.. Phytopathology, 1991, 81, 240-242.	2.2	29
62	Effect of genotype unit number and spatial arrangement on severity of yellow rust in wheat cultivar mixtures. Plant Pathology, 1996, 45, 215-222.	2.4	28
63	Epidemiological Effect of Gene Deployment Strategies on Bacterial Blight of Rice. Phytopathology, 1997, 87, 66-70.	2.2	28
64	Wheat Leaf Rust Severity as Affected by Plant Density and Species Proportion in Simple Communities of Wheat and Wild Oats. Phytopathology, 1998, 88, 708-714.	2.2	28
65	Initial epidemic area is strongly associated with the yearly extent of soybean rust spread in North America. Biological Invasions, 2013, 15, 1431-1438.	2.4	28
66	Effects of Planting Density and the Composition of Wheat Cultivar Mixtures on Stripe Rust: An Analysis Taking into Account Limits to the Replication of Controls. Phytopathology, 2000, 90, 1313-1321.	2.2	27
67	DISEASE, FREQUENCY-DEPENDENT SELECTION, AND GENETIC POLYMORPHISMS: EXPERIMENTS WITH STRIPE RUST AND WHEAT. Evolution; International Journal of Organic Evolution, 2000, 54, 406-415.	2.3	27
68	Influential disease foci in epidemics and underlying mechanisms: a field experiment and simulations. , 2014, 24, 1854-1862.		27
69	Effect of Plant Age and Leaf Position on Susceptibility to Wheat Stripe Rust. Phytopathology, 2017, 107, 412-417.	2.2	26
70	First Report of Resistance to Qol Fungicides in North American Populations of <i>Zymoseptoria tritici</i> , Causal Agent of Septoria Tritici Blotch of Wheat. Plant Disease, 2013, 97, 1511-1511.	1.4	26
71	Effect of two-component cultivar mixtures and yellow rust on yield and yield components of wheat. Plant Pathology, 1997, 46, 566-580.	2.4	22
72	Spatial scaling relationships for spread of disease caused by a wind-dispersed plant pathogen. Ecosphere, 2012, 3, 1-10.	2.2	22

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73	Path coefficient analysis of the effects of stripe rust and cultivar mixtures on yield and yield components of winter wheat. <i>Theoretical and Applied Genetics</i> , 1996, 92, 666-672.	3.6	21
74	Specificity of Incomplete Resistance to <i>Mycosphaerella graminicola</i> in Wheat. <i>Phytopathology</i> , 2008, 98, 555-561.	2.2	21
75	Effect of plot geometry on epidemic velocity of wheat yellow rust. <i>Plant Pathology</i> , 2009, 58, 370-377.	2.4	21
76	Primary Disease Gradients of Bacterial Blight of Rice. <i>Phytopathology</i> , 1999, 89, 64-67.	2.2	19
77	Invasiveness of plant pathogens depends on the spatial scale of host distribution. <i>Ecological Applications</i> , 2016, 26, 1238-1248.	3.8	19
78	Consequences of Long-Distance Dispersal for Epidemic Spread: Patterns, Scaling, and Mitigation. <i>Plant Disease</i> , 2019, 103, 177-191.	1.4	19
79	Variation for aggressiveness within and between lineages of <i>Xanthomonas oryzae</i> pv. <i>oryzae</i> . <i>Plant Pathology</i> , 2002, 51, 163-168.	2.4	18
80	Disentangling the influence of livestock vs. farm density on livestock disease epidemics. <i>Ecosphere</i> , 2018, 9, e02294.	2.2	18
81	Effects of competition on resistance gene polymorphism in a plant/pathogen system. <i>Heredity</i> , 2000, 85, 393-400.	2.6	17
82	Interaction effects of two biological control organisms on resistant and susceptible weed biotypes of <i>Chondrilla juncea</i> in western North America. <i>Biological Control</i> , 2009, 50, 50-59.	3.0	16
83	Use of the Modified Gregory Model to Describe Primary Disease Gradients of Wheat Leaf Rust Produced From Area Sources of Inoculum. <i>Phytopathology</i> , 1989, 79, 241.	2.2	16
84	Local dispersal of <i>Puccinia striiformis</i> f. sp. <i>tritici</i> from isolated source lesions. <i>Plant Pathology</i> , 2017, 66, 28-37.	2.4	14
85	Phytoplankton biodiversity and the inverted paradox. <i>ISME Communications</i> , 2021, 1, .	4.2	14
86	Effects of stripe rust on the evolution of genetically diverse wheat populations. <i>Theoretical and Applied Genetics</i> , 1993, 85-85, 809-821.	3.6	13
87	Quantitative trait loci analysis for resistance to <i>Cephalosporium</i> stripe, a vascular wilt disease of wheat. <i>Theoretical and Applied Genetics</i> , 2011, 122, 1339-1349.	3.6	13
88	Cropping system diversification for food production in Mindanao rubber plantations: a rice cultivar mixture and rice intercropped with mungbean. <i>PeerJ</i> , 2017, 5, e2975.	2.0	12
89	TCAP FACWIN6 Elite Barley GWAS Panel QTL. I. Barley Stripe Rust Resistance QTL in Facultative and Winter Six-Rowed Malt Barley Breeding Programs Identified via GWAS. <i>Crop Science</i> , 2018, 58, 103-119.	1.8	12
90	Registration of the BISON Genetic Stocks in <i>Hordeum vulgare</i> L.. <i>Journal of Plant Registrations</i> , 2011, 5, 135-140.	0.5	11

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91	Biology and control of cephalosporium stripe of wheat. <i>Plant Pathology</i> , 2014, 63, 1207-1217.	2.4	11
92	Outbreak propagule pressure influences the landscape spread of a wind-dispersed, epidemic-causing, plant pathogen. <i>Landscape Ecology</i> , 2015, 30, 2111-2119.	4.2	11
93	Reduced Virulence of Azoxystrobin-Resistant <i>Zymoseptoria tritici</i> Populations in Greenhouse Assays. <i>Phytopathology</i> , 2016, 106, 884-889.	2.2	11
94	Temporal Dynamics and Spatial Variation of Azoxystrobin and Propiconazole Resistance in <i>Zymoseptoria tritici</i> : A Hierarchical Survey of Commercial Winter Wheat Fields in the Willamette Valley, Oregon. <i>Phytopathology</i> , 2017, 107, 345-352.	2.2	11
95	Baseline and Temporal Changes in Sensitivity of <i>Zymoseptoria tritici</i> Isolates to Benzovindiflupyr in Oregon, U.S.A., and Cross-Sensitivity to Other SDHI Fungicides. <i>Plant Disease</i> , 2021, 105, 169-174.	1.4	10
96	Lack of a synergistic interaction between ozone and wheat leaf rust in wheat swards. <i>Environmental and Experimental Botany</i> , 1999, 41, 195-207.	4.2	9
97	Identification of Cephalosporium stripe resistance quantitative trait loci in two recombinant inbred line populations of winter wheat. <i>Theoretical and Applied Genetics</i> , 2015, 128, 329-341.	3.6	9
98	Variable competitive effects of fungicide resistance in field experiments with a plant pathogenic fungus. <i>Ecological Applications</i> , 2017, 27, 1305-1316.	3.8	9
99	Sensitivity variation and cross-resistance of <i>Zymoseptoria tritici</i> to azole fungicides in North America. <i>European Journal of Plant Pathology</i> , 2017, 151, 269.	1.7	9
100	Genetic structure and population diversity in the wheat sharp eyespot pathogen <i>Rhizoctonia cerealis</i> in the Willamette Valley, Oregon, USA. <i>Plant Pathology</i> , 2020, 69, 101-111.	2.4	9
101	Sensitivity of Wheat Genotypes to a Toxic Fraction Produced by <i>Cephalosporium gramineum</i> and Correlation with Disease Susceptibility. <i>Phytopathology</i> , 2001, 91, 702-707.	2.2	8
102	A Hydroponic Seedling Assay for Resistance to Cephalosporium Stripe of Wheat. <i>Plant Disease</i> , 1998, 82, 1126-1131.	1.4	7
103	Number of genes controlling slow rusting resistance to leaf rust in five spring wheat cultivars. <i>Annals of Applied Biology</i> , 2004, 145, 91-94.	2.5	7
104	The effect of diversity and spatial arrangement on biomass of agricultural cultivars and native plant species. <i>Basic and Applied Ecology</i> , 2007, 8, 521-532.	2.7	7
105	Diversifying variety for the control of Rice Blast in China. <i>Biodiversity</i> , 2001, 2, 10-14.	1.1	6
106	Impact of density and disease on frequency-dependent selection and genetic polymorphism: experiments with stripe rust and wheat. <i>Evolutionary Ecology</i> , 2008, 22, 637-657.	1.2	6
107	Frequency of Sexual Recombination by <i>Mycosphaerella graminicola</i> in Mild and Severe Epidemics. <i>Phytopathology</i> , 2008, 98, 752-759.	2.2	6
108	The Study of Plant Disease Epidemics. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2009, 44, 2065b-2065.	1.0	6

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109	A Genome-Wide Association Study of Resistance to <i>Puccinia striiformis</i> f. sp. <i>hordei</i> and <i>P. graminis</i> f. sp. <i>tritici</i> in Barley and Development of Resistant Germplasm. <i>Phytopathology</i> , 2020, 110, 1082-1092.	2.2	5
110	Relationship between Incidence of Cephalosporium Stripe and Yield Loss in Winter Wheat. <i>International Journal of Agronomy</i> , 2012, 2012, 1-9.	1.2	4
111	Delays in Epidemic Outbreak Control Cost Disproportionately Large Treatment Footprints to Offset. <i>Pathogens</i> , 2022, 11, 393.	2.8	4
112	Dispersal kernels may be scalable: Implications from a plant pathogen. <i>Journal of Biogeography</i> , 2019, 46, 2042-2055.	3.0	3
113	Path coefficient analysis of the effects of stripe rust and cultivar mixtures on yield and yield components of winter wheat. <i>Theoretical and Applied Genetics</i> , 1996, 92, 666-672.	3.6	3
114	Combined effects of disease and competition on plant fitness. <i>Canadian Journal of Botany</i> , 2000, 78, 646-654.	1.1	3
115	Methods for Screening Wheat Genotypes for Resistance to Sharp Eyespot in the Field and Greenhouse. <i>Plant Disease</i> , 2020, 104, 3192-3196.	1.4	2
116	Comparing the efficacy of control strategies for infectious disease outbreaks using field and simulation studies. <i>Ecological Applications</i> , 2022, , e2631.	3.8	1