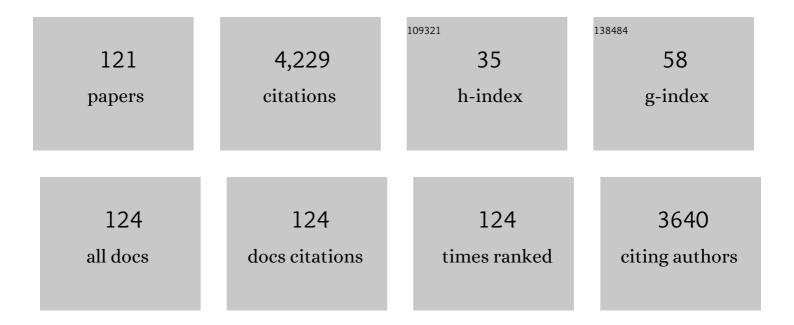
Wallace A Cowling

List of Publications by Year in descending order

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Version: 2024-02-01



#	Article	IF	CITATIONS
1	Quantitative Inheritance of Sclerotinia Stem Rot Resistance in <i>Brassica napus</i> and Relationship to Cotyledon and Leaf Resistances. Plant Disease, 2022, 106, 127-136.	1.4	4
2	Quantitative Trait Loci for Heat Stress Tolerance in Brassica rapa L. Are Distributed across the Genome and Occur in Diverse Genetic Groups, Flowering Phenologies and Morphotypes. Genes, 2022, 13, 296.	2.4	1
3	Heat Stress during Meiosis Has Lasting Impacts on Plant Growth and Reproduction in Wheat (Triticum) Tj ETQq1	1 0.7843 3.0	14 _. rgBT /Ove
4	Transient daily heat stress during the early reproductive phase disrupts pod and seed development in <i>Brassica napus</i> L. Food and Energy Security, 2021, 10, e262.	4.3	21
5	Female reproductive organs of Brassica napus are more sensitive than male to transient heat stress. Euphytica, 2021, 217, 1.	1.2	2
6	Gaining Acceptance of Novel Plant Breeding Technologies. Trends in Plant Science, 2021, 26, 575-587.	8.8	34
7	Status and advances in mining for blackleg (Leptosphaeria maculans) quantitative resistance (QR) in oilseed rape (Brassica napus). Theoretical and Applied Genetics, 2021, 134, 3123-3145.	3.6	7
8	A Trimethylguanosine Synthase1-like (TGS1) homologue is implicated in vernalisation and flowering time control. Theoretical and Applied Genetics, 2021, 134, 3411-3426.	3.6	9
9	Rapid delivery systems for future food security. Nature Biotechnology, 2021, 39, 1179-1181.	17.5	17
10	Fast-forward breeding for a food-secure world. Trends in Genetics, 2021, 37, 1124-1136.	6.7	82
11	Multivariate genomic analysis and optimal contributions selection predicts high genetic gains in cooking time, iron, zinc, and grain yield in common beans in East Africa. Plant Genome, 2021, 14, e20156.	2.8	13
12	A multiplex PCR marker distinguishes between a series of four LanFTc1 alleles regulating flowering time in narrowâ€leafed lupin (Lupinus angustifolius). Plant Breeding, 2021, 140, 1090-1101.	1.9	0
13	A chickpea genetic variation map based on the sequencing of 3,366 genomes. Nature, 2021, 599, 622-627.	27.8	106
14	Diversity Breeding Program on Common Bean (Phaseolus vulgaris L.) Targeting Rapid Cooking and Iron and Zinc Biofortification. Proceedings (mdpi), 2020, 36, .	0.2	1
15	Inheritance of leaf resistance to Sclerotinia sclerotiorum in Brassica napus and its genetic correlation with cotyledon resistance. Euphytica, 2020, 216, 1.	1.2	7
16	In silico simulation of future hybrid performance to evaluate heterotic pool formation in a self-pollinating crop. Scientific Reports, 2020, 10, 4037.	3.3	9
17	Patterns of inheritance for cotyledon resistance against Sclerotinia sclerotiorum in Brassica napus. Euphytica, 2020, 216, 1.	1.2	11
18	Genetic Diversity in Narrow-Leafed Lupin Breeding After the Domestication Bottleneck. Compendium of Plant Genomes, 2020, , 1-17.	0.5	10

#	Article	IF	CITATIONS
19	Ecophysiology and Phenology: Genetic Resources for Genetic/Genomic Improvement of Narrow-Leafed Lupin. Compendium of Plant Genomes, 2020, , 19-30.	0.5	6
20	Genomic Applications and Resources to Dissect Flowering Time Control in Narrow-Leafed Lupin. Compendium of Plant Genomes, 2020, , 109-137.	0.5	2
21	Correction to: Genetic Diversity in Narrow-Leafed Lupin Breeding After the Domestication Bottleneck. Compendium of Plant Genomes, 2020, , C1-C3.	0.5	0
22	Modeling crop breeding for global food security during climate change. Food and Energy Security, 2019, 8, e00157.	4.3	24
23	INDEL variation in the regulatory region of the major flowering time gene <i>LanFTc1</i> is associated with vernalization response and flowering time in narrowâ€leafed lupin (<i>Lupinus angustifolius</i>) Tj ETQq1	1 05784314	l rgBT /Overl
24	Nondestructive Phenomic Tools for the Prediction of Heat and Drought Tolerance at Anthesis in <i>Brassica</i> Species. Plant Phenomics, 2019, 2019, 3264872.	5.9	27
25	Crop breeding to break nexus between bee decline/food production?. Global Food Security, 2018, 19, 56-63.	8.1	2
26	A High-Density Genetic Map of an Allohexaploid Brassica Doubled Haploid Population Reveals Quantitative Trait Loci for Pollen Viability and Fertility. Frontiers in Plant Science, 2018, 9, 1161.	3.6	18
27	Evolving gene banks: improving diverse populations of crop and exotic germplasm with optimal contribution selection. Journal of Experimental Botany, 2017, 68, erw406.	4.8	39
28	Drought-Tolerant Brassica rapa Shows Rapid Expression of Gene Networks for General Stress Responses and Programmed Cell Death Under Simulated Drought Stress. Plant Molecular Biology Reporter, 2017, 35, 416-430.	1.8	30
29	The loss of vernalization requirement in narrowâ€leafed lupin is associated with a deletion in the promoter and deâ€repressed expression of a <i>Flowering Locus T</i> (<i><scp>FT</scp></i>) homologue. New Phytologist, 2017, 213, 220-232.	7.3	70
30	Can genomics assist the phenological adaptation of canola to new and changing environments?. Crop and Pasture Science, 2016, 67, 284.	1.5	17
31	Neglecting legumes has compromised human health and sustainable food production. Nature Plants, 2016, 2, 16112.	9.3	529
32	Continuing innovation in Australian canola breeding. Crop and Pasture Science, 2016, 67, 266.	1.5	24
33	The first genetic map of a synthesized allohexaploid Brassica with A, B and C genomes based on simple sequence repeat markers. Theoretical and Applied Genetics, 2016, 129, 689-701.	3.6	21
34	Using the Animal Model to Accelerate Response to Selection in a Self-Pollinating Crop. G3: Genes, Genomes, Genetics, 2015, 5, 1419-1428.	1.8	16
35	Microspore culture reveals complex meiotic behaviour in a trigenomic Brassica hybrid. BMC Plant Biology, 2015, 15, 173.	3.6	24
36	Genotypic Variation for Tolerance to Transient Drought During the Reproductive Phase of <i>Brassica rapa</i> . Journal of Agronomy and Crop Science, 2015, 201, 267-279.	3.5	8

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37	Quantitative Trait Loci for Thermal Time to Flowering and Photoperiod Responsiveness Discovered in Summer Annual-Type Brassica napus L. PLoS ONE, 2014, 9, e102611.	2.5	69
38	Highâ€resolution molecular karyotyping uncovers pairing between ancestrally related Brassica chromosomes. New Phytologist, 2014, 202, 964-974.	7.3	31
39	The Fate of Chromosomes and Alleles in an Allohexaploid <i>Brassica</i> Population. Genetics, 2014, 197, 273-283.	2.9	34
40	Center of Origin and Centers of Diversity in an Ancient Crop, Brassica rapa (Turnip Rape). Journal of Heredity, 2014, 105, 555-565.	2.4	73
41	Genetic Variation for Heat Tolerance During the Reproductive Phase in <i><scp>B</scp>rassica rapa</i> . Journal of Agronomy and Crop Science, 2013, 199, 424-435.	3.5	27
42	A consensus map of rapeseed (Brassica napus L.) based on diversity array technology markers: applications in genetic dissection of qualitative and quantitative traits. BMC Genomics, 2013, 14, 277.	2.8	62
43	Doubled haploids of novel trigenomic Brassica derived from various interspecific crosses. Plant Cell, Tissue and Organ Culture, 2013, 113, 501-511.	2.3	31
44	The <i><scp>B</scp>rassica napus</i> blackleg resistance gene <scp><i>LepR3</i></scp> encodes a receptorâ€like protein triggered by the <i><scp>L</scp>eptosphaeria maculans</i> effector <scp>AVRLM</scp> 1. New Phytologist, 2013, 197, 595-605.	7.3	237
45	Sustainable plant breeding. Plant Breeding, 2013, 132, 1-9.	1.9	40
46	A bivariate mixed model approach for the analysis of plant survival data. Euphytica, 2013, 190, 371-383.	1.2	10
47	Evidence from Genome-wide Simple Sequence Repeat Markers for a Polyphyletic Origin and Secondary Centers of Genetic Diversity of Brassica juncea in China and India. Journal of Heredity, 2013, 104, 416-427.	2.4	69
48	Delayed water loss and temperature rise in floral buds compared with leaves of Brassica rapa subjected to a transient water stress during reproductive development. Functional Plant Biology, 2013, 40, 690.	2.1	18
49	Global genetic diversity in oilseed Brassica rapa. Crop and Pasture Science, 2013, 64, 993.	1.5	25
50	Diversity Array Technology Markers: Genetic Diversity Analyses and Linkage Map Construction in Rapeseed (Brassica napus L.). DNA Research, 2012, 19, 51-65.	3.4	47
51	A new method for producing allohexaploid Brassica through unreduced gametes. Euphytica, 2012, 186, 277-287.	1.2	32
52	Characterization of Brassica nigra collections using simple sequence repeat markers reveals distinct groups associated with geographical location, and frequent mislabelling of species identity. Genome, 2011, 54, 50-63.	2.0	24
53	Improvement in efficiency of microspore culture to produce doubled haploid canola (Brassica napus) Tj ETQq1 I	. 0.784314 2.3	FrgBT /Overlo
54	Genotypic effects on the frequency of homoeologous and homologous recombination in Brassica napusÂĂ—ÂB_carinata hybrids. Theoretical and Applied Genetics. 2011, 122, 543-553	3.6	39

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55	Structural and functional comparative mapping between the Brassica A genomes in allotetraploid Brassica napus and diploid Brassica rapa. Theoretical and Applied Genetics, 2011, 123, 927-941.	3.6	36
56	Production of viable male unreduced gametes in Brassica interspecific hybrids is genotype specific and stimulated by cold temperatures. BMC Plant Biology, 2011, 11, 103.	3.6	109
57	Trigenomic Bridges for <i>Brassica</i> Improvement. Critical Reviews in Plant Sciences, 2011, 30, 524-547.	5.7	83
58	Allelic diversity in a novel gene pool of canola-quality Brassica napus enriched with alleles from B. rapa and B. carinata. Crop and Pasture Science, 2010, 61, 483.	1.5	35
59	Trigenomic hybrids from interspecific crosses between Brassica napus and B. nigra. Crop and Pasture Science, 2010, 61, 464.	1.5	14
60	Genome structure affects the rate of autosyndesis and allosyndesis in AABC, BBAC and CCAB Brassica interspecific hybrids. Chromosome Research, 2010, 18, 655-666.	2.2	65
61	Successful induction of trigenomic hexaploid Brassica from a triploid hybrid of B. napus L. and B. nigra (L.) Koch. Euphytica, 2010, 176, 87-98.	1.2	36
62	Aligning a New Reference Genetic Map of Lupinus angustifolius with the Genome Sequence of the Model Legume, Lotus japonicus. DNA Research, 2010, 17, 73-83.	3.4	73
63	Analysis of yield and oil from a series of canola breeding trials. Part I. Fitting factor analytic mixed models with pedigree informationThis 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, 992-1001.	2.0	58
64	Analysis of yield and oil from a series of canola breeding trials. Part II. Exploring variety by environment interaction using factor analysisThis 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, 1002-1016.	2.0	88
65	Exploiting genome-wide association in oilseed <i>Brassica</i> speciesThis 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, 853-855.	2.0	0
66	Prospects and challenges for genome-wide association and genomic selection in oilseed Brassica speciesThis 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 farming― Genome, 2010, 53, 1024-1028.	2.0	16
67	An efficient highâ€throughput flow cytometric method for estimating DNA ploidy level in plants. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2009, 75A, 1015-1019.	1.5	57
68	Microspore culture preferentially selects unreduced (2n) gametes from an interspecific hybrid of Brassica napus L.Â×ÂBrassica carinata Braun. Theoretical and Applied Genetics, 2009, 119, 497-505.	3.6	63
69	Significant reduction of fungal disease symptoms in transgenic lupin (<i>Lupinus angustifolius</i>) expressing the antiâ€apoptotic baculovirus gene <i>p35</i> . Plant Biotechnology Journal, 2009, 7, 778-790.	8.3	17
70	Canola oil increases in polyunsaturated fatty acids and decreases in oleic acid in droughtâ€stressed Mediterraneanâ€ŧype environments. Plant Breeding, 2009, 128, 348-355.	1.9	68
71	A model for incorporating novel alleles from the primary gene pool into elite crop breeding programs while reselecting major genes for domestication or adaptation. Crop and Pasture Science, 2009, 60, 1009.	1.5	41

Divergent patterns of allelic diversity from similar origins: the case of oilseed rape ($\langle i \rangle$ Brassica) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62

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73	Additive genetic variance for stem strength in field pea (Pisum sativum). Australian Journal of Agricultural Research, 2008, 59, 80.	1.5	13
74	<i>Leptosphaeria maculans</i> Elicits Apoptosis Coincident with Leaf Lesion Formation and Hyphal Advance in <i>Brassica napus</i> . Molecular Plant-Microbe Interactions, 2008, 21, 1143-1153.	2.6	12
75	Two Cycles of Recurrent Selection Lead to Simultaneous Improvement in Black Spot Resistance and Stem Strength in Field Pea. Crop Science, 2008, 48, 2235-2244.	1.8	15
76	Enhancement of genetic diversity in canola-quality Brassica napus and B. juncea by interspecific hybridisation. Australian Journal of Agricultural Research, 2008, 59, 918.	1.5	14
77	Variation in fatty acid composition among genetically homogeneous seeds of canola (Brassica napus), and implications for genotypic selection based on single seeds. Australian Journal of Agricultural Research, 2008, 59, 926.	1.5	2
78	Genetic diversity in Australian canola and implications for crop breeding for changing future environments. Field Crops Research, 2007, 104, 103-111.	5.1	125
79	Tracing B-genome chromatin in Brassica napus × B. juncea interspecific progeny. Genome, 2006, 49, 1490-1497.	2.0	32
80	Osmotic adjustment in leaves of Brassica oilseeds in response to water deficit. Canadian Journal of Plant Science, 2006, 86, 389-397.	0.9	5
81	The first gene-based map of Lupinus angustifolius Llocation of domestication genes and conserved synteny with Medicago truncatula. Theoretical and Applied Genetics, 2006, 113, 225-238.	3.6	116
82	Genetic variation in stem strength in field pea (Pisum sativum L.) and its association with compressed stem thickness. Australian Journal of Agricultural Research, 2006, 57, 193.	1.5	15
83	Seed alkaloid concentrations are not affected by agronomic and phosphorus-nutrition treatments that reduce Pleiochaeta setosa Hughes disease on narrow-leafed lupin (Lupinus angustifolius). Australian Journal of Experimental Agriculture, 2006, 46, 681.	1.0	3
84	Optical coherence tomography as a novel tool for non-destructive measurement of the hull thickness of lupin seeds. Plant Breeding, 2004, 123, 266-270.	1.9	37
85	A PCR based B-genome-specific marker in Brassica species. Theoretical and Applied Genetics, 2004, 109, 917-921.	3.6	40
86	Solute accumulation and osmotic adjustment in leaves of Brassica oilseeds in response to soil water deficit. Australian Journal of Agricultural Research, 2004, 55, 939.	1.5	43
87	Effect of genotype and environment on seed quality in sweet narrow-leafed lupin (Lupinus) Tj ETQq1 1 0.784314	rgBT /Ove	erlgck 10 Tf 5
88	Pro-embryos of Lupinus spp. produced from isolated microspore culture. Australian Journal of Agricultural Research, 2004, 55, 589.	1.5	22
89	Title is missing!. Plant and Soil, 2003, 253, 413-427.	3.7	38
90	Identification of a single dominant allele for resistance to blackleg in Brassica napus â€~Surpass 400'. Plant Breeding, 2003, 122, 485-488.	1.9	55

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91	Title is missing!. Euphytica, 2002, 125, 35-44.	1.2	27
92	Title is missing!. Molecular Breeding, 2001, 7, 203-209.	2.1	58
93	Lupins (Lupinus L.). Current Plant Science and Biotechnology in Agriculture, 2001, , 191-206.	0.0	5
94	Utilisation Of Grain Legume Diversity. Current Plant Science and Biotechnology in Agriculture, 2001, , 311-326.	0.0	2
95	Lupin Breeding in Australia. Current Plant Science and Biotechnology in Agriculture, 2000, , 541-547.	0.0	14
96	Lupinus ssp: conserved resources, priorities for collection and future prospects. Current Plant Science and Biotechnology in Agriculture, 2000, , 635-644.	0.0	3
97	Screening for resistance to Diaporthe toxica in lupins by estimation of phomopsins and glucoseamine in individual plants. Plant Pathology, 1999, 48, 320-324.	2.4	11
98	Histological observations of latent infection and tissue colonization by <i>Diaporthe toxica</i> in resistant and susceptible narrow-leafed lupins. Canadian Journal of Botany, 1998, 76, 1305-1316.	1,1	6
99	Heritability of resistance to brown spot and root rot of narrow-leafed lupins caused by Pleiochaeta setosa (Kirchn.) Hughes in field experiments. Plant Breeding, 1997, 116, 341-345.	1.9	17
100	Relationship between morphological variation and geographical origin or selection history in Lupinus pilosus. Plant Breeding, 1996, 115, 16-22.	1.9	15
101	Interspecific reproductive barriers and genomic similarity among the rough-seeded Lupinus species. Plant Breeding, 1996, 115, 123-127.	1.9	26
102	The leaf infection process and resistance to Pleiochaeta setosa in three lupin species. Australian Journal of Agricultural Research, 1996, 47, 787.	1.5	17
103	The Expression of Resistance to Latent Stem Infection byDiaporthe toxicain Narrow-Leafed Lupin. Phytopathology, 1996, 86, 692.	2.2	21
104	Resistance to seed transmission of cucumber mosaic virus in narrow-leafed lupins (Lupinus) Tj ETQq0 0 0 rgBT /0	Overlock 1	0 Tf 50 222 T
105	Anthracnose of Lupins in Western Australia Australasian Plant Pathology, 1995, 24, 271.	1.0	23
106	Detection of resistance to Diaporthe toxica in asymptomatically infected lupin seedlings based on an immunoassay for phomopsin. Plant Pathology, 1995, 44, 95-97.	2.4	3
107	Patterns of morphological diversity in relation to geographical origins of wild Lupinus angustifolius from the Aegean region. Genetic Resources and Crop Evolution, 1994, 41, 109-122.	1.6	33
108	Diaporthe toxica sp. nov., the cause of lupinosis in sheep. Mycological Research, 1994, 98, 1364-1368.	2.5	41

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109	Association between collection site soil pH and chlorosis in Lupinus angustifolius induced by a fine-textured, alkaline soil. Australian Journal of Agricultural Research, 1993, 44, 1821.	1.5	15
110	Formation of Subcuticular Coralloid Hyphae by <i>Phomopsis leptostromiformis</i> Upon Latent Infection of Narrow-Leafed Lupins. Plant Disease, 1991, 75, 1023.	1.4	29
111	Resistance to Phomopsis stem and pod blight of narrow-leafed lupin in a range of environments and its association with reduced Phomopsis seed infection Australian Journal of Experimental Agriculture, 1989, 29, 43.	1.0	9
112	Resistance to Phomopsis stem blight reduces the lupinosis toxicity of narrow-leafed lupin stems. Australian Journal of Experimental Agriculture, 1988, 28, 195.	1.0	15
113	Resistance to Phomopsis Stem Blight in <i>Lupinus Angustifolius</i> L. ¹ . Crop Science, 1987, 27, 648-652.	1.8	23
114	Genetic evidence for a single functional deficiency in isolates of Nectria haematococca unable to demethylate pisatin. Canadian Journal of Botany, 1986, 64, 350-354.	1.1	4
115	Use of a Paraquat-Diquat Herbicide for the Detection of Phomopsis Leptostromiformis Infection in Lupins Australasian Plant Pathology, 1984, 13, 45.	1.0	9
116	UC 1249 and UC 1250, Stemphyllium Leafspot Resistant Alfalfa Germplasm. Crop Science, 1983, 23, 805-805.	1.8	1
117	Effect of Light and Moisture on Severity of Stemphylium Leaf Spot of Alfalfa. Plant Disease, 1982, 66, 291.	1.4	5
118	Expression of Pathogen Virulence and Host Resistance During Infection of Alfalfa with <i>Stemphylium botryosum</i> . Phytopathology, 1982, 72, 36.	2.2	6
119	Progress in Selecting for Resistance to Stemphylium botryosum (Coolâ€Temperature Biotype) in Alfalfa 1. Crop Science, 1982, 22, 1155-1159.	1.8	5
120	Biotypes of <i>Stemphylium botryosum</i> on Alfalfa in North America. Phytopathology, 1981, 71, 679.	2.2	12
121	Influence of the Pathogen on Disease Severity in Stemphylium Leafspot of Alfalfa in California. Phytopathology, 1980, 70, 1148.	2.2	8