

Arron Carter

List of Publications by Year in descending order

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Version: 2024-02-01

106
papers

3,723
citations

249298

26
h-index

169272

56
g-index

121
all docs

121
docs citations

121
times ranked

3655
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Trait Multi-Environment Genomic Prediction for End-Use Quality Traits in Winter Wheat. <i>Frontiers in Genetics</i> , 2022, 13, 831020.	1.1	24
2	Prospectus of Genomic Selection and Phenomics in Cereal, Legume and Oilseed Breeding Programs. <i>Frontiers in Genetics</i> , 2022, 12, .	1.1	26
3	Genomic variants affecting homoeologous gene expression dosage contribute to agronomic trait variation in allopolyploid wheat. <i>Nature Communications</i> , 2022, 13, 826.	5.8	31
4	Classification and Regression Models for Genomic Selection of Skewed Phenotypes: A Case for Disease Resistance in Winter Wheat (<i>Triticum aestivum</i> L.). <i>Frontiers in Genetics</i> , 2022, 13, 835781.	1.1	6
5	Utilizing Genomic Selection for Wheat Population Development and Improvement. <i>Agronomy</i> , 2022, 12, 522.	1.3	16
6	Genomic Analysis and Delineation of the Tan Spot Susceptibility Locus Tsc1 in Wheat. <i>Frontiers in Plant Science</i> , 2022, 13, 793925.	1.7	4
7	Optimizing Plant Breeding Programs for Genomic Selection. <i>Agronomy</i> , 2022, 12, 714.	1.3	24
8	Genetic architecture of end-use quality traits in soft white winter wheat. <i>BMC Genomics</i> , 2022, 23, .	1.2	2
9	Application of the factor analytic model to assess wheat falling number performance and stability in multienvironment trials. <i>Crop Science</i> , 2021, 61, 372-382.	0.8	7
10	Registration of the wheat Dâ€šgenome nested association mapping (DNAM) population. <i>Journal of Plant Registrations</i> , 2021, 15, 215-222.	0.4	1
11	Registration of â€˜Devoteâ€™™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 121-131.	0.4	2
12	Registration of â€˜Stingray CL+â€™™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 161-171.	0.4	0
13	Registration of â€˜Scorpioâ€™™ hard red winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 113-120.	0.4	0
14	Seedling elongation responses to gibberellin seed treatments in wheat. , 2021, 4, e20144.		1
15	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.	1.7	50
16	Genome-wide association mapping of the â€˜super-softâ€™™ kernel texture in white winter wheat. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2547-2559.	1.8	12
17	Development of a Raspberry Pi-Based Sensor System for Automated In-Field Monitoring to Support Crop Breeding Programs. <i>Inventions</i> , 2021, 6, 42.	1.3	15
18	Association mapping of sponge cake volume in U.S. Pacific Northwest elite soft white wheat (<i>Triticum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.8	3

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19	Genomic Selection for End-Use Quality and Processing Traits in Soft White Winter Wheat Breeding Program with Machine and Deep Learning Models. <i>Biology</i> , 2021, 10, 689.	1.3	37
20	Registration of "Castella"™ soft white winter club wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 504-514.	0.4	2
21	Breeding With Major and Minor Genes: Genomic Selection for Quantitative Disease Resistance. <i>Frontiers in Plant Science</i> , 2021, 12, 713667.	1.7	22
22	Environment characterization and genomic prediction for end-use quality traits in soft white winter wheat. <i>Plant Genome</i> , 2021, 14, e20128.	1.6	5
23	Multitrait machine and deep learning models for genomic selection using spectral information in a wheat breeding program. <i>Plant Genome</i> , 2021, 14, e20119.	1.6	56
24	Comparison of genomic selection models for exploring predictive ability of complex traits in breeding programs. <i>Plant Genome</i> , 2021, 14, e20158.	1.6	17
25	Registration of "Resilience CL+"™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 196-205.	0.4	0
26	Comparison of Single-Trait and Multi-Trait Genome-Wide Association Models and Inclusion of Correlated Traits in the Dissection of the Genetic Architecture of a Complex Trait in a Breeding Program. <i>Frontiers in Plant Science</i> , 2021, 12, 772907.	1.7	10
27	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.	1.3	26
28	Registration of "Mela CL+"™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 144-152.	0.4	2
29	Identification of a major dominant gene for race-nonspecific tan spot resistance in wild emmer wheat. <i>Theoretical and Applied Genetics</i> , 2020, 133, 829-841.	1.8	26
30	How "Madsen"™ has shaped Pacific Northwest wheat and beyond. <i>Journal of Plant Registrations</i> , 2020, 14, 223-233.	0.4	3
31	Utilization of Evolutionary Plant Breeding Increases Stability and Adaptation of Winter Wheat Across Diverse Precipitation Zones. <i>Sustainability</i> , 2020, 12, 9728.	1.6	15
32	Genomic Selection in Winter Wheat Breeding Using a Recommender Approach. <i>Genes</i> , 2020, 11, 779.	1.0	16
33	Carbohydrate Accumulation and Differential Transcript Expression in Winter Wheat Lines with Different Levels of Snow Mold and Freezing Tolerance after Cold Treatment. <i>Plants</i> , 2020, 9, 1416.	1.6	3
34	Registration of "Curiosity CL+"™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 377-387.	0.4	2
35	Evaluation of silica content in winter wheat chaff. <i>Agricultural and Environmental Letters</i> , 2020, 5, e20025.	0.8	4
36	Registration of "Purl"™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 398-405.	0.4	1

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37	Registration of the Louiseâ€Penawawa spring wheat recombinant inbred line mapping population. <i>Journal of Plant Registrations</i> , 2020, 14, 474-480.	0.4	3
38	Genomic Prediction and Indirect Selection for Grain Yield in US Pacific Northwest Winter Wheat Using Spectral Reflectance Indices from High-Throughput Phenotyping. <i>International Journal of Molecular Sciences</i> , 2020, 21, 165.	1.8	29
39	Unraveling complex traits in wheat: Approaches for analyzing genotypeâ€Environment interactions in a multienvironment study of falling numbers. <i>Crop Science</i> , 2020, 60, 3013-3026.	0.8	19
40	Gains through selection for grain yield in a winter wheat breeding program. <i>PLoS ONE</i> , 2020, 15, e0221603.	1.1	25
41	Insights into the Genetic Architecture of Phenotypic Stability Traits in Winter Wheat. <i>Agronomy</i> , 2020, 10, 368.	1.3	26
42	Deep Learning for Predicting Complex Traits in Spring Wheat Breeding Program. <i>Frontiers in Plant Science</i> , 2020, 11, 613325.	1.7	64
43	Toward a New Use for Carbon Isotope Discrimination in Wheat Breeding. <i>Agronomy</i> , 2019, 9, 385.	1.3	3
44	Rapid Estimation of Wheat Straw Decomposition Constituents Using Near-Infrared Spectroscopy. <i>Agronomy</i> , 2019, 9, 462.	1.3	7
45	Registration of the Finchâ€Eltan Winter Wheat Recombinant Inbred Line Mapping Population. <i>Journal of Plant Registrations</i> , 2019, 13, 287-293.	0.4	3
46	Selecting winter wheat straw for cellulosic ethanol production in the Pacific Northwest, U.S.A. <i>Biomass and Bioenergy</i> , 2019, 123, 59-69.	2.9	16
47	Genetic Dissection of Snow Mold Tolerance in US Pacific Northwest Winter Wheat Through Genome-Wide Association Study and Genomic Selection. <i>Frontiers in Plant Science</i> , 2019, 10, 1337.	1.7	19
48	Evaluating Selection of a Quantitative Trait: Snow Mold Tolerance in Winter Wheat. , 2019, 2, 1-8.		5
49	Evaluating the Utility of Carbon Isotope Discrimination for Wheat Breeding in the Pacific Northwest. <i>Plant Phenomics</i> , 2019, 2019, 4528719.	2.5	6
50	Isolation of Mutations Conferring Increased Glyphosate Resistance in Spring Wheat. <i>Crop Science</i> , 2018, 58, 84-97.	0.8	4
51	Registration of Two Wheat Germplasm Lines Fixed for Pm58. <i>Journal of Plant Registrations</i> , 2018, 12, 270-273.	0.4	3
52	Spectral Reflectance for Indirect Selection and Genomeâ€Wide Association Analyses of Grain Yield and Drought Tolerance in North American Spring Wheat. <i>Crop Science</i> , 2018, 58, 2289-2301.	0.8	14
53	Using Spectral Reflectance Indices as Proxy Phenotypes for Genomeâ€Wide Association Studies of Yield and Yield Stability in Pacific Northwest Winter Wheat. <i>Crop Science</i> , 2018, 58, 1232-1241.	0.8	17
54	Genomeâ€Wide Association Study of Yield and Component Traits in Pacific Northwest Winter Wheat. <i>Crop Science</i> , 2018, 58, 2315-2330.	0.8	7

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55	Characterizing and Validating Stripe Rust Resistance Loci in US Pacific Northwest Winter Wheat Accessions (<i>Triticum aestivum</i> L.) by Genome-wide Association and Linkage Mapping. <i>Plant Genome</i> , 2018, 11, 170087.	1.6	26
56	Identification and validation of QTL for grain yield and plant water status under contrasting water treatments in fall-sown spring wheats. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1741-1759.	1.8	90
57	Genome-Wide Association Mapping for Tolerance to Preharvest Sprouting and Low Falling Numbers in Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 141.	1.7	62
58	Genetic Dissection of End-Use Quality Traits in Adapted Soft White Winter Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 271.	1.7	43
59	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.	0.8	29
60	Genome-wide association mapping for eyespot disease in US Pacific Northwest winter wheat. <i>PLoS ONE</i> , 2018, 13, e0194698.	1.1	16
61	Genomic Regions Associated with Tolerance to Freezing Stress and Snow Mold in Winter Wheat. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 775-780.	0.8	39
62	Genetic analysis of soft white wheat end-use quality traits in a club by common wheat cross. <i>Journal of Cereal Science</i> , 2017, 76, 148-156.	1.8	33
63	Registration of "Earl"™ Hard White Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 275-280.	0.4	0
64	Registration of "Jasper"™ Soft White Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 263-268.	0.4	16
65	Registration of "Pritchett"™ Soft White Winter Club Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 152-158.	0.4	6
66	Registration of "Sequoia"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 269-274.	0.4	1
67	Single Nucleotide Polymorphisms in the Wheat Genome Associated with Tolerance of Acidic Soils and Aluminum Toxicity. <i>Crop Science</i> , 2016, 56, 1662-1677.	0.8	28
68	Effect of the <i>Gpc-B1</i> Allele in Hard Red Winter Wheat in the US Pacific Northwest. <i>Crop Science</i> , 2016, 56, 1009-1017.	0.8	10
69	Novel QTL for Stripe Rust Resistance on Chromosomes 4A and 6B in Soft White Winter Wheat Cultivars. <i>Agronomy</i> , 2016, 6, 4.	1.3	17
70	Evaluation of agronomic traits and spectral reflectance in Pacific Northwest winter wheat under rain-fed and irrigated conditions. <i>Field Crops Research</i> , 2016, 196, 168-179.	2.3	45
71	Use of spectral reflectance for indirect selection of yield potential and stability in Pacific Northwest winter wheat. <i>Field Crops Research</i> , 2016, 196, 199-206.	2.3	31
72	Quantitative <i>Cephalosporium</i> Stripe Disease Resistance Mapped in the Wheat Genome. <i>Crop Science</i> , 2016, 56, 1586-1601.	0.8	13

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73	Genetic relationships between race-nonspecific and race-specific interactions in the wheat "Pyrenophora tritici-repentis pathosystem. <i>Theoretical and Applied Genetics</i> , 2016, 129, 897-908.	1.8	49
74	UAS imaging-based decision tools for arid winter wheat and irrigated potato production management. <i>International Journal of Remote Sensing</i> , 2016, 37, 125-137.	1.3	34
75	Registration of "Sprinter"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2015, 9, 196-200.	0.4	3
76	The critical water activity from dynamic dewpoint isotherms as an indicator of pre-mix powder stability. <i>Journal of Food Measurement and Characterization</i> , 2015, 9, 479-486.	1.6	11
77	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.	1.9	380
78	Genome-wide association mapping for stripe rust (<i>Puccinia striiformis</i> F. sp. <i>tritici</i>) in US Pacific Northwest winter wheat (<i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2015, 128, 1083-1101.	1.8	133
79	The critical water activity from dynamic dewpoint isotherms as an indicator of crispness in low moisture cookies. <i>Journal of Food Measurement and Characterization</i> , 2015, 9, 463-470.	1.6	13
80	The Case for Water Activity as a Specification for Wheat Tempering and Flour Production. <i>Cereal Foods World</i> , 2015, 60, 166-170.	0.7	15
81	Field-based crop phenotyping: Multispectral aerial imaging for evaluation of winter wheat emergence and spring stand. <i>Computers and Electronics in Agriculture</i> , 2015, 118, 372-379.	3.7	106
82	Freezing Tolerance-Associated Quantitative Trait Loci in the Brundage "Coda Wheat Recombinant Inbred Line Population. <i>Crop Science</i> , 2014, 54, 982-992.	0.8	37
83	Hessian Fly (<i>Mayetiola destructor</i> [Say]) Resistance Identified on Chromosome 1AS in the Spring Wheat (<i>Triticum aestivum</i> L.) Cultivar "Louise"™. <i>Crop Science</i> , 2014, 54, 971-981.	0.8	11
84	Tolerance of Wheat (Poales: Poaceae) Seedlings to Wireworm (Coleoptera: Elateridae). <i>Journal of Economic Entomology</i> , 2014, 107, 833-837.	0.8	9
85	Sources of seed coat colour variation in certification-candidate wheat seed. <i>Seed Science and Technology</i> , 2014, 42, 247-259.	0.6	0
86	A less lethal sodium hydroxide test for determining seed coat colour in wheat. <i>Seed Science and Technology</i> , 2014, 42, 274-278.	0.6	0
87	Mapping Stripe Rust Resistance in a BrundageXCoda Winter Wheat Recombinant Inbred Line Population. <i>PLoS ONE</i> , 2014, 9, e91758.	1.1	46
88	Registration of "Puma"™ Soft White Winter Wheat. <i>Journal of Plant Registrations</i> , 2014, 8, 273-278.	0.4	21
89	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.	3.3	1,065
90	Wheat Cultivar Performance and Stability between No-Till and Conventional Tillage Systems in the Pacific Northwest of the United States. <i>Sustainability</i> , 2013, 5, 882-895.	1.6	10

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91	Registration of "Otto"™ Wheat. <i>Journal of Plant Registrations</i> , 2013, 7, 195-200.	0.4	26
92	Agronomic Performance of Spring Wheat as Related to Planting Date and Photoperiod Response. <i>Crop Science</i> , 2012, 52, 1633-1639.	0.8	18
93	Chromosomes 3B and 4D are associated with several milling and baking quality traits in a soft white spring wheat (<i>Triticum aestivum</i> L.) population. <i>Theoretical and Applied Genetics</i> , 2012, 124, 1079-1096.	1.8	68
94	Genetic mapping of new seed-expressed polyphenol oxidase genes in wheat (<i>Triticum aestivum</i> L.). <i>Theoretical and Applied Genetics</i> , 2012, 124, 1463-1473.	1.8	46
95	Identification of quantitative trait loci (QTL) for resistance to Fusarium crown rot (<i>Fusarium</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 <i>Applied Genetics</i> , 2012, 125, 91-107.	1.8	59
96	Assessment of the effects of the <i>Gpc-B1</i> allele on senescence rate, grain protein concentration and mineral content in hard red spring wheat (<i>Triticum aestivum</i> L.) from the Pacific Northwest Region of the USA. <i>Plant Breeding</i> , 2012, 131, 62-68.	1.0	37
97	Genetic Mapping of Quantitative Trait Loci Associated with Important Agronomic Traits in the Spring Wheat (<i>Triticum aestivum</i> L.) Cross "Louise" – "Penawawa". <i>Crop Science</i> , 2011, 51, 84-95.	0.8	26
98	Adaptability of Wheat Cultivars to a Late-Planted No-Till Fallow Production System. <i>Sustainability</i> , 2011, 3, 1224-1233.	1.6	19
99	Registration of "Whit"™ Wheat. <i>Journal of Plant Registrations</i> , 2009, 3, 279-282.	0.4	3
100	Identifying QTL for high-temperature adult-plant resistance to stripe rust (<i>Puccinia striiformis</i> f. sp.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2009, 119, 1119-1128.	1.8	130
101	Registration of "Kelse"™ Wheat. <i>Journal of Plant Registrations</i> , 2009, 3, 269-272.	0.4	9
102	Identification of a candidate gene for the wheat endopeptidase Ep-D1 locus and two other STS markers linked to the eyespot resistance gene Pch1. <i>Theoretical and Applied Genetics</i> , 2008, 116, 261-270.	1.8	42
103	Karyotype and Ideogram Analyses of Four Wheatgrass Cultivars for Use in Perennial Wheat Breeding. <i>Agroecology and Sustainable Food Systems</i> , 2007, 31, 137-149.	0.9	11
104	The Effect of Imazamox Application Timing and Rate on Imazamox Resistant Wheat Cultivars in the Pacific Northwest. <i>Weed Technology</i> , 2007, 21, 895-899.	0.4	8
105	Registration of the Coda/Brundage wheat recombinant inbred line mapping population. <i>Journal of Plant Registrations</i> , 0, , .	0.4	0
106	Identification of snow mold tolerance QTL in a landrace winter wheat using linkage mapping. <i>Crop Science</i> , 0, , .	0.8	4