

Arron Carter

List of Publications by Year in descending order

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107
papers

3,723
citations

218677
26
h-index

149698
56
g-index

121
all docs

121
docs citations

121
times ranked

3263
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.	2.3	24
2	Prospectus of Genomic Selection and Phenomics in Cereal, Legume and Oilseed Breeding Programs. <i>Frontiers in Genetics</i> , 2022, 12, .	2.3	26
3	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
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.	2.3	6
5	Utilizing Genomic Selection for Wheat Population Development and Improvement. <i>Agronomy</i> , 2022, 12, 522.	3.0	16
6	Genomic Analysis and Delineation of the Tan Spot Susceptibility Locus Tsc1 in Wheat. <i>Frontiers in Plant Science</i> , 2022, 13, 793925.	3.6	4
7	Optimizing Plant Breeding Programs for Genomic Selection. <i>Agronomy</i> , 2022, 12, 714.	3.0	24
8	Genetic architecture of end-use quality traits in soft white winter wheat. <i>BMC Genomics</i> , 2022, 23, .	2.8	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.	1.8	7
10	Registration of the wheat Dâ€šgenome nested association mapping (DNAM) population. <i>Journal of Plant Registrations</i> , 2021, 15, 215-222.	0.5	1
11	Registration of â€šDevoteâ€™™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 121-131.	0.5	2
12	Registration of â€šStingray CL+â€™™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 161-171.	0.5	0
13	Registration of â€šScorpioâ€™™ hard red winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 113-120.	0.5	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.	3.6	50
16	Genome-wide association mapping of the â€šsuper-softâ€™™ kernel texture in white winter wheat. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2547-2559.	3.6	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.	2.5	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	3.7	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.	2.8	37
20	Registration of ‘Castella’™ soft white winter club wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 504-514.	0.5	2
21	Breeding With Major and Minor Genes: Genomic Selection for Quantitative Disease Resistance. <i>Frontiers in Plant Science</i> , 2021, 12, 713667.	3.6	22
22	Environment characterization and genomic prediction for end-use quality traits in soft white winter wheat. <i>Plant Genome</i> , 2021, 14, e20128.	2.8	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.	2.8	56
24	Comparison of genomic selection models for exploring predictive ability of complex traits in breeding programs. <i>Plant Genome</i> , 2021, 14, e20158.	2.8	17
25	Registration of ‘Resilience CL+’™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2021, 15, 196-205.	0.5	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.	3.6	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.	3.0	26
28	Registration of ‘Mela CL+’™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 144-152.	0.5	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.	3.6	26
30	How ‘Madsen’™ has shaped Pacific Northwest wheat and beyond. <i>Journal of Plant Registrations</i> , 2020, 14, 223-233.	0.5	3
31	Utilization of Evolutionary Plant Breeding Increases Stability and Adaptation of Winter Wheat Across Diverse Precipitation Zones. <i>Sustainability</i> , 2020, 12, 9728.	3.2	15
32	Genomic Selection in Winter Wheat Breeding Using a Recommender Approach. <i>Genes</i> , 2020, 11, 779.	2.4	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.	3.5	3
34	Registration of ‘Curiosity CL+’™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 377-387.	0.5	2
35	Evaluation of silica content in winter wheat chaff. <i>Agricultural and Environmental Letters</i> , 2020, 5, e20025.	1.2	4
36	Registration of ‘Purl’™ soft white winter wheat. <i>Journal of Plant Registrations</i> , 2020, 14, 398-405.	0.5	1

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37	Registration of the Louiseâ€Penawawa spring wheat recombinant inbred line mapping population. Journal of Plant Registrations, 2020, 14, 474-480.	0.5	3
38	Genomic Prediction and Indirect Selection for Grain Yield in US Pacific Northwest Winter Wheat Using Spectral Reflectance Indices from High-Throughput Phenotyping. International Journal of Molecular Sciences, 2020, 21, 165.	4.1	29
39	Unraveling complex traits in wheat: Approaches for analyzing genotypeâ€environment interactions in a multienvironment study of falling numbers. Crop Science, 2020, 60, 3013-3026.	1.8	19
40	Gains through selection for grain yield in a winter wheat breeding program. PLoS ONE, 2020, 15, e0221603.	2.5	25
41	Insights into the Genetic Architecture of Phenotypic Stability Traits in Winter Wheat. Agronomy, 2020, 10, 368.	3.0	26
42	Deep Learning for Predicting Complex Traits in Spring Wheat Breeding Program. Frontiers in Plant Science, 2020, 11, 613325.	3.6	64
43	Toward a New Use for Carbon Isotope Discrimination in Wheat Breeding. Agronomy, 2019, 9, 385.	3.0	3
44	Rapid Estimation of Wheat Straw Decomposition Constituents Using Near-Infrared Spectroscopy. Agronomy, 2019, 9, 462.	3.0	7
45	Registration of the Finchâ€Eltan Winter Wheat Recombinant Inbred Line Mapping Population. Journal of Plant Registrations, 2019, 13, 287-293.	0.5	3
46	Selecting winter wheat straw for cellulosic ethanol production in the Pacific Northwest, U.S.A. Biomass and Bioenergy, 2019, 123, 59-69.	5.7	16
47	Genetic Dissection of Snow Mold Tolerance in US Pacific Northwest Winter Wheat Through Genome-Wide Association Study and Genomic Selection. Frontiers in Plant Science, 2019, 10, 1337.	3.6	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. Plant Phenomics, 2019, 2019, 4528719.	5.9	6
50	Isolation of Mutations Conferring Increased Glyphosate Resistance in Spring Wheat. Crop Science, 2018, 58, 84-97.	1.8	4
51	Registration of Two Wheat Germplasm Lines Fixed for Pm58. Journal of Plant Registrations, 2018, 12, 270-273.	0.5	3
52	Spectral Reflectance for Indirect Selection and Genomeâ€Wide Association Analyses of Grain Yield and Drought Tolerance in North American Spring Wheat. Crop Science, 2018, 58, 2289-2301.	1.8	14
53	Using Spectral Reflectance Indices as Proxy Phenotypes for Genomeâ€Wide Association Studies of Yield and Yield Stability in Pacific Northwest Winter Wheat. Crop Science, 2018, 58, 1232-1241.	1.8	17
54	Genomeâ€Wide Association Study of Yield and Component Traits in Pacific Northwest Winter Wheat. Crop Science, 2018, 58, 2315-2330.	1.8	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.	2.8	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.	3.6	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.	3.6	62
58	Genetic Dissection of End-Use Quality Traits in Adapted Soft White Winter Wheat. <i>Frontiers in Plant Science</i> , 2018, 9, 271.	3.6	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.	1.8	29
60	Genome-wide association mapping for eyespot disease in US Pacific Northwest winter wheat. <i>PLoS ONE</i> , 2018, 13, e0194698.	2.5	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.	1.8	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.	3.7	33
63	Registration of "Earl"™ Hard White Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 275-280.	0.5	0
64	Registration of "Jasper"™ Soft White Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 263-268.	0.5	16
65	Registration of "Pritchett"™ Soft White Winter Club Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 152-158.	0.5	6
66	Registration of "Sequoia"™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2017, 11, 269-274.	0.5	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.	1.8	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.	1.8	10
69	Changes in the Moisture Permeability of Grain at the Critical Water Activity from Dynamic Dewpoint Isotherms. <i>Transactions of the ASABE</i> , 2016, 59, 1023-1028.	1.1	1
70	Novel QTL for Stripe Rust Resistance on Chromosomes 4A and 6B in Soft White Winter Wheat Cultivars. <i>Agronomy</i> , 2016, 6, 4.	3.0	17
71	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.	5.1	45
72	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.	5.1	31

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73	Quantitative Cephalosporium Stripe Disease Resistance Mapped in the Wheat Genome. <i>Crop Science</i> , 2016, 56, 1586-1601.	1.8	13
74	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.	3.6	49
75	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.	2.9	34
76	Registration of â€”Sprinterâ€”™ Hard Red Winter Wheat. <i>Journal of Plant Registrations</i> , 2015, 9, 196-200.	0.5	3
77	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.	3.2	11
78	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
79	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.	3.6	133
80	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.	3.2	13
81	The Case for Water Activity as a Specification for Wheat Tempering and Flour Production. <i>Cereal Foods World</i> , 2015, 60, 166-170.	0.2	15
82	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.	7.7	106
83	Freezing Tolerance-Associated Quantitative Trait Loci in the Brundage Ã— Coda Wheat Recombinant Inbred Line Population. <i>Crop Science</i> , 2014, 54, 982-992.	1.8	37
84	Hessian Fly (<i>Mayetiola destructor</i> [Say]) Resistance Identified on Chromosome 1AS in the Spring Wheat (<i>Triticum aestivum</i> L.) Cultivar â€”Louiseâ€”™. <i>Crop Science</i> , 2014, 54, 971-981.	1.8	11
85	Tolerance of Wheat (Poales: Poaceae) Seedlings to Wireworm (Coleoptera: Elateridae). <i>Journal of Economic Entomology</i> , 2014, 107, 833-837.	1.8	9
86	Sources of seed coat colour variation in certification-candidate wheat seed. <i>Seed Science and Technology</i> , 2014, 42, 247-259.	1.4	0
87	A less lethal sodium hydroxide test for determining seed coat colour in wheat. <i>Seed Science and Technology</i> , 2014, 42, 274-278.	1.4	0
88	Mapping Stripe Rust Resistance in a BrundageXCoda Winter Wheat Recombinant Inbred Line Population. <i>PLoS ONE</i> , 2014, 9, e91758.	2.5	46
89	Registration of â€”Pumaâ€”™ Soft White Winter Wheat. <i>Journal of Plant Registrations</i> , 2014, 8, 273-278.	0.5	21
90	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

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91	Wheat Cultivar Performance and Stability between No-Till and Conventional Tillage Systems in the Pacific Northwest of the United States. Sustainability, 2013, 5, 882-895.	3.2	10
92	Registration of â€˜Ottoâ€™ Wheat. Journal of Plant Registrations, 2013, 7, 195-200.	0.5	26
93	Agronomic Performance of Spring Wheat as Related to Planting Date and Photoperiod Response. Crop Science, 2012, 52, 1633-1639.	1.8	18
94	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. Theoretical and Applied Genetics, 2012, 124, 1079-1096.	3.6	68
95	Genetic mapping of new seed-expressed polyphenol oxidase genes in wheat (<i>Triticum aestivum</i> L.). Theoretical and Applied Genetics, 2012, 124, 1463-1473.	3.6	46
96	Identification of quantitative trait loci (QTL) for resistance to Fusarium crown rot (<i>Fusarium</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T Applied Genetics, 2012, 125, 91-107.	3.6	59
97	Assessment of the effects of the <i>Gpcâ€‘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. Plant Breeding, 2012, 131, 62-68.	1.9	37
98	Genetic Mapping of Quantitative Trait Loci Associated with Important Agronomic Traits in the Spring Wheat (<i>Triticum aestivum</i> L.) Cross â€˜Louiseâ€™ Ã— â€˜Penawawaâ€™. Crop Science, 2011, 51, 84-95.	1.8	26
99	Adaptability of Wheat Cultivars to a Late-Planted No-Till Fallow Production System. Sustainability, 2011, 3, 1224-1233.	3.2	19
100	Registration of â€˜Whitâ€™ Wheat. Journal of Plant Registrations, 2009, 3, 279-282.	0.5	3
101	Identifying QTL for high-temperature adult-plant resistance to stripe rust (<i>Puccinia striiformis</i> f. sp.) Tj ETQq1 1 0.784314 rgBT /Overlock 2009, 119, 1119-1128.	3.6	130
102	Registration of â€˜Kelseâ€™ Wheat. Journal of Plant Registrations, 2009, 3, 269-272.	0.5	9
103	Identification of a candidate gene for the wheat endopeptidase Ep-D1 locus and two other STS markers linked to the eyespot resistance gene Pch1. Theoretical and Applied Genetics, 2008, 116, 261-270.	3.6	42
104	Karyotype and Ideogram Analyses of Four Wheatgrass Cultivars for Use in Perennial Wheat Breeding. Agroecology and Sustainable Food Systems, 2007, 31, 137-149.	0.9	11
105	The Effect of Imazamox Application Timing and Rate on Imazamox Resistant Wheat Cultivars in the Pacific Northwest. Weed Technology, 2007, 21, 895-899.	0.9	8
106	Registration of the Coda/Brundage wheat recombinant inbred line mapping population. Journal of Plant Registrations, 0, , .	0.5	0
107	Identification of snow mold tolerance QTL in a landrace winter wheat using linkage mapping. Crop Science, 0, , .	1.8	4