

Armando Caballero

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

7,441
citations

94433

37
h-index

64796

79
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136
all docs

136
docs citations

136
times ranked

9135
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of fitness under different breeding designs in conservation programs. <i>Animal Conservation</i> , 2023, 26, 86-102.	2.9	3
2	Reviewing the consequences of genetic purging on the success of rescue programs. <i>Conservation Genetics</i> , 2022, 23, 1-17.	1.5	19
3	Obituary in memoriam of Professor William G. (Bill) Hill. <i>Heredity</i> , 2022, 128, 77-78.	2.6	0
4	The estimates of effective population size based on linkage disequilibrium are virtually unaffected by natural selection. <i>PLoS Genetics</i> , 2022, 18, e1009764.	3.5	21
5	Prediction of the minimum effective size of a population viable in the long term. <i>Biodiversity and Conservation</i> , 2022, 31, 2763-2780.	2.6	14
6	An evaluation of inbreeding measures using a whole-genome sequenced cattle pedigree. <i>Heredity</i> , 2021, 126, 410-423.	2.6	46
7	On the estimation of inbreeding depression using different measures of inbreeding from molecular markers. <i>Evolutionary Applications</i> , 2021, 14, 416-428.	3.1	35
8	The value of genomic relationship matrices to estimate levels of inbreeding. <i>Genetics Selection Evolution</i> , 2021, 53, 42.	3.0	31
9	Neutral genetic diversity as a useful tool for conservation biology. <i>Conservation Genetics</i> , 2021, 22, 541-545.	1.5	49
10	Highly pleiotropic variants of human traits are enriched in genomic regions with strong background selection. <i>Human Genetics</i> , 2021, 140, 1343-1351.	3.8	3
11	Long-term exhaustion of the inbreeding load in <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2021, 127, 373-383.	2.6	20
12	Estimates of recent and historical effective population size in turbot, seabream, seabass and carp selective breeding programmes. <i>Genetics Selection Evolution</i> , 2021, 53, 85.	3.0	23
13	Mate Choice Contributes to the Maintenance of Shell Color Polymorphism in a Marine Snail via Frequency-Dependent Sexual Selection. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	13
14	The value of targeting recombination as a strategy against coronavirus diseases. <i>Heredity</i> , 2020, 125, 169-172.	2.6	6
15	Recent Demographic History Inferred by High-Resolution Analysis of Linkage Disequilibrium. <i>Molecular Biology and Evolution</i> , 2020, 37, 3642-3653.	8.9	141
16	GWEHS: A Genome-Wide Effect Sizes and Heritability Screener. <i>Genes</i> , 2019, 10, 558.	2.4	2
17	Accelerated inbreeding depression suggests synergistic epistasis for deleterious mutations in <i>Drosophila melanogaster</i> . <i>Heredity</i> , 2019, 123, 709-722.	2.6	13
18	Optimal Management of Genetic Diversity in Subdivided Populations. <i>Frontiers in Genetics</i> , 2019, 10, 843.	2.3	24

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19	Inferring the Nature of Missing Heritability in Human Traits Using Data from the GWAS Catalog. <i>Genetics</i> , 2019, 212, 891-904.	2.9	34
20	Untangling the contribution of genetic and environmental effects to shell differentiation across an environmental cline in a marine snail. <i>Journal of Experimental Marine Biology and Ecology</i> , 2019, 513, 27-34.	1.5	11
21	metapop2: Reimplementation of software for the analysis and management of subdivided populations using gene and allelic diversity. <i>Molecular Ecology Resources</i> , 2019, 19, 1095-1100.	4.8	35
22	Common schizophrenia alleles are enriched in mutation-intolerant genes and in regions under strong background selection. <i>Nature Genetics</i> , 2018, 50, 381-389.	21.4	1,332
23	Population genomics of parallel evolution in gene expression and gene sequence during ecological adaptation. <i>Scientific Reports</i> , 2018, 8, 16147.	3.3	12
24	The risk of forcing inbreeding in conservation programmes: a reply to Theodorou and Couvet. <i>Heredity</i> , 2017, 119, 51-53.	2.6	3
25	Can parallel ecological speciation be detected with phylogenetic analyses?. <i>Molecular Phylogenetics and Evolution</i> , 2017, 116, 149-156.	2.7	11
26	Inbreeding load and purging: implications for the short-term survival and the conservation management of small populations. <i>Heredity</i> , 2017, 118, 177-185.	2.6	75
27	Estimation of genetic purging under competitive conditions. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1856-1870.	2.3	31
28	On the Consequences of Purging and Linkage on Fitness and Genetic Diversity. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 171-181.	1.8	22
29	Joint Prediction of the Effective Population Size and the Rate of Fixation of Deleterious Mutations. <i>Genetics</i> , 2016, 204, 1267-1279.	2.9	13
30	Prediction and estimation of effective population size. <i>Heredity</i> , 2016, 117, 193-206.	2.6	254
31	Allelic diversity for neutral markers retains a higher adaptive potential for quantitative traits than expected heterozygosity. <i>Molecular Ecology</i> , 2015, 24, 4419-4432.	3.9	59
32	The Nature of Genetic Variation for Complex Traits Revealed by GWAS and Regional Heritability Mapping Analyses. <i>Genetics</i> , 2015, 201, 1601-1613.	2.9	58
33	THE ACTION OF STABILIZING SELECTION, MUTATION, AND DRIFT ON EPISTATIC QUANTITATIVE TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 1974-1987.	2.3	11
34	PARALLEL EVOLUTION OF LOCAL ADAPTATION AND REPRODUCTIVE ISOLATION IN THE FACE OF GENE FLOW. <i>Evolution; International Journal of Organic Evolution</i> , 2014, 68, 935-949.	2.3	165
35	Impact of deep coalescence and recombination on the estimation of phylogenetic relationships among species using AFLP markers. <i>Molecular Phylogenetics and Evolution</i> , 2014, 76, 102-109.	2.7	3
36	Genomic distribution of AFLP markers relative to gene locations for different eukaryotic species. <i>BMC Genomics</i> , 2013, 14, 528.	2.8	19

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37	An experimental assessment of artificial within-family selection for fitness in conservation programs. <i>Conservation Genetics</i> , 2013, 14, 1149-1159.	1.5	5
38	Are transcriptional responses to inbreeding a functional response to alleviate inbreeding depression?. <i>Fly</i> , 2013, 7, 8-12.	1.7	9
39	Allelic Diversity and Its Implications for the Rate of Adaptation. <i>Genetics</i> , 2013, 195, 1373-1384.	2.9	91
40	Efficiency of Conservation Management Methods for Subdivided Populations under Local Adaptation. <i>Journal of Heredity</i> , 2013, 104, 554-564.	2.4	5
41	Candidate Transcriptomic Sources of Inbreeding Depression in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2013, 8, e70067.	2.5	5
42	Gene-Expression Changes Caused by Inbreeding Protect Against Inbreeding Depression in <i>Drosophila</i> . <i>Genetics</i> , 2012, 192, 161-172.	2.9	18
43	Dietary effects on shell growth and shape in an intertidal marine snail, <i>Littorina saxatilis</i> . <i>Journal of Molluscan Studies</i> , 2012, 78, 213-216.	1.2	9
44	Analysis and Management of Gene and Allelic Diversity in Subdivided Populations Using the Software Program METAPOP. <i>Methods in Molecular Biology</i> , 2012, 888, 261-275.	0.9	4
45	AFLPM ax : a user-friendly application for computing the optimal number of amplified fragment length polymorphism markers needed in phylogenetic reconstruction. <i>Molecular Ecology Resources</i> , 2012, 12, 566-569.	4.8	3
46	A simulation study on the performance of differentiation-based methods to detect selected loci using linked neutral markers. <i>Journal of Evolutionary Biology</i> , 2012, 25, 1364-1376.	1.7	53
47	The relative contribution of band number to phylogenetic accuracy in AFLP data sets. <i>Journal of Evolutionary Biology</i> , 2011, 24, 2346-2356.	1.7	9
48	An experimental evaluation with <i>Drosophila melanogaster</i> of a novel dynamic system for the management of subdivided populations in conservation programs. <i>Heredity</i> , 2011, 106, 765-774.	2.6	8
49	Lack of early laboratory postzygotic reproductive isolation between two ecotypes of <i>Littorina saxatilis</i> (Mollusca, Gastropoda) showing strong premating sexual isolation. <i>Hydrobiologia</i> , 2011, 675, 13-18.	2.0	8
50	Management of genetic diversity of subdivided populations in conservation programmes. <i>Conservation Genetics</i> , 2010, 11, 409-419.	1.5	117
51	A new method for the partition of allelic diversity within and between subpopulations. <i>Conservation Genetics</i> , 2010, 11, 2219-2229.	1.5	36
52	Predictions of response to selection caused by angling in a wild population of Atlantic salmon (<i>Salmo salar</i>). <i>Freshwater Biology</i> , 2010, 55, 923-930.	2.4	29
53	Comparing three different methods to detect selective loci using dominant markers. <i>Journal of Evolutionary Biology</i> , 2010, 23, 2267-2276.	1.7	177
54	Homoplasy and Distribution of AFLP Fragments: An Analysis In Silico of the Genome of Different Species. <i>Molecular Biology and Evolution</i> , 2010, 27, 1139-1151.	8.9	24

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55	Evaluating the Relationship between Evolutionary Divergence and Phylogenetic Accuracy in AFLP Data Sets. <i>Molecular Biology and Evolution</i> , 2010, 27, 988-1000.	8.9	35
56	The Action of Purifying Selection, Mutation and Drift on Fitness Epistatic Systems. <i>Genetics</i> , 2009, 183, 299-313.	2.9	21
57	METAPOPÂ€”A software for the management and analysis of subdivided populations in conservation programs. <i>Conservation Genetics</i> , 2009, 10, 1097-1099.	1.5	35
58	RELATIVE ROLE OF GENETIC DETERMINATION AND PLASTIC RESPONSE DURING ONTOGENY FOR SHELL-SHAPE TRAITS SUBJECTED TO DIVERSIFYING SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 1356-1363.	2.3	39
59	Molecular characterization of breeds and its use in conservation. <i>Livestock Science</i> , 2009, 120, 174-195.	1.6	140
60	A First Insight into the In Silico Evaluation of the Accuracy of AFLP Markers for Phylogenetic Reconstruction. <i>Lecture Notes in Computer Science</i> , 2009, , 1143-1146.	1.3	0
61	Genetic diversity and effective size of the Atlantic salmon <i>Salmo salar</i> L. inhabiting the River Eo (Spain) following a stock collapse. <i>Journal of Fish Biology</i> , 2008, 72, 1933-1944.	1.6	10
62	Impact of precocious male parr on the effective size of a wild population of Atlantic salmon. <i>Freshwater Biology</i> , 2008, 53, 2375-2384.	2.4	38
63	Preserving Population Allele Frequencies in Ex Situ Conservation Programs. <i>Conservation Biology</i> , 2008, 22, 1277-1287.	4.7	40
64	Genetic impact of the Prestige oil spill in wild populations of a poor dispersal marine snail from intertidal rocky shores. <i>Marine Pollution Bulletin</i> , 2008, 56, 270-281.	5.0	25
65	The relationship between hatching rate and number of embryos of the brood pouch in <i>Littorina saxatilis</i> . <i>Journal of Sea Research</i> , 2008, 60, 223-225.	1.6	10
66	Management of Subdivided Populations in Conservation Programs: Development of a Novel Dynamic System. <i>Genetics</i> , 2008, 179, 683-692.	2.9	108
67	Impact of Amplified Fragment Length Polymorphism Size Homoplasmy on the Estimation of Population Genetic Diversity and the Detection of Selective Loci. <i>Genetics</i> , 2008, 179, 539-554.	2.9	129
68	Genetic discontinuity associated with an environmentally induced barrier to gene exchange in the marine snail <i>Littorina saxatilis</i> . <i>Marine Ecology - Progress Series</i> , 2008, 357, 175-184.	1.9	20
69	PHYLOGENETIC EVIDENCE FOR MULTIPLE SYMPATRIC ECOLOGICAL DIVERSIFICATION IN A MARINE SNAIL. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 1600-1612.	2.3	93
70	Genetic variation for shell traits in a direct-developing marine snail involved in a putative sympatric ecological speciation process. <i>Evolutionary Ecology</i> , 2007, 21, 635-650.	1.2	41
71	The accuracy of a heritability estimator using molecular information. <i>Conservation Genetics</i> , 2007, 8, 1189-1198.	1.5	17
72	Palliating the impact of fixation of a major gene on the genetic variation of artificially selected polygenes. <i>Genetical Research</i> , 2006, 88, 105-118.	0.9	11

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73	Analysis of the biases in the estimation of deleterious mutation parameters from natural populations at mutation–selection balance. <i>Genetical Research</i> , 2006, 88, 177.	0.9	1
74	Genetic variation in restored Atlantic salmon (<i>Salmo salar</i> L.) populations in the Ulla and LÃ©rez rivers, Galicia, Spain. <i>ICES Journal of Marine Science</i> , 2006, 63, 1290-1296.	2.5	16
75	Relaxation of Selection With Equalization of Parental Contributions in Conservation Programs: An Experimental Test With <i>Drosophila melanogaster</i> . <i>Genetics</i> , 2006, 172, 1043-1054.	2.9	28
76	Estimation of the upper limit of the mutation rate and mean heterozygous effect of deleterious mutations. <i>Genetical Research</i> , 2006, 88, 137.	0.9	2
77	The evolutionary forces maintaining a wild polymorphism of <i>Littorina saxatilis</i> : model selection by computer simulations. <i>Journal of Evolutionary Biology</i> , 2005, 18, 191-202.	1.7	22
78	Comparing the estimation properties of different statistics for measuring sexual isolation from mating frequencies. <i>Biological Journal of the Linnean Society</i> , 2005, 85, 307-318.	1.6	46
79	Habitat-dependent Ecotype Micro-distribution at the Mid-shore in Natural Populations of <i>Littorina saxatilis</i> . <i>Hydrobiologia</i> , 2005, 548, 307-311.	2.0	16
80	The Effect of Antagonistic Pleiotropy on the Estimation of the Average Coefficient of Dominance of Deleterious Mutations. <i>Genetics</i> , 2005, 171, 2097-2112.	2.9	11
81	Variation After a Selective Sweep in a Subdivided Population. <i>Genetics</i> , 2005, 169, 475-483.	2.9	76
82	Genetic Differentiation and Estimation of Effective Population Size and Migration Rates in Two Sympatric Ecotypes of the Marine Snail <i>Littorina saxatilis</i> . <i>Journal of Heredity</i> , 2005, 96, 460-464.	2.4	10
83	Characterization and conservation of genetic diversity in subdivided populations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 1367-1378.	4.0	208
84	Quantitative variation as a tool for detecting human-induced impacts on genetic diversity. <i>Biological Conservation</i> , 2005, 124, 1-13.	4.1	25
85	Analysis of the Estimators of the Average Coefficient of Dominance of Deleterious Mutations. <i>Genetics</i> , 2004, 168, 1053-1069.	2.9	14
86	Mutation-selection balance accounting for genetic variation for viability in <i>Drosophila melanogaster</i> deduced from an inbreeding and artificial selection experiment. <i>Journal of Evolutionary Biology</i> , 2004, 17, 528-541.	1.7	22
87	Nonallopatric and parallel origin of local reproductive barriers between two snail ecotypes. <i>Molecular Ecology</i> , 2004, 13, 3415-3424.	3.9	104
88	Managing Individuals' Contributions to Maximize the Allelic Diversity Maintained in Small, Conserved Populations. <i>Conservation Biology</i> , 2004, 18, 1358-1367.	4.7	55
89	ON THE PERSISTENCE AND PERVASIVENESS OF A NEW MUTATION. <i>Evolution; International Journal of Organic Evolution</i> , 2003, 57, 2644-2646.	2.3	46
90	A parallel optimization approach for controlling allele diversity in conservation schemes. <i>Mathematical Biosciences</i> , 2003, 183, 161-173.	1.9	16

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91	ON THE PERSISTENCE AND PERVASIVENESS OF A NEW MUTATION. Evolution; International Journal of Organic Evolution, 2003, 57, 2644.	2.3	7
92	The mutational rate of Drosophila viability decline: tinkering with old data. Genetical Research, 2002, 80, 99-105.	0.9	15
93	Analysis of genetic diversity for the management of conserved subdivided populations. Conservation Genetics, 2002, 3, 289-299.	1.5	299
94	A comparison of management strategies for conservation with regard to population fitness. Conservation Genetics, 2001, 2, 121-131.	1.5	39
95	Accumulation of deleterious mutations and equalization of parental contributions in the conservation of genetic resources. Heredity, 2001, 86, 480-488.	2.6	30
96	Interrelations between effective population size and other pedigree tools for the management of conserved populations. Genetical Research, 2000, 75, 331-343.	0.9	362
97	ESTIMATING SEXUAL SELECTION AND SEXUAL ISOLATION EFFECTS FROM MATING FREQUENCIES. Evolution; International Journal of Organic Evolution, 2000, 54, 30-36.	2.3	126
98	Application of Reproduction Technologies to the Conservation of Genetic Resources. Conservation Biology, 2000, 14, 1831-1836.	4.7	7
99	ESTIMATING SEXUAL SELECTION AND SEXUAL ISOLATION EFFECTS FROM MATING FREQUENCIES. Evolution; International Journal of Organic Evolution, 2000, 54, 30.	2.3	48
100	Effect of linkage on the control of inbreeding in selection programmes. Genetics Selection Evolution, 2000, 32, 249-64.	3.0	13
101	Application of Reproduction Technologies to the Conservation of Genetic Resources. Conservation Biology, 2000, 14, 1831-1836.	4.7	4
102	Developments in predicting the effective size of subdivided populations. Heredity, 1999, 82, 212-226.	2.6	180
103	Properties of spontaneous mutations affecting quantitative traits. Genetical Research, 1999, 74, 341-350.	0.9	118
104	Inferences on genome-wide deleterious mutation rates in inbred populations of Drosophila and mice. Genetica, 1998, 102/103, 229-239.	1.1	22
105	Population genetics: Surviving under mutation pressure. Current Biology, 1998, 8, R235-R237.	3.9	31
106	The effect of linkage disequilibrium and deviation from Hardy-Weinberg proportions on the changes in genetic variance with bottlenecking. Heredity, 1998, 81, 174-186.	2.6	1
107	Effective Size and Polymorphism of Linked Neutral Loci in Populations Under Directional Selection. Genetics, 1998, 149, 2105-2117.	2.9	94
108	Bottleneck Effect on Genetic Variance: A Theoretical Investigation of the Role of Dominance. Genetics, 1998, 150, 435-447.	2.9	70

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109	Inferences on genome-wide deleterious mutation rates in inbred populations of Drosophila and mice. Contemporary Issues in Genetics and Evolution, 1998, , 229-239.	0.9	1
110	Genomic mutation rates for lifetime reproductive output and lifespan in <i>Caenorhabditis elegans</i> . Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3823-3827.	7.1	256
111	Average Dominance for Polygenes: Drawbacks of Regression Estimates. Genetics, 1997, 147, 1487-1490.	2.9	29
112	Systems of mating to reduce inbreeding in selected populations. Animal Science, 1996, 62, 431-442.	1.3	93
113	Survival rates of mutant genes under artificial selection using individual and family information. Journal of Genetics, 1996, 75, 63-80.	0.7	11
114	A Note on the Change in Gene Frequency of a Selected Allele in Partial Full-Sib Mating Populations. Genetics, 1996, 142, 649-650.	2.9	3
115	Selection Response in Finite Populations. Genetics, 1996, 144, 1961-1974.	2.9	53
116	Accumulation of mutations affecting body weight in inbred mouse lines. Genetical Research, 1995, 65, 145-149.	0.9	24
117	Response to selection from new mutation and effective size of partially inbred populations. II. Experiments with <i>Drosophila melanogaster</i> . Genetical Research, 1995, 66, 227-240.	0.9	27
118	Response to selection from new mutation and effective size of partially inbred populations. I. Theoretical results. Genetical Research, 1995, 66, 213-225.	0.9	36
119	A note on using biased parameter values and non-random mating to reduce rates of inbreeding in selection programmes. Animal Science, 1994, 59, 465-468.	1.3	37
120	Developments in the prediction of effective population size. Heredity, 1994, 73, 657-679.	2.6	528
121	A Note on the Inbreeding Effective Population Size. Evolution; International Journal of Organic Evolution, 1992, 46, 1969.	2.3	8
122	The time of detection of recessive visible genes with non-random mating. Genetical Research, 1992, 60, 201-207.	0.9	7
123	A NOTE ON THE INBREEDING EFFECTIVE POPULATION SIZE. Evolution; International Journal of Organic Evolution, 1992, 46, 1969-1972.	2.3	7
124	Strategies for increasing fixation probabilities of recessive mutations. Genetical Research, 1991, 58, 129-138.	0.9	40
125	The cumulative effect of artificial selection on the reduction of population effective size. Journal of Animal Breeding and Genetics, 1990, 107, 180-187.	2.0	3
126	Efficiency in prediction of response in selection index experiments. Journal of Animal Breeding and Genetics, 1989, 106, 187-194.	2.0	6

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127	An experimental evaluation of the usefulness of secondary traits in index selection, using <i>Drosophila melanogaster</i> . Journal of Animal Breeding and Genetics, 1987, 104, 175-179.	2.0	5
128	Looking for a successful translocation: the case of <i>Astragalus edulis</i> . Mediterranean Botany, 0, 42, e68048.	0.9	2