

Carlos Alonso-Alvarez

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

5,085
citations

101543

36
h-index

91884

69
g-index

88
all docs

88
docs citations

88
times ranked

3748
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative stress as a life-history constraint: the role of reactive oxygen species in shaping phenotypes from conception to death. <i>Functional Ecology</i> , 2010, 24, 984-996.	3.6	450
2	Increased susceptibility to oxidative stress as a proximate cost of reproduction. <i>Ecology Letters</i> , 2004, 7, 363-368.	6.4	357
3	Testosterone and oxidative stress: the oxidation handicap hypothesis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 819-825.	2.6	295
4	An Experimental Test of the Dose-Dependent Effect of Carotenoids and Immune Activation on Sexual Signals and Antioxidant Activity. <i>American Naturalist</i> , 2004, 164, 651-659.	2.1	290
5	Effects of experimental food restriction and body-mass changes on the avian T-cell-mediated immune response. <i>Canadian Journal of Zoology</i> , 2001, 79, 101-105.	1.0	217
6	Increased susceptibility to oxidative damage as a cost of accelerated somatic growth in zebra finches. <i>Functional Ecology</i> , 2007, 21, 873-879.	3.6	195
7	AN EXPERIMENTAL MANIPULATION OF LIFE-HISTORY TRAJECTORIES AND RESISTANCE TO OXIDATIVE STRESS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1913-1924.	2.3	192
8	The oxidation handicap hypothesis and the carotenoid allocation trade-off. <i>Journal of Evolutionary Biology</i> , 2008, 21, 1789-1797.	1.7	133
9	An Intracellular Antioxidant Determines the Expression of a Melanin-Based Signal in a Bird. <i>PLoS ONE</i> , 2008, 3, e3335.	2.5	131
10	The expression of melanin-based plumage is separately modulated by exogenous oxidative stress and a melanocortin. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3089-3097.	2.6	121
11	Ultraviolet reflectance affects male-male interactions in the blue tit (<i>Parus caeruleus ultramarinus</i>). <i>Behavioral Ecology</i> , 2004, 15, 805-809.	2.2	120
12	Carotenoids modulate the trade-off between egg production and resistance to oxidative stress in zebra finches. <i>Oecologia</i> , 2006, 147, 576-584.	2.0	117
13	Differential body condition regulation by males and females in response to experimental manipulations of brood size and parental effort in the blue-footed booby. <i>Journal of Animal Ecology</i> , 2003, 72, 846-856.	2.8	105
14	Benefits and costs of parental care. , 2012, , 40-61.		100
15	A Biochemical Study of Fasting, Subfeeding, and Recovery Processes in Yellow-Legged Gulls. <i>Physiological and Biochemical Zoology</i> , 2001, 74, 703-713.	1.5	99
16	Manipulation of primary sex-ratio: an updated review. <i>Avian Biology Research</i> , 2006, 17, 1-20.	1.3	95
17	Avoiding bad genes: oxidatively damaged DNA in germ line and mate choice. <i>BioEssays</i> , 2008, 30, 1212-1219.	2.5	85
18	Cell-mediated immune activation rapidly decreases plasma carotenoids but does not affect oxidative stress in red-legged partridges (<i>Alectoris rufa</i>). <i>Journal of Experimental Biology</i> , 2008, 211, 2155-2161.	1.7	83

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19	Sublethal toxicity of the Prestige oil spill on yellow-legged gulls. <i>Environment International</i> , 2007, 33, 773-781.	10.0	79
20	Measuring Oxidative Stress: The Confounding Effect of Lipid Concentration in Measures of Lipid Peroxidation. <i>Physiological and Biochemical Zoology</i> , 2015, 88, 345-351.	1.5	77
21	Age and Breeding Effort as Sources of Individual Variability in Oxidative Stress Markers in a Bird Species. <i>Physiological and Biochemical Zoology</i> , 2010, 83, 110-118.	1.5	75
22	Effects of acute exposure to heavy fuel oil from the Prestige spill on a seabird. <i>Aquatic Toxicology</i> , 2007, 84, 103-110.	4.0	73
23	Free Radical Exposure Creates Paler Carotenoid-Based Ornaments: A Possible Interaction in the Expression of Black and Red Traits. <i>PLoS ONE</i> , 2011, 6, e19403.	2.5	66
24	The importance of visual cues for nocturnal species: eagle owls signal by badge brightness. <i>Behavioral Ecology</i> , 2007, 18, 143-147.	2.2	64
25	Variation in Reproductive Success Across Captive Populations: Methodological Differences, Potential Biases and Opportunities. <i>Ethology</i> , 2017, 123, 1-29.	1.1	60
26	Testosterone-mediated trade-offs in the old age: a new approach to the immunocompetence handicap and carotenoid-based sexual signalling. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2093-2101.	2.6	57
27	An experimental manipulation of life-history trajectories and resistance to oxidative stress. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1913-24.	2.3	53
28	The plasmatic index of body condition in Yellow-legged Gulls <i>Larus cachinnans</i> : a food-controlled experiment. <i>Ibis</i> , 2002, 144, 147-149.	1.9	50
29	Covariation in Oxidative Stress Markers in the Blood of Nestling and Adult Birds. <i>Physiological and Biochemical Zoology</i> , 2014, 87, 353-362.	1.5	49
30	Thrifty development: early-life diet restriction reduces oxidative damage during later growth. <i>Functional Ecology</i> , 2011, 25, 1144-1153.	3.6	47
31	Female body condition and brood sex ratio in Yellow-legged Gulls <i>Larus cachinnans</i> . <i>Ibis</i> , 2003, 145, 220-226.	1.9	46
32	Adjustment of female reproductive investment according to male carotenoid-based ornamentation in a gallinaceous bird. <i>Behavioral Ecology and Sociobiology</i> , 2012, 66, 731-742.	1.4	45
33	Carotenoid-based coloration predicts resistance to oxidative damage during immune challenge. <i>Journal of Experimental Biology</i> , 2010, 213, 1685-1690.	1.7	44
34	Owls and rabbits: predation against substandard individuals of an easy prey. <i>Journal of Avian Biology</i> , 2008, 39, 215-221.	1.2	42
35	Effects of experimental food restriction and body-mass changes on the avian T-cell-mediated immune response. <i>Canadian Journal of Zoology</i> , 2001, 79, 101-105.	1.0	42
36	Effects of testosterone implants on pair behaviour during incubation in the Yellow-legged Gull <i>Larus cachinnans</i> . <i>Journal of Avian Biology</i> , 2001, 32, 326-332.	1.2	38

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37	Energetic reserves, leptin and testosterone: a refinement of the immunocompetence handicap hypothesis. <i>Biology Letters</i> , 2007, 3, 271-274.	2.3	37
38	Identification of carotenoid pigments and their fatty acid esters in an avian integument combining HPLC-DAD and LC-MS analyses. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 341-348.	2.3	37
39	Age-dependent changes in plasma biochemistry of yellow-legged gulls (<i>Larus cachinnans</i>). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2005, 140, 512-518.	1.8	36
40	The Level of an Intracellular Antioxidant during Development Determines the Adult Phenotype in a Bird Species: A Potential Organizer Role for Glutathione. <i>American Naturalist</i> , 2015, 185, 390-405.	2.1	36
41	Yolk testosterone reduces oxidative damages during postnatal development. <i>Biology Letters</i> , 2011, 7, 93-95.	2.3	35
42	Changes in Plasma Biochemistry and Body Mass During Incubation in the Yellow-legged Gull. <i>Waterbirds</i> , 2002, 25, 253.	0.3	33
43	The Oxidative Cost of Reproduction: Theoretical Questions and Alternative Mechanisms. <i>BioScience</i> , 2017, 67, 258-270.	4.9	33
44	Low-quality birds do not display high-quality signals: The cysteine-pheomelanin mechanism of honesty. <i>Evolution; International Journal of Organic Evolution</i> , 2015, 69, 26-38.	2.3	32
45	Nest-dwelling ectoparasites reduce antioxidant defences in females and nestlings of a passerine: a field experiment. <i>Oecologia</i> , 2015, 179, 29-41.	2.0	32
46	Antioxidant Machinery Differs between Melanic and Light Nestlings of Two Polymorphic Raptors. <i>PLoS ONE</i> , 2010, 5, e13369.	2.5	31
47	Free and Esterified Carotenoids in Ornaments of an Avian Species: The Relationship to Color Expression and Sources of Variability. <i>Physiological and Biochemical Zoology</i> , 2013, 86, 483-498.	1.5	30
48	GENETIC CORRELATION BETWEEN RESISTANCE TO OXIDATIVE STRESS AND REPRODUCTIVE LIFE SPAN IN A BIRD SPECIES. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 852-857.	2.3	29
49	Specific carotenoid pigments in the diet and a bit of oxidative stress in the recipe for producing red carotenoid-based signals. <i>PeerJ</i> , 2016, 4, e2237.	2.0	29
50	The Importance of Visual Cues for Nocturnal Species: Eagle Owl Fledglings Signal with White Mouth Feathers. <i>Ethology</i> , 2007, 113, 934-943.	1.1	27
51	Families on the spot: sexual signals influence parent-offspring interactions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2477-2483.	2.6	27
52	Mitochondria-targeted molecules determine the redness of the zebra finch bill. <i>Biology Letters</i> , 2017, 13, 20170455.	2.3	25
53	Yolk testosterone shapes the expression of a melanin-based signal in great tits: an antioxidant-mediated mechanism?. <i>Journal of Experimental Biology</i> , 2010, 213, 3127-3130.	1.7	24
54	Brightness variability in the white badge of the eagle owl <i>Bubo bubo</i> . <i>Journal of Avian Biology</i> , 2006, 37, 110-116.	1.2	23

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55	The oxidative cost of reproduction depends on early development oxidative stress and sex in a bird species. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160842.	2.6	22
56	Testing the shared pathway hypothesis in the carotenoid-based coloration of red crossbills. <i>Evolution; International Journal of Organic Evolution</i> , 2020, 74, 2348-2364.	2.3	22
57	Relationships between Hair Melanization, Glutathione Levels, and Senescence in Wild Boars. <i>Physiological and Biochemical Zoology</i> , 2012, 85, 332-347.	1.5	21
58	Effect of testosterone on the behaviour of Yellow-legged gulls (<i>Larus cachinnans</i>) in a high-density colony during the courtship period. <i>Ethology Ecology and Evolution</i> , 2001, 13, 341-349.	1.4	19
59	Adaptive downregulation of pheomelanin-related <i>Slc7a11</i> gene expression by environmentally induced oxidative stress. <i>Molecular Ecology</i> , 2017, 26, 849-858.	3.9	19
60	Sex-specific transgenerational effects of early developmental conditions in a passerine. <i>Biological Journal of the Linnean Society</i> , 0, 91, 469-474.	1.6	18
61	Accumulation of dietary carotenoids, retinoids and tocopherol in the internal tissues of a bird: a hypothesis for the cost of producing colored ornaments. <i>Oecologia</i> , 2015, 177, 259-271.	2.0	18
62	Plasma chemistry of the chinstrap penguin <i>Pygoscelis antarctica</i> during fasting periods: a case of poor adaptation to food deprivation?. <i>Polar Biology</i> , 2003, 26, 14-19.	1.2	17
63	Astaxanthin and papilioerythrinone in the skin of birds: a chromatic convergence of two metabolic routes with different precursors?. <i>Die Naturwissenschaften</i> , 2014, 101, 407-416.	1.6	17
64	Carotenoid-based coloration predicts both longevity and lifetime fecundity in male birds, but testosterone disrupts signal reliability. <i>PLoS ONE</i> , 2019, 14, e0221436.	2.5	15
65	Brightness variability in the white badge of the eagle owl <i>Bubo bubo</i> . <i>Journal of Avian Biology</i> , 2006, 37, 110-116.	1.2	14
66	Oxidative Stress Experienced during Early Development Influences the Offspring Phenotype. <i>American Naturalist</i> , 2020, 196, 704-716.	2.1	14
67	AN EXPERIMENTAL MANIPULATION OF LIFE-HISTORY TRAJECTORIES AND RESISTANCE TO OXIDATIVE STRESS. <i>Evolution; International Journal of Organic Evolution</i> , 2006, 60, 1913.	2.3	13
68	Individual quality as sensitivity to cysteine availability in a melanin-based honest signalling system. <i>Journal of Experimental Biology</i> , 2017, 220, 2825-2833.	1.7	13
69	Repeated Sampling but Not Sampling Hour Affects Plasma Carotenoid Levels. <i>Physiological and Biochemical Zoology</i> , 2007, 80, 250-254.	1.5	12
70	Testing the carotenoid-based sexual signalling mechanism by altering <i>CYP2J19</i> gene expression and colour in a bird species. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201067.	2.6	12
71	Variation in plasma biochemical parameters in captive adult red-legged partridges (<i>Alectoris rufa</i>) during daylight hours. <i>European Journal of Wildlife Research</i> , 2008, 54, 21-26.	1.4	9
72	The effects of testosterone manipulation on the body condition of captive male yellow-legged gulls. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2002, 131, 293-303.	1.8	8

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73	Black bib size is associated with feather content of pheomelanin in male house sparrows. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 1159-1161.	3.3	7
74	Buthionine sulfoximine diverts the melanogenesis pathway toward the production of more soluble and degradable pigments. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 2150-2154.	2.2	7
75	An age-related decline in the expression of a red carotenoid-based ornament in wild birds. <i>Evolution; International Journal of Organic Evolution</i> , 2021, 75, 3142-3153.	2.3	7
76	Early development conditions and the oxidative cost of social context in adulthood: an experimental study in birds. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	6
77	Dietary canthaxanthin reduces xanthophyll uptake and red coloration in adult red-legged partridges. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	6
78	Life-long testosterone and antiandrogen treatments affect the survival and reproduction of captive male red-legged partridges (<i>Alectoris rufa</i>). <i>Behavioral Ecology and Sociobiology</i> , 2020, 74, 1.	1.4	6
79	Natural radioactivity can explain clinal variation in the expression of melanin-based traits. <i>Evolutionary Ecology</i> , 2011, 25, 1197-1203.	1.2	5
80	Contrasted effects of an oxidative challenge and α -melanocyte-stimulating hormone on cellular immune responsiveness: an experiment with red-legged partridges <i>Alectoris rufa</i> . <i>Oecologia</i> , 2012, 169, 385-394.	2.0	4
81	The fractal dimension of a conspicuous ornament varies with mating status and shows assortative mating in wild red-legged partridges (<i>Alectoris rufa</i>). <i>Die Naturwissenschaften</i> , 2018, 105, 45.	1.6	3
82	Time and habitat heterogeneity constrain the opportunity for sexual selection during mating. <i>Ethology Ecology and Evolution</i> , 2003, 15, 295-298.	1.4	2
83	Carbon $\delta^{13}C$ Isotopic Marker Values Correlate with Carotenoid-Based Bill Colouration in Adult Yellow-Legged Gulls <i>Larus michahellis</i> . <i>Ardeola</i> , 2020, 67, 325.	0.7	0