Matthew B Toomey

List of Publications by Year
in descending order

40 papers	3,320 citations	257450 24 h-index	315739 38 g-index
46 all docs	46 docs citations	46 times ranked	6688 citing authors

#	Article	IF	Citations
1	No evidence that carotenoid pigments boost either immune or antioxidant defenses in a songbird. Nature Communications, 2018, 9, 491.	12.8	1,639
2	Genetic Basis for Red Coloration in Birds. Current Biology, 2016, 26, 1427-1434.	3.9	192
3	Cyp27c1 Red-Shifts the Spectral Sensitivity of Photoreceptors by Converting Vitamin A1 into A2. Current Biology, 2015, 25, 3048-3057.	3.9	135
4	Thyroid hormone regulates distinct paths to maturation in pigment cell lineages. ELife, 2019, 8, .	6.0	106
5	High-density lipoprotein receptor SCARB1 is required for carotenoid coloration in birds. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5219-5224.	7.1	104
6	A genetic mechanism for sexual dichromatism in birds. Science, 2020, 368, 1270-1274.	12.6	71
7	Carotenoid Accumulation in the Tissues of Zebra Finches: Predictors of Integumentary Pigmentation and Implications for Carotenoid Allocation Strategies. Physiological and Biochemical Zoology, 2010, 83, 97-109.	1.5	70
8	Factors affecting the movement of adult zebra mussels (Dreissena polymorpha). Journal of the North American Benthological Society, 2002, 21, 468-475.	3.1	68
9	How many color metrics do we need? Evaluating how different color-scoring procedures explain carotenoid pigment content in avian bare-part and plumage ornaments. Behavioral Ecology and Sociobiology, 2011, 65, 401-413.	1.4	68
10	Iridescence: views from many angles. Journal of the Royal Society Interface, 2009, 6, S107-13.	3.4	55
11	A description of unique fluorescent yellow pigments in penguin feathers. Pigment Cell & Melanoma Research, 2007, 20, 301-304.	3.6	53
12	Evolution, Development and Function of Vertebrate Cone Oil Droplets. Frontiers in Neural Circuits, 2017, 11, 97.	2.8	51
13	A complex carotenoid palette tunes avian colour vision. Journal of the Royal Society Interface, 2015, 12, 20150563.	3.4	49
14	Immune-system activation depletes retinal carotenoids in house finches (<i>Carpodacus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (	1.7	47
15	Complementary shifts in photoreceptor spectral tuning unlock the full adaptive potential of ultraviolet vision in birds. ELife, 2016, 5, .	6.0	45
16	Mate choice for a male carotenoid-based ornament is linked to female dietary carotenoid intake and accumulation. BMC Evolutionary Biology, 2012, 12, 3.	3.2	41
17	Effects of carotenoid supplementation and oxidative challenges on physiological parameters and carotenoid-based coloration in an urbanization context. Behavioral Ecology and Sociobiology, 2015, 69, 957-970.	1.4	40
18	A non-coding region near Follistatin controls head colour polymorphism in the Gouldian finch. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181788.	2.6	39

#	Article	IF	Citations
19	Modified Saponification and HPLC Methods for Analyzing Carotenoids from the Retina of Quail: Implications for Its Use as a Nonprimate Model Species. , 2007, 48, 3976.		38
20	Ontogenetic immune challenges shape adult personality in mallard ducks. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 326-333.	2.6	38
21	Specialized photoreceptor composition in the raptor fovea. Journal of Comparative Neurology, 2017, 525, 2152-2163.	1.6	38
22	Seasonal, sexual, and quality related variation in retinal carotenoid accumulation in the house finch (Carpodacus mexicanus). Functional Ecology, 2009, 23, 321-329.	3.6	37
23	Optics of cone photoreceptors in the chicken (Gallus gallus domesticus). Journal of the Royal Society Interface, 2015, 12, 20150591.	3.4	37
24	Human cytochrome P450 27C1 catalyzes 3,4â€desaturation of retinoids. FEBS Letters, 2016, 590, 1304-1312.	2.8	30
25	Genetic Basis of De Novo Appearance of Carotenoid Ornamentation in Bare Parts of Canaries. Molecular Biology and Evolution, 2020, 37, 1317-1328.	8.9	30
26	The effects of dietary carotenoid intake on carotenoid accumulation in the retina of a wild bird, the house finch (Carpodacus mexicanus). Archives of Biochemistry and Biophysics, 2010, 504, 161-168.	3.0	26
27	Cambrian origin of the CYP27C1-mediated vitamin A ₁ -to-A ₂ switch, a key mechanism of vertebrate sensory plasticity. Royal Society Open Science, 2017, 4, 170362.	2.4	25
28	The Effects of Dietary Carotenoid Supplementation and Retinal Carotenoid Accumulation on Vision-Mediated Foraging in the House Finch. PLoS ONE, 2011, 6, e21653.	2.5	21
29	Development and genetics of red coloration in the zebrafish relative Danio albolineatus. ELife, 2021, 10, .	6.0	21
30	A novel method for quantifying the glossiness of animals. Behavioral Ecology and Sociobiology, 2010, 64, 1047-1055.	1.4	20
31	Testing the resource tradeoff hypothesis for carotenoid-based signal honesty using genetic variants of the domestic canary. Journal of Experimental Biology, 2019, 222, .	1.7	18
32	Can House Finches (Carpodacus mexicanus) use non-visual cues to discriminate the carotenoid content of foods?. Journal of Ornithology, 2012, 153, 1017-1023.	1.1	16
33	Food Color Preferences of Molting House Finches (Carpodacus mexicanus) in Relation to Sex and Plumage Coloration. Ethology, 2009, 115, 1066-1073.	1.1	10
34	Expression of and choice for condition-dependent carotenoid-based color in an urbanizing context. Behavioral Ecology, 0, , .	2.2	10
35	The Effects of Social Context on the Food-Caching Behavior of Florida Scrub-Jays (Aphelocoma) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	6
36	Ketocarotenoid circulation, but not retinal carotenoid accumulation, is linked to eye disease status in a wild songbird. Archives of Biochemistry and Biophysics, 2013, 539, 156-162.	3.0	6

#	Article	IF	Citations
37	Food color preferences against a dark, textured background vary in relation to sex and age in house finches (Carpodacus mexicanus). Behaviour, 2012, 149, 51-65.	0.8	4
38	The effects of sun exposure on carotenoid accumulation and oxidative stress in the retina of the House Finch (Haemorhous mexicanus). Avian Research, 2016, 7, .	1.2	4
39	Avian color expression and perception: is there a carotenoid link?. Journal of Experimental Biology, 2021, 224, .	1.7	3
40	Methods for extracting and analyzing carotenoids from bird feathers. Methods in Enzymology, 2022, , .	1.0	2