Martin Stevens

List of Publications by Year
in descending order

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150 papers	9,678 citations	46918 47 h-index	46693 89 g-index
157 all docs	157 docs citations	157 times ranked	5270 citing authors

#	Article	IF	Citations
1	Animal camouflage: current issues and new perspectives. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 423-427.	1.8	574
2	Using digital photography to study animal coloration. Biological Journal of the Linnean Society, 2007, 90, 211-237.	0.7	542
3	The biology of color. Science, 2017, 357, .	6.0	509
4	Disruptive coloration and background pattern matching. Nature, 2005, 434, 72-74.	13.7	462
5	Image calibration and analysis toolbox â€“ a free software suite for objectively measuring reflectance, colour and pattern. Methods in Ecology and Evolution, 2015, 6, 1320-1331.	2.2	355
6	Visual modeling shows that avian host parents use multiple visual cues in rejecting parasitic eggs. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8672-8676.	3.3	251
7	Defining disruptive coloration and distinguishing its functions. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 481-488.	1.8	241
8	The role of eyespots as anti-predator mechanisms, principally demonstrated in the Lepidoptera. Biological Reviews, 2005, 80, 573-588.	4.7	232
9	Predator perception and the interrelation between different forms of protective coloration. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 1457-1464.	1.2	216
10	Pattern mimicry of host eggs by the common cuckoo, as seen through a bird's eye. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1387-1393.	1.2	214
11	Disruptive coloration, crypsis and edge detection in early visual processing. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2141-2147.	1.2	210
12	Linking the evolution and form of warning coloration in nature. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 417-426.	1.2	208
13	AVIAN VISION AND THE EVOLUTION OF EGG COLOR MIMICRY IN THE COMMON CUCKOO. Evolution; International Journal of Organic Evolution, 2011, 65, 2004-2013.	1.1	175
14	Disruptive contrast in animal camouflage. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2433-2438.	1.2	166
15	Disruptive ecological selection on a mating cue. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4907-4913.	1.2	143
16	Studying Primate Color: Towards Visual System-dependent Methods. International Journal of Primatology, 2009, 30, 893-917.	0.9	141
17	Camouflage through colour change: mechanisms, adaptive value and ecological significance. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160342.	1.8	139
18	Camouflage predicts survival in ground-nesting birds. Scientific Reports, 2016, 6, 19966.	1.6	119

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19	How to evade a coevolving brood parasite: egg discrimination versus egg variability as host defences. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3566-3573.	1.2	118
20	Dazzle coloration and prey movement. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2639-2643.	1.2	115
21	Conspicuousness, not eye mimicry, makes "eyespots" effective antipredator signals. Behavioral Ecology, 2008, 19, 525-531.	1.0	113
22	Visual mimicry of host nestlings by cuckoos. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2455-2463.	1.2	111
23	Host-Parasite Arms Races and Rapid Changes in Bird Egg Appearance. American Naturalist, 2012, 179, 633-648.	1.0	103
24	Motion dazzle and camouflage as distinct anti-predator defenses. BMC Biology, 2011, 9, 81.	1.7	97
25	Are dark cuckoo eggs cryptic in host nests?. Animal Behaviour, 2009, 78, 461-468.	0.8	96
26	Color signal information content and the eye of the beholder: a case study in the rhesus macaque. Behavioral Ecology, 2010, 21, 739-746.	1.0	95
27	The key role of behaviour in animal camouflage. Biological Reviews, 2019, 94, 116-134.	4.7	94
28	Evolution of correlated complexity in the radically different courtship signals of birds-of-paradise. PLoS Biology, 2018, 16, e2006962.	2.6	83
29	Quantifying camouflage: how to predict detectability from appearance. BMC Evolutionary Biology, 2017, 17, 7.	3.2	74
30	Field experiments on the effectiveness of â€˜eyespotsâ€™ as predator deterrents. Animal Behaviour, 2007, 74, 1215-1227.	0.8	73
31	Color Change, Phenotypic Plasticity, and Camouflage. Frontiers in Ecology and Evolution, 2016, 4, .	1.1	72
32	Direction and strength of selection by predators for the color of the aposematic wood tiger moth. Behavioral Ecology, 2011, 22, 580-587.	1.0	71
33	Familiarity affects the assessment of female facial signals of fertility by free-ranging male rhesus macaques. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3452-3458.	1.2	71
34	Repeated targeting of the same hosts by a brood parasite compromises host egg rejection. Nature Communications, 2013, 4, 2475.	5.8	71
35	Color change and camouflage in juvenile shore crabs Carcinus maenas. Frontiers in Ecology and Evolution, 2014, 2, .	1.1	68
36	Colour change and camouflage in the horned ghost crabOcypode ceratophthalmus. Biological Journal of the Linnean Society, 2013, 109, 257-270.	0.7	67

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37	Animal camouflage: compromise or specialize in a 2 patch-type environment?. Behavioral Ecology, 2007, 18, 769-775.	1.0	66
38	The ecology of multiple colour defences. Evolutionary Ecology, 2016, 30, 797-809.	0.5	66
39	Camouflage through behavior in moths: the role of background matching and disruptive coloration. Behavioral Ecology, 2015, 26, 45-54.	1.0	65
40	Character displacement of Cercopithecini primate visual signals. Nature Communications, 2014, 5, 4266.	5.8	64
41	Discrete colour polymorphism in the tawny dragon lizard (<scp>C</scp>tenophorus decresii) and differences in signal conspicuousness among morphs. Journal of Evolutionary Biology, 2013, 26, 1035-1046.	0.8	63
42	Countershading enhances cryptic protection: an experiment with wild birds and artificial prey. Animal Behaviour, 2007, 74, 1249-1258.	0.8	61
43	Improvement of individual camouflage through background choice in ground-nesting birds. Nature Ecology and Evolution, 2017, 1, 1325-1333.	3.4	58
44	Background matching and disruptive coloration as habitat-specific strategies for camouflage. Scientific Reports, 2019, 9, 7840.	1.6	57
45	Outline and surface disruption in animal camouflage. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 781-786.	1.2	56
46	Crypsis through background matching. , 0, , 17-33.		56
47	Signal honesty and predation risk among a closely related group of aposematic species. Scientific Reports, 2015, 5, 11021.	1.6	56
48	Defeating Crypsis: Detection and Learning of Camouflage Strategies. PLoS ONE, 2013, 8, e73733.	1.1	54
49	Microhabitat choice in island lizards enhances camouflage against avian predators. Scientific Reports, 2016, 6, 19815.	1.6	54
50	Wall lizards display conspicuous signals to conspecifics and reduce detection by avian predators. Behavioral Ecology, 2014, 25, 1325-1337.	1.0	51
51	Hidden Messages: Are Ultraviolet Signals a Special Channel in Avian Communication?. BioScience, 2007, 57, 501-507.	2.2	48
52	The anti-predator function of â€˜eyespotsâ€™ on camouflaged and conspicuous prey. Behavioral Ecology and Sociobiology, 2008, 62, 1787-1793.	0.6	48
53	The effect of predator appetite, prey warning coloration and luminance on predator foraging decisions. Behaviour, 2010, 147, 1121-1143.	0.4	48
54	Camouflage in marine fish. , 2011, , 186-211.		48

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55	Camouflage and Individual Variation in Shore Crabs (Carcinus maenas) from Different Habitats. PLoS ONE, 2014, 9, e115586.	1.1	47
56	Divergence in cryptic leaf colour provides local camouflage in an alpine plant. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171654.	1.2	46
57	The effects of pattern symmetry on detection of disruptive and background-matching coloration. Behavioral Ecology, 2006, 17, 828-832.	1.0	44
58	Avian Vision and Egg Colouration: Concepts and Measurements. Avian Biology Research, 2011, 4, 168-184.	0.4	44
59	Signaling in multiple modalities in male rhesus macaques: sex skin coloration and barks in relation to androgen levels, social status, and mating behavior. Behavioral Ecology and Sociobiology, 2013, 67, 1457-1469.	0.6	44
60	Motion dazzle and the effects of target patterning on capture success. BMC Evolutionary Biology, 2014, 14, 201.	3.2	43
61	Revealed by conspicuousness: distractive markings reduce camouflage. Behavioral Ecology, 2013, 24, 213-222.	1.0	42
62	Do animal eyespots really mimic eyes?. Environmental Epigenetics, 2014, 60, 26-36.	0.9	42
63	Escape Distance in Ground-Nesting Birds Differs with Individual Level of Camouflage. American Naturalist, 2016, 188, 231-239.	1.0	41
64	Shape, colour plasticity, and habitat use indicate morph-specific camouflage strategies in a marine shrimp. BMC Evolutionary Biology, 2016, 16, 218.	3.2	40
65	Color contrast and stability as key elements for effective warning signals. Frontiers in Ecology and Evolution, 2014, 2, .	1.1	39
66	Shape matters: animal colour patterns as signals of individual quality. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162446.	1.2	39
67	Changes in Womenâ€™s Facial Skin Color over the Ovulatory Cycle are Not Detectable by the Human Visual System. PLoS ONE, 2015, 10, e0130093.	1.1	37
68	The evolutionary ecology of decorating behaviour. Biology Letters, 2015, 11, 20150325.	1.0	37
69	Imperfect camouflage: how to hide in a variable world?. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190646.	1.2	37
70	Intraspecific Colour Variation among Lizards in Distinct Island Environments Enhances Local Camouflage. PLoS ONE, 2015, 10, e0135241.	1.1	36
71	<scp>patâ€geom</scp>: A software package for the analysis of animal patterns. Methods in Ecology and Evolution, 2019, 10, 591-600.	2.2	36
72	The role of stripe orientation in target capture success. Frontiers in Zoology, 2015, 12, 17.	0.9	35

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73	Plant Camouflage: Ecology, Evolution, and Implications. Trends in Ecology and Evolution, 2018, 33, 608-618.	4.2	35
74	Maternal effects and warning signal honesty in eggs and offspring of an aposematic ladybird beetle. Functional Ecology, 2014, 28, 1187-1196.	1.7	34
75	Hosts of avian brood parasites have evolved egg signatures with elevated information content. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150598.	1.2	34
76	Conspicuous male coloration impairs survival against avian predators in Aegean wall lizards, Podarcis erhardii. Ecology and Evolution, 2015, 5, 4115-4131.	0.8	34
77	Avoidance of an aposematically coloured butterfly by wild birds in a tropical forest. Ecological Entomology, 2016, 41, 627-632.	1.1	34
78	The appearance of mimetic Heliconius butterflies to predators and conspecifics. Evolution; International Journal of Organic Evolution, 2018, 72, 2156-2166.	1.1	33
79	Improved camouflage through ontogenetic colour change confers reduced detection risk in shore crabs. Functional Ecology, 2019, 33, 654-669.	1.7	33
80	Rockpool Gobies Change Colour for Camouflage. PLoS ONE, 2014, 9, e110325.	1.1	31
81	A window on the past: male ornamental plumage reveals the quality of their early-life environment. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122852.	1.2	30
82	Chapter 4 The effectiveness of disruptive coloration as a concealment strategy. Progress in Brain Research, 2006, 155, 49-64.	0.9	28
83	Testing Thayer's hypothesis: can camouflage work by distraction?. Biology Letters, 2008, 4, 648-650.	1.0	28
84	Relative advantages of dichromatic and trichromatic color vision in camouflage breaking. Behavioral Ecology, 2017, 28, 556-564.	1.0	28
85	Avian vision models and field experiments determine the survival value of peppered moth camouflage. Communications Biology, 2018, 1, 118.	2.0	28
86	Drosophila melanogaster cloak their eggs with pheromones, which prevents cannibalism. PLoS Biology, 2019, 17, e2006012.	2.6	27
87	The history, theory and evidence for a cryptic function of countershading. , 2011, , 53-72.		26
88	Rock pool fish use a combination of colour change and substrate choice to improve camouflage. Animal Behaviour, 2018, 144, 53-65.	0.8	26
89	Phenotypeâ€“environment matching in sand fleas. Biology Letters, 2015, 11, 20150494.	1.0	25
90	Individual egg camouflage is influenced by microhabitat selection and use of nest materials in ground-nesting birds. Behavioral Ecology and Sociobiology, 2018, 72, 1.	0.6	25

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91	Colour change and behavioural choice facilitate chameleon prawn camouflage against different seaweed backgrounds. Communications Biology, 2019, 2, 230.	2.0	25
92	The function of animal â€˜eyespotsâ€™: Conspicuousness but not eye mimicry is key. Environmental Epigenetics, 2009, 55, 319-326.	0.9	24
93	The causes and scope of political egalitarianism during the Last Glacial: a multi-disciplinary perspective. Biology and Philosophy, 2010, 25, 319-346.	0.7	24
94	Nest covering in plovers: How modifying the visual environment influences egg camouflage. Ecology and Evolution, 2016, 6, 7536-7545.	0.8	24
95	The unsuitability of HTML-based colour charts for estimating animal colours--a comment on Berggren and MerilÃ (2004). Frontiers in Zoology, 2005, 2, 14.	0.9	23
96	Rapid adaptive camouflage in cephalopods. , 2011, , 145-163.		23
97	Camouflage strategies interfere differently with observer search images. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181386.	1.2	23
98	Camouflage in decorator crabs. , 2011, , 212-236.		22
99	Through predatorsâ€™ eyes: phenotypeâ€“environment associations in shore crab coloration at different spatial scales. Biological Journal of the Linnean Society, 2017, 122, 738-751.	0.7	22
100	The adaptive value of camouflage and colour change in a polymorphic prawn. Scientific Reports, 2018, 8, 16028.	1.6	22
101	Rethinking visual supernormal stimuli in cuckoos: visual modeling of host and parasite signals. Behavioral Ecology, 2011, 22, 1012-1019.	1.0	18
102	Bird brood parasitism. Current Biology, 2013, 23, R909-R913.	1.8	18
103	Diversity in warning coloration is easily recognized by avian predators. Journal of Evolutionary Biology, 2017, 30, 1288-1302.	0.8	18
104	Colour polymorphism in the coconut crab (Birgus latro). Evolutionary Ecology, 2018, 32, 75-88.	0.5	18
105	Higher-level pattern features provide additional information to birds when recognizing and rejecting parasitic eggs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180197.	1.8	18
106	Camouflage in colour-changing animals. , 0, , 237-253.		17
107	Animal camouflage. , 2011, , 1-16.		17
108	Brood Parasitism Is Linked to Egg Pattern Diversity within and among Species of Australian Passerines. American Naturalist, 2016, 187, 351-362.	1.0	17

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109	Commercial Harvesting Has Driven the Evolution of Camouflage in an Alpine Plant. Current Biology, 2021, 31, 446-449.e4.	1.8	17
110	Ship noise inhibits colour change, camouflage, and anti-predator behaviour in shore crabs. Current Biology, 2020, 30, R211-R212.	1.8	16
111	The protective value of conspicuous signals is not impaired by shape, size, or position asymmetry. Behavioral Ecology, 2009, 20, 96-102.	1.0	15
112	Latitudinal variation in biophysical characteristics of avian eggshells to cope with differential effects of solar radiation. Ecology and Evolution, 2018, 8, 8019-8029.	0.8	15
113	Diet, development and the optimization of warning signals in postâ€metamorphic green and black poison frogs. Functional Ecology, 2013, 27, 816-829.	1.7	14
114	Discolouring the Amazon Rainforest: how deforestation is affecting butterfly coloration. Biodiversity and Conservation, 2020, 29, 2821-2838.	1.2	14
115	Variable crab camouflage patterns defeat search image formation. Communications Biology, 2021, 4, 287.	2.0	14
116	Insect herbivory may cause changes in the visual properties of leaves and affect the camouflage of herbivores to avian predators. Behavioral Ecology and Sociobiology, 2017, 71, 1.	0.6	13
117	Finding a signal hidden among noise: how can predators overcome camouflage strategies?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190478.	1.8	13
118	Body size but not warning signal luminance influences predation risk in recently metamorphosed poison frogs. Ecology and Evolution, 2015, 5, 4603-4616.	0.8	12
119	The functions of black-and-white coloration in mammals. , 2011, , 298-329.		11
120	Anti-Predator Coloration and Behaviour: A Longstanding Topic with Many Outstanding Questions. Environmental Epigenetics, 2015, 61, 702-707.	0.9	11
121	The Size, Symmetry, and Color Saturation of a Male Guppyâ€™s Ornaments Forecast His Resistance to Parasites. American Naturalist, 2020, 196, 597-608.	1.0	11
122	Evolutionary Ecology: Knowing How to Hide Your Eggs. Current Biology, 2013, 23, R106-R108.	1.8	10
123	Camouflage. Current Biology, 2016, 26, R654-R656.	1.8	10
124	No evidence of quantitative signal honesty across species of aposematic burnet moths (Lepidoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	10
125	What is camouflage through distractive markings? A reply to Merilaita et al. (2013). Behavioral Ecology, 2013, 24, e1272-e1273.	1.0	9
126	Does coevolution with a shared parasite drive hosts to partition their defences among species?. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170272.	1.2	9

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127	Rock pool gobies change their body pattern in response to background features. Biological Journal of the Linnean Society, 2017, 121, 109-121.	0.7	9
128	Egg spotting pattern in common cuckoos and their great reed warbler hosts: a century perspective. Biological Journal of the Linnean Society, 2017, 121, 50-62.	0.7	8
129	Sex differences but no evidence of quantitative honesty in the warning signals of six-spot burnet moths (Zygaena filipendulae L.)*. Evolution; International Journal of Organic Evolution, 2018, 72, 1460-1474.	1.1	8
130	Parental phenotype not predator cues influence egg warning coloration and defence levels. Animal Behaviour, 2018, 140, 177-186.	0.8	7
131	What can camouflage tell us about non-human visual perception? A case study of multiple cue use in cuttlefish (Sepia spp.). , 2011, , 164-185.		6
132	Horse vision and obstacle visibility in horseracing. Applied Animal Behaviour Science, 2020, 222, 104882.	0.8	5
133	Generalist camouflage can be more successful than microhabitat specialisation in natural environments. Bmc Ecology and Evolution, 2021, 21, 151.	0.7	5
134	Confusion and illusion: understanding visual traits and behavior. A comment on Kelley and Kelley. Behavioral Ecology, 2014, 25, 464-465.	1.0	4
135	Evolutionary Ecology: Insect Mothers Control Their Egg Colours. Current Biology, 2015, 25, R755-R757.	1.8	4
136	Camouflage and visual perception. , 2011, , 118-144.		3
137	Invasive Egg Predators and Food Availability Interactively Affect Maternal Investment in Egg Chemical Defense. Frontiers in Ecology and Evolution, 2018, 6, .	1.1	3
138	Hosts elevate either within-clutch consistency or between-clutch distinctiveness of egg phenotypes in defence against brood parasites. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210326.	1.2	3
139	Different ontogenetic trajectories of body colour, pattern and crypsis in two sympatric intertidal crab species. Biological Journal of the Linnean Society, 2021, 132, 17-31.	0.7	3
140	Camouflage behaviour and body orientation on backgrounds containing directional patterns. , 0, , 101-117.		2
141	The concealment of body parts through coincident disruptive coloration. , 0, , 34-52.		1
142	When to attack defended prey? A comment on Skelhorn et al.. Behavioral Ecology, 2016, 27, 966.1-966.	1.0	1
143	Sensory Ecology, Information, and Decision-Making. , 2013, , 2-18.		1
144	Camouflage-breaking mathematical operators and countershading. , 0, , 73-86.		0

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145	Nature's artistry. , 0, , 87-100.		0
146	Effects of animal camouflage on the evolution of live backgrounds. , 0, , 275-297.		0
147	Exchanging messages between plants and animals. Trends in Ecology and Evolution, 2013, 28, 386-387.	4.2	0
148	Evolution: Predator versus Parasite. Current Biology, 2014, 24, R388-R390.	1.8	0
149	Color in camouflage, mimicry, and warning signals. , 0, , 357-376.		0
150	Sensing the World. , 2013, , 21-39.		0