Julian C Partridge

List of Publications by Citations

129 papers	6,736 citations	47 h-index	79 g-index
132 ext. papers	7,413 ext. citations	4.7 avg, IF	5.64 L-index

#	Paper	IF	Citations
129	Using digital photography to study animal coloration. *Biological Journal of the Linnean Society*, **2007**, 90, 211-237	1.9	439
128	Visual pigments, oil droplets, ocular media and cone photoreceptor distribution in two species of passerine bird: the blue tit (Parus caeruleus L.) and the blackbird (Turdus merula L.). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2000**, 186, 375-87	2.3	365
127	Ultraviolet vision and mate choice in zebra finches. *Nature*, **1996**, 380, 433-435	50.4	356
126	Plumage Reflectance and the Objective Assessment of Avian Sexual Dichromatism. *American Naturalist*, **1999**, 153, 183-200	3.7	350
125	Ultraviolet Vision in Birds. *Advances in the Study of Behavior*, **2000**, 29, 159-214	3.4	318
124	Ultraviolet plumage colors predict mate preferences in starlings. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 8618-21	11.5	311
123	Visual pigments, oil droplets and cone photoreceptor distribution in the european starling (Sturnus vulgaris). *Journal of Experimental Biology*, **1998**, 201, 1433-1446	3	148
122	Interspecific variation in the visual pigments of deep-sea fishes. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1989**, 164, 513-29	2.3	137
121	Visual pigment polymorphism in the guppy Poecilia reticulata. *Vision Research*, **1987**, 27, 1243-52	2.1	128
120	Visual pigments and the acquisition of visual information. *Journal of Experimental Biology*, **1989**, 146, 1-20	3	123
119	The molecular basis for spectral tuning of rod visual pigments in deep-sea fish. *Journal of Experimental Biology*, **2001**, 204, 3333-3344	3	123
118	The eyes of deep-sea fish. I: Lens pigmentation, tapeta and visual pigments. *Progress in Retinal and Eye Research*, **1998**, 17, 597-636	20.5	121
117	Non-polarizing broadband multilayer reflectors in fish. *Nature Photonics*, **2012**, 6, 759-763	33.9	114
116	The visual ecology of avian cone oil droplets. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1989**, 165, 415-426	2.3	113
115	Retinal specializations in the eyes of deep-sea teleosts. *Journal of Fish Biology*, **1996**, 49, 157-174	1.9	109
114	The molecular basis for spectral tuning of rod visual pigments in deep-sea fish. *Journal of Experimental Biology*, **2001**, 204, 3333-44	3	107
113	Visual pigments and the acquisition of visual information. *Journal of Experimental Biology*, **1989**, 146, 1-20	3	101

112	Visual pigments, cone oil droplets, ocular media and predicted spectral sensitivity in the domestic turkey (Meleagris gallopavo). *Vision Research*, **1999**, 39, 3321-8	2.1	98
111	Ultraviolet vision and mate choice in the guppy (Poecilia reticulata). *Behavioral Ecology*, **2002**, 13, 11-19	2.3	93
110	Ultraviolet cues affect the foraging behaviour of blue tits. *Proceedings of the Royal Society B: Biological Sciences*, **1998**, 265, 1509-1514	4.4	93
109	The ecology of the visual pigments of snappers (Lutjanidae) on the Great Barrier Reef. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1994**, 174, 461	2.3	93
108	Is the ultraviolet waveband a special communication channel in avian mate choice?. *Journal of Experimental Biology*, **2001**, 204, 2499-2507	3	86
107	The molecular basis for the green-blue sensitivity shift in the rod visual pigments of the European eel. *Proceedings of the Royal Society B: Biological Sciences*, **1995**, 262, 289-95	4.4	80
106	Dragon fish see using chlorophyll. *Nature*, **1998**, 393, 423-424	50.4	77
105	Is the ultraviolet waveband a special communication channel in avian mate choice?. *Journal of Experimental Biology*, **2001**, 204, 2499-507	3	76
104	Visual pigments, cone oil droplets and ocular media in four species of estrildid finch. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2000**, 186, 681-94	2.3	71
103	Visual pigments in the individual rods of deep-sea fishes. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1988**, 162, 543-550	2.3	71
102	The modelling of optimal visual pigments of dichromatic teleosts in green coastal waters. *Vision Research*, **1991**, 31, 361-71	2.1	66
101	Developmental changes in the cone visual pigments of black bream Acanthopagrus butcheri. *Journal of Experimental Biology*, **2002**, 205, 3661-3667	3	65
100	Visual pigments and optical habitats of surfperch (Embiotocidae) in the California kelp forest. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2001**, 187, 875-89	2.3	64
99	Far-red sensitivity of dragon fish. *Nature*, **1995**, 375, 21-22	50.4	63
98	A new template for rhodopsin (vitamin A1 based) visual pigments. *Vision Research*, **1991**, 31, 619-30	2.1	63
97	Enhanced retinal longwave sensitivity using a chlorophyll-derived photosensitiser in Malacosteus niger, a deep-sea dragon fish with far red bioluminescence. *Vision Research*, **1999**, 39, 2817-32	2.1	62
96	Retinal asymmetry in birds. *Current Biology*, **2000**, 10, 115-7	6.3	58
95	Mechanisms of wavelength tuning in the rod opsins of deep-sea fishes. *Proceedings of the Royal Society B: Biological Sciences*, **1997**, 264, 155-63	4.4	57

94	Dynamic polarization vision in mantis shrimps. *Nature Communications*, **2016**, 7, 12140	17.4	55
93	Visual system evolution and the nature of the ancestral snake. *Journal of Evolutionary Biology*, **2015**, 28, 1309-20	2.3	55
92	Switch in rod opsin gene expression in the European eel, Anguilla anguilla (L.). *Proceedings of the Royal Society B: Biological Sciences*, **1998**, 265, 869-74	4.4	55
91	Using industry ROV videos to assess fish associations with subsea pipelines. *Continental Shelf Research*, **2017**, 141, 76-97	2.4	54
90	Single and multiple visual pigments in deep-sea fishes. *Journal of the Marine Biological Association of the United Kingdom*, **1992**, 72, 113-130	1.1	52
89	Vision in lanternfish (Myctophidae): Adaptations for viewing bioluminescence in the deep-sea. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2009**, 56, 1003-1017	2.5	51
88	On the visual pigments of deep-sea fish. *Journal of Fish Biology*, **1997**, 50, 68-85	1.9	51
87	Seven retinal specializations in the tubular eye of the deep-sea pearleye, Scopelarchus michaelsarsi: a case study in visual optimization. *Brain, Behavior and Evolution*, **1998**, 51, 291-314	1.5	50
86	Visual Pigments, Ocular Filters and the Evolution of Snake Vision. *Molecular Biology and Evolution*, **2016**, 33, 2483-95	8.3	49
85	Developmental changes in the cone visual pigments of black bream Acanthopagrus butcheri. *Journal of Experimental Biology*, **2002**, 205, 3661-7	3	49
84	Suspension Feeding Adaptations to Extreme Flow Environments in a Marine Bryozoan. *Biological Bulletin*, **1999**, 196, 205-215	1.5	48
83	A novel vertebrate eye using both refractive and reflective optics. *Current Biology*, **2009**, 19, 108-14	6.3	47
82	Spectral absorbance changes in the violet/blue sensitive cones of the juvenile pollack,Pollachius pollachius. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1988**, 163, 699-703	2.3	45
81	Opsin substitution induced in retinal rods of the eel (Anguilla anguilla (L.)): a model for G -protein-linked receptors. *Proceedings of the Royal Society B: Biological Sciences*, **1993**, 254, 227-232	4.4	44
80	Bumblebees learn polarization patterns. *Current Biology*, **2014**, 24, 1415-1420	6.3	43
79	Does Lepidopteran Larval Crypsis Extend into the Ultraviolet?. *Die Naturwissenschaften*, **1998**, 85, 189-192	2	43
78	Eyes in the sea: Unlocking the mysteries of the ocean using industrial, remotely operated vehicles (ROVs). *Science of the Total Environment*, **2018**, 634, 1077-1091	10.2	41
77	Ultraviolet dermal reflexion and mate choice in the guppy, Poecilia reticulata. *Animal Behaviour*, **2003**, 65, 693-700	2.8	39

76	Adaptation of visual pigments to the aquatic environment **1999**, 251-283		39
75	Tubular eyes of deep-sea fishes: a comparative study of retinal topography. *Brain, Behavior and Evolution*, **1997**, 50, 335-57	1.5	37
74	Diel shifts and habitat associations of fish assemblages on a subsea pipeline. *Fisheries Research*, **2018**, 206, 220-234	2.3	34
73	Long-wave sensitivity in deep-sea stomiid dragonfish with far-red bioluminescence: evidence for a dietary origin of the chlorophyll-derived retinal photosensitizer of Malacosteus niger. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2000**, 355, 1269-72	5.8	34
72	Zebrafish preference for light or dark is dependent on ambient light levels and olfactory stimulation. *Zebrafish*, **2011**, 8, 17-22	2	32
71	Multiple rod-cone and cone-rod photoreceptor transmutations in snakes: evidence from visual opsin gene expression. *Proceedings of the Royal Society B: Biological Sciences*, **2016**, 283,	4.4	30
70	Visual and lenticular pigments in the eyes of demersal deep-sea fishes. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1995**, 177, 111	2.3	30
69	Enzyme sequence and its relationship to hyperbaric stability of artificial and natural fish lactate dehydrogenases. *PLoS ONE*, **2008**, 3, e2042	3.7	30
68	Spectral sensitivities of the seahorses Hippocampus subelongatus and Hippocampus barbouri and the pipefish Stigmatopora argus. *Visual Neuroscience*, **2007**, 24, 345-54	1.7	29
67	Avian colour vision and avian video playback experiments. *Acta Ethologica*, **2000**, 3, 29-37	1.1	29
66	Colour vision in billfish. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2000**, 355, 1253-6	5.8	29
65	Disordered animal multilayer reflectors and the localization of light. *Journal of the Royal Society Interface*, **2014**, 11, 20140948	4.1	28
64	Year-round sexual harassment as a behavioral mediator of vertebrate population dynamics. *Ecological Monographs*, **2012**, 82, 351-366	9	28
63	Bioluminescence in the deep sea: Free-fall lander observations in the Atlantic Ocean off Cape Verde. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2006**, 53, 1272-1283	2.5	28
62	Rod visual pigment changes in the elver of the eel Anguilla anguilla L. measured by microspectrophotometry. *Journal of Fish Biology*, **1992**, 41, 601-611	1.9	27
61	Fish associated with a subsea pipeline and adjacent seafloor of the North West Shelf of Western Australia. *Marine Environmental Research*, **2018**, 141, 53-65	3.3	25
60	Fish and habitats on wellhead infrastructure on the north west shelf of Western Australia. *Continental Shelf Research*, **2018**, 164, 10-27	2.4	23
59	Reflecting optics in the diverticular eye of a deep-sea barreleye fish (Rhynchohyalus natalensis). *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20133223	4.4	23

58	Spectral irradiance and foraging efficiency in the guppy, Poecilia reticulata. *Animal Behaviour*, **2005**, 69, 519-527	2.8	22
57	The evolution of scale sensilla in the transition from land to sea in elapid snakes. *Open Biology*, **2016**, 6,	7	21
56	A century later: Long-term change of an inshore temperate marine fish assemblage. *Journal of Sea Research*, **2011**, 65, 187-194	1.9	21
55	Light environment and mating behavior in Trinidadian guppies (Poecilia reticulata). *Behavioral Ecology and Sociobiology*, **2009**, 64, 169-182	2.5	20
54	Predicting ecological responses in a changing ocean: the effects of future climate uncertainty. *Marine Biology*, **2018**, 165, 7	2.5	20
53	The influence of depth and a subsea pipeline on fish assemblages and commercially fished species. *PLoS ONE*, **2018**, 13, e0207703	3.7	18
52	Predicting future distributions of lanternfish, a significant ecological resource within the Southern Ocean. *Diversity and Distributions*, **2019**, 25, 1259	5	17
51	Ultraviolet photopigment sensitivity and ocular media transmittance in gulls, with an evolutionary perspective. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2009**, 195, 585-90	2.3	17
50	Photon hunting in the twilight zone: visual features of mesopelagic bioluminescent sharks. *PLoS ONE*, **2014**, 9, e104213	3.7	17
49	Vision and visual variation in the peacock blenny. *Journal of Fish Biology*, **2004**, 65, 227-250	1.9	16
48	Foraging Activity of Limpets in Normal and Abnormal Tidal Regimes. *Journal of the Marine Biological Association of the United Kingdom*, **1991**, 71, 537-554	1.1	16
47	Microspectrophotometric determinations of rod visual pigments in some adult and larval Australian amphibians. *Visual Neuroscience*, **1992**, 9, 137-42	1.7	15
46	Behavioural investigation of polarisation sensitivity in the Japanese quail (Coturnix coturnix japonica) and the European starling (Sturnus vulgaris). *Journal of Experimental Biology*, **2003**, 206, 3201-10	3	14
45	Evolution of the eyes of vipers with and without infrared-sensing pit organs. *Biological Journal of the Linnean Society*, **2019**, 126, 796-823	1.9	13
44	Aquatic prey use countershading camouflage to match the visual background. *Behavioral Ecology*, **2017**, 28, 1314-1322	2.3	13
43	Polarization sensitivity as a visual contrast enhancer in the Emperor dragonfly larva, Anax imperator. *Journal of Experimental Biology*, **2015**, 218, 3399-405	3	13
42	The absorbance spectrum and photosensitivity of a new synthetic "visual pigment" based on 4-hydroxyretinal. *Vision Research*, **1992**, 32, 3-10	2.1	13
41	Enhancing the Scientific Value of Industry Remotely Operated Vehicles (ROVs) in Our Oceans. *Frontiers in Marine Science*, **2020**, 7,	4.5	12

40	Suppression of Brewster delocalization anomalies in an alternating isotropic-birefringent random layered medium. *Physical Review B*, **2013**, 88,	3.3	12
39	The ecology of visual pigment tuning in an Australian marsupial: the honey possum Tarsipes rostratus. *Journal of Experimental Biology*, **2005**, 208, 1803-15	3	12
38	Spectral sensitivity of vision and bioluminescence in the midwater shrimp Sergestes similis. *Biological Bulletin*, **1999**, 197, 348-60	1.5	12
37	The Effects of Plant Virus Infection on Polarization Reflection from Leaves. *PLoS ONE*, **2016**, 11, e0152836	3.7	12
36	Female guppies (Poecilia reticulata) show no preference for conspecific chemosensory cues in the field or an artificial flow chamber. *Behaviour*, **2008**, 145, 1329-1346	1.4	11
35	Shark conservation hindered by lack of habitat protection. *Global Ecology and Conservation*, **2020**, 21, e00862	2.8	11
34	Spectral Diversification and Trans-Species Allelic Polymorphism during the Land-to-Sea Transition in Snakes. *Current Biology*, **2020**, 30, 2608-2615.e4	6.3	10
33	The independence of eye movements in a stomatopod crustacean is task dependent. *Journal of Experimental Biology*, **2017**, 220, 1360-1368	3	10
32	Ion-Selective Membranes Involved in Pattern-Forming Processes. *Journal of Physical Chemistry B*, **2004**, 108, 18135-18139	3.4	10
31	Evolution under pressure and the adaptation of visual pigment compressibility in deep-sea environments. *Molecular Phylogenetics and Evolution*, **2016**, 105, 160-165	4.1	9
30	Food and conspecific chemical cues modify visual behavior of zebrafish, Danio rerio. *Zebrafish*, **2012** , 9, 68-73	2	9
29	Condition-dependent mate choice in the guppy: a role for short-term food restriction?. *Behaviour*, **2006**, 143, 1317-1340	1.4	9
28	Localisation and origin of the bacteriochlorophyll-derived photosensitizer in the retina of the deep-sea dragon fish Malacosteus niger. *Scientific Reports*, **2016**, 6, 39395	4.9	9
27	Phototactic tails: Evolution and molecular basis of a novel sensory trait in sea snakes. *Molecular Ecology*, **2019**, 28, 2013-2028	5.7	9
26	Deep sea benthic bioluminescence at artificial food falls, 1,000–4,800 m depth, in the Porcupine Seabight and Abyssal Plain, North East Atlantic Ocean. *Marine Biology*, **2007**, 150, 1053-1060	2.5	8
25	Animal behaviour: ultraviolet fish faces. *Current Biology*, **2010**, 20, R318-20	6.3	7
24	Illumination of trawl gear by mechanically stimulated bioluminescence. *Fisheries Research*, **2006**, 81, 276-282	2.3	7
23	diceCT: A Valuable Technique to Study the Nervous System of Fish. *ENeuro*, **2020**, 7,	3.9	7

22	Future Distribution of Suitable Habitat for Pelagic Sharks in Australia Under Climate Change Models. *Frontiers in Marine Science*, **2020**, 7,	4.5	7
21	A new method for mapping spatial resolution in compound eyes suggests two visual streaks in fiddler crabs. *Journal of Experimental Biology*, **2020**, 223,	3	6
20	Complex gaze stabilization in mantis shrimp. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	5
19	Volumetric analysis and morphological assessment of the ascending olfactory pathway in an elasmobranch and a teleost using diceCT. *Brain Structure and Function*, **2020**, 225, 2347-2375	4	5
18	Behavioural and pathomorphological impacts of flash photography on benthic fishes. *Scientific Reports*, **2019**, 9, 748	4.9	4
17	Observations on the retina and 'optical fold' of a mesopelagic sabretooth fish, Evermanella balbo. *Cell and Tissue Research*, **2019**, 378, 411-425	4.2	4
16	The effect of elevated hydrostatic pressure on the spectral absorption of deep-sea fish visual pigments. *Journal of Experimental Biology*, **2006**, 209, 314-9	3	4
15	Convergence of Olfactory Inputs within the Central Nervous System of a Cartilaginous and a Bony Fish: An Anatomical Indicator of Olfactory Sensitivity. *Brain, Behavior and Evolution*, **2020**, 95, 139-161	1.5	4
14	The Value of Subsea Pipelines to Marine Biodiversity **2018**,		3
13	Gaze stabilization in mantis shrimp in response to angled stimuli. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2019**, 205, 515-527	2.3	3
12	Sensory ecology: giant eyes for giant predators?. *Current Biology*, **2012**, 22, R268-70	6.3	3
11	Multimodal Imaging and Analysis of the Neuroanatomical Organization of the Primary Olfactory Inputs in the Brownbanded Bamboo Shark,. *Frontiers in Neuroanatomy*, **2020**, 14, 560534	3.6	1
10	An omnidirectional broadband mirror design inspired by biological multilayer reflectors **2012**,		1
9	Spectral sensitivity in the guppy (poecilia reticulata) measured using the dorsal light response. *Marine and Freshwater Behaviour and Physiology*, **1996**, 28, 163-176	1.1	1
8	Light and life on RRS Discovery. *Journal of the Marine Biological Association of the United Kingdom*, **1992**, 72, 1-4	1.1	1
7	Catecholamine-induced colour changes in the corneal iridophores of the sand goby, Pomatoschistus minutus. *Comparative Biochemistry and Physiology Part C: Comparative Pharmacology*, **1989**, 94, 351-355		1
6	The effects of surface structure mutations in Arabidopsis thaliana on the polarization of reflections from virus-infected leaves. *PLoS ONE*, **2017**, 12, e0174014	3.7	1
5	Comparing the Utility of Industry ROV and Hybrid-AUV Imagery for Surveys of Fish Along a Subsea Pipeline. *Marine Technology Society Journal*, **2020**, 54, 33-42	0.5	1

4	From matte banded to glossy black: structures underlying colour change in the caudal lures of southern death adders (Acanthophis antarcticus, Reptilia: Elapidae). *Biological Journal of the Linnean Society*, **2021**, 132, 666-675	1.9	1
3	On the visual pigments of deep-sea fish **1997**, 50, 68		1
2	Quantifying fishing activity targeting subsea pipelines by commercial trap fishers. *Reviews in Fish Biology and Fisheries*, **2021**, 31, 1009-1023	6	0
1	Mystery pufferfish create elaborate circular nests at mesophotic depths in Australia. *Journal of Fish Biology*, **2020**, 97, 1401-1407	1.9	0