

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70 papers	2,395 citations	24 h-index	48 g-index
78 ext. papers	2,949 ext. citations	5.7 avg, IF	5.77 L-index

#	Paper	IF	Citations
70	Animal Eyes 2012 ,		424
69	Advanced optics in a jellyfish eye. <i>Nature</i> , 2005 , 435, 201-5	50.4	189
68	Absorption of white light in photoreceptors. <i>Vision Research</i> , 1998 , 38, 195-207	2.1	163
67	The evolution of eyes and visually guided behaviour. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009 , 364, 2833-47	5.8	144
66	Eye evolution and its functional basis. <i>Visual Neuroscience</i> , 2013 , 30, 5-20	1.7	143
65	Optics and Evolution of the Compound Eye 1989 , 30-73		98
64	Eye ancestry: old genes for new eyes. <i>Current Biology</i> , 1996 , 6, 39-42	6.3	90
63	Zebrafish Differentially Process Color across Visual Space to Match Natural Scenes. <i>Current Biology</i> , 2018 , 28, 2018-2032.e5	6.3	89
62	Box jellyfish use terrestrial visual cues for navigation. <i>Current Biology</i> , 2011 , 21, 798-803	6.3	77
61	From cornea to retinal image in invertebrate eyes. <i>Trends in Neurosciences</i> , 1990 , 13, 55-64	13.3	67
60	A unique advantage for giant eyes in giant squid. <i>Current Biology</i> , 2012 , 22, 683-8	6.3	62
59	Eye evolution: a question of genetic promiscuity. <i>Current Opinion in Neurobiology</i> , 2004 , 14, 407-14	7.6	56
58	A functional analysis of compound eye evolution. <i>Arthropod Structure and Development</i> , 2007 , 36, 373-85	1.8	54
57	Interpreting melanin-based coloration through deep time: a critical review. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20150614	4.4	47
56	Visual navigation in starfish: first evidence for the use of vision and eyes in starfish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014 , 281, 20133011	4.4	46
55	Here, There and Everywhere: The Radiolar Eyes of Fan Worms (Annelida, Sabellidae). <i>Integrative and Comparative Biology</i> , 2016 , 56, 784-795	2.8	43
54	The spectral sensitivity of the lens eyes of a box jellyfish, <i>Tripedalia cystophora</i> (Conant). <i>Journal of Experimental Biology</i> , 2006 , 209, 3758-65	3	39

53	Computational visual ecology in the pelagic realm. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014 , 369, 20130038	5.8	33
52	Unique structure and optics of the lesser eyes of the box jellyfish <i>Tripedalia cystophora</i> . <i>Vision Research</i> , 2008 , 48, 1061-73	2.1	31
51	Avian UV vision enhances leaf surface contrasts in forest environments. <i>Nature Communications</i> , 2019 , 10, 238	17.4	30
50	A deepwater fish with V-shaped dorsal spine-associated luminescence in a counterilluminating lanternshark. <i>Scientific Reports</i> , 2013 , 3, 1308	4.9	30
49	Eye evolution: the blurry beginning. <i>Current Biology</i> , 2008 , 18, R1096-8	6.3	30
48	Structure and optics of the eyes of the box jellyfish <i>Chiropsella bronzie</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009 , 195, 557-69	2.3	27
47	Stellar performance: mechanisms underlying Milky Way orientation in dung beetles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017 , 372,	5.8	25
46	Radiolar Eyes of Serpulid Worms (Annelida, Serpulidae): Structures, Function, and Phototransduction. <i>Biological Bulletin</i> , 2017 , 233, 39-57	1.5	24
45	Photoreception in Phytoplankton. <i>Integrative and Comparative Biology</i> , 2016 , 56, 764-775	2.8	23
44	How animals follow the stars. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	22
43	Iso-luminance counterillumination drove bioluminescent shark radiation. <i>Scientific Reports</i> , 2014 , 4, 4328	4.9	22
42	Low-Resolution Vision-at the Hub of Eye Evolution. <i>Integrative and Comparative Biology</i> , 2017 , 57, 1066-1070	10.7	21
41	The sea urchin uses low resolution vision to find shelter and deter enemies. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	21
40	The W-shaped pupil in cuttlefish (<i>Sepia officinalis</i>): functions for improving horizontal vision. <i>Vision Research</i> , 2013 , 83, 19-24	2.1	19
39	Three unexpected cases of refracting superposition eyes in crustaceans. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1990 , 167, 71	2.3	18
38	Low-resolution vision in a velvet worm (Onychophora). <i>Journal of Experimental Biology</i> , 2018 , 221,	3	14
37	Phototransduction in fan worm radiolar eyes. <i>Current Biology</i> , 2017 , 27, R698-R699	6.3	14
36	Temporal properties of the lens eyes of the box jellyfish <i>Tripedalia cystophora</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2010 , 196, 213-20	2.3	14

35	Fossil insect eyes shed light on trilobite optics and the arthropod pigment screen. <i>Nature</i> , 2019 , 573, 122-125	50.4	13
34	Quantifying biologically essential aspects of environmental light. <i>Journal of the Royal Society Interface</i> , 2021 , 18, 20210184	4.1	10
33	The presence of lateral photophores correlates with increased speciation in deep-sea bioluminescent sharks. <i>Royal Society Open Science</i> , 2015 , 2, 150219	3.3	9
32	Hunting in Bioluminescent Light: Vision in the Nocturnal Box Jellyfish <i>Copula sivickisi</i> . <i>Frontiers in Physiology</i> , 2016 , 7, 99	4.6	9
31	Comparative Vision: Can Bacteria Really See?. <i>Current Biology</i> , 2016 , 26, R369-71	6.3	9
30	Orienting to polarized light at night - matching lunar skylight to performance in a nocturnal beetle. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	9
29	A millipede compound eye mediating low-resolution vision. <i>Vision Research</i> , 2019 , 165, 36-44	2.1	8
28	The Diversity of Eyes and Vision. <i>Annual Review of Vision Science</i> , 2021 , 7, 19-41	8.2	8
27	Fan worm eyes. <i>Current Biology</i> , 2016 , 26, R907-R908	6.3	7
26	Analysis of the genetically tractable crustacean <i>Parhyale hawaiiensis</i> reveals the organisation of a sensory system for low-resolution vision. <i>BMC Biology</i> , 2019 , 17, 67	7.3	7
25	Photoresponses in the radiolar eyes of the fan worm. <i>Journal of Experimental Biology</i> , 2019 , 222,	3	7
24	Contrast and rate of light intensity decrease control directional swimming in the box jellyfish <i>Tripedalia cystophora</i> (Cnidaria, Cubomedusae). <i>Hydrobiologia</i> , 2013 , 703, 69-77	2.4	6
23	More than meets the eye: Predator-induced pupil size plasticity in a teleost fish. <i>Journal of Animal Ecology</i> , 2020 , 89, 2258-2267	4.7	6
22	Non-directional Photoreceptors in the Pluteus of <i>Strongylocentrotus purpuratus</i> . <i>Frontiers in Ecology and Evolution</i> , 2016 , 4,	3.7	6
21	Lens eyes in protists. <i>Current Biology</i> , 2020 , 30, R458-R459	6.3	5
20	Light pollution forces a change in dung beetle orientation behavior. <i>Current Biology</i> , 2021 , 31, 3935-3942	2.3	5
19	The jumping spider <i>Saitis barbipes</i> lacks a red photoreceptor to see its own sexually dimorphic red coloration. <i>Die Naturwissenschaften</i> , 2021 , 109, 6	2	5
18	The giant eyes of giant squid are indeed unexpectedly large, but not if used for spotting sperm whales. <i>BMC Evolutionary Biology</i> , 2013 , 13, 187	3	3

17	Evolution: An Irresistibly Clear View of Land. <i>Current Biology</i> , 2017 , 27, R715-R717	6.3	3
16	Eye Evolution in Animals 2020 , 96-121		3
15	Ultraviolet vision aids the detection of nutrient-dense non-signaling plant foods. <i>Vision Research</i> , 2021 , 183, 16-29	2.1	3
14	Light and Visual Environments 2020 , 4-30		2
13	OBSOLETE: Eye Evolution in Animals 2020 ,		1
12	Modelling the visual world of a velvet worm. <i>PLoS Computational Biology</i> , 2021 , 17, e1008808	5	1
11	Colour and Vision 2021 , 57-106		1
10	The Evolution of Visual Roles - Ancient Vision Versus Object Vision.. <i>Frontiers in Neuroanatomy</i> , 2022 , 16, 789375	3.6	0
9	Visual Tracking of Box Jellyfish. <i>Advances in Environmental Engineering and Green Technologies Book Series</i> , 107-122	0.4	0
8	Is our retina really upside down?. <i>Current Biology</i> , 2022 , 32, R300-R303	6.3	0
7	Seeing the world through the eyes of a butterfly: visual ecology of the territorial males of <i>Pararge aegeria</i> (Lepidoptera: Nymphalidae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2021 , 207, 701-713	2.3	
6	The Evolution of Eyes 2021 , 5-32		
5	Visions 2021 , 33-56		
4	Visions of a Digital Future 2021 , 154-179		
3	Vision of the Cosmos 2021 , 131-153		
2	Science, Vision, Perspective 2021 , 107-130		
1	The role of detectability in the evolution of avian-dispersed fruit color.. <i>Vision Research</i> , 2022 , 196, 108046		