Dan-E Nilsson

List of Publications by Year in Descending Order

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	The Evolution of Visual Roles - Ancient Vision Versus Object Vision.. *Frontiers in Neuroanatomy*, **2022**, 16, 789375	3.6	0
69	The role of detectability in the evolution of avian-dispersed fruit color.. *Vision Research*, **2022**, 196, 108046	2.1	6
68	Is our retina really upside down?. *Current Biology*, **2022**, 32, R300-R303	6.3	0
67	Seeing the world through the eyes of a butterfly: visual ecology of the territorial males of Pararge aegeria (Lepidoptera: Nymphalidae). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2021**, 207, 701-713	2.3	
66	Quantifying biologically essential aspects of environmental light. *Journal of the Royal Society Interface*, **2021**, 18, 20210184	4.1	10
65	Ultraviolet vision aids the detection of nutrient-dense non-signaling plant foods. *Vision Research*, **2021**, 183, 16-29	2.1	3
64	Modelling the visual world of a velvet worm. *PLoS Computational Biology*, **2021**, 17, e1008808	5	1
63	The Evolution of Eyes **2021**, 5-32		
62	Visions **2021**, 33-56		
61	Colour and Vision **2021**, 57-106		1
60	Visions of a Digital Future **2021**, 154-179		
59	Vision of the Cosmos **2021**, 131-153		
58	Science, Vision, Perspective **2021**, 107-130		
57	Light pollution forces a change in dung beetle orientation behavior. *Current Biology*, **2021**, 31, 3935-3942.e3	6.3	5
56	The Diversity of Eyes and Vision. *Annual Review of Vision Science*, **2021**, 7, 19-41	8.2	8
55	The jumping spider Saitis barbipes lacks a red photoreceptor to see its own sexually dimorphic red coloration. *Die Naturwissenschaften*, **2021**, 109, 6	2	5
54	Lens eyes in protists. *Current Biology*, **2020**, 30, R458-R459	6.3	5

53	Light and Visual Environments **2020**, 4-30		2
52	Eye Evolution in Animals **2020**, 96-121		3
51	OBSOLETE: Eye Evolution in Animals **2020**,		1
50	More than meets the eye: Predator-induced pupil size plasticity in a teleost fish. *Journal of Animal Ecology*, **2020**, 89, 2258-2267	4.7	6
49	Avian UV vision enhances leaf surface contrasts in forest environments. *Nature Communications*, **2019**, 10, 238	17.4	30
48	Analysis of the genetically tractable crustacean Parhyale hawaiensis reveals the organisation of a sensory system for low-resolution vision. *BMC Biology*, **2019**, 17, 67	7.3	7
47	Fossil insect eyes shed light on trilobite optics and the arthropod pigment screen. *Nature*, **2019**, 573, 122-125	50.4	13
46	A millipede compound eye mediating low-resolution vision. *Vision Research*, **2019**, 165, 36-44	2.1	8
45	Photoresponses in the radiolar eyes of the fan worm. *Journal of Experimental Biology*, **2019**, 222,	3	7
44	Orienting to polarized light at night - matching lunar skylight to performance in a nocturnal beetle. *Journal of Experimental Biology*, **2019**, 222,	3	9
43	Low--resolution vision in a velvet worm (Onychophora). *Journal of Experimental Biology*, **2018**, 221,	3	14
42	How animals follow the stars. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	22
41	Zebrafish Differentially Process Color across Visual Space to Match Natural Scenes. *Current Biology*, **2018**, 28, 2018-2032.e5	6.3	89
40	The sea urchin uses low resolution vision to find shelter and deter enemies. *Journal of Experimental Biology*, **2018**, 221,	3	21
39	Stellar performance: mechanisms underlying Milky Way orientation in dung beetles. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	25
38	Radiolar Eyes of Serpulid Worms (Annelida, Serpulidae): Structures, Function, and Phototransduction. *Biological Bulletin*, **2017**, 233, 39-57	1.5	24
37	Low-Resolution Vision-at the Hub of Eye Evolution. *Integrative and Comparative Biology*, **2017**, 57, 1066-1070	2.8	21
36	Evolution: An Irresistibly Clear View of Land. *Current Biology*, **2017**, 27, R715-R717	6.3	3

35	Phototransduction in fan worm radiolar eyes. *Current Biology*, **2017**, 27, R698-R699	6.3	14
34	Fan worm eyes. *Current Biology*, **2016**, 26, R907-R908	6.3	7
33	Photoreception in Phytoplankton. *Integrative and Comparative Biology*, **2016**, 56, 764-775	2.8	23
32	Non-directional Photoreceptors in the Pluteus of Strongylocentrotus purpuratus. *Frontiers in Ecology and Evolution*, **2016**, 4,	3.7	6
31	Hunting in Bioluminescent Light: Vision in the Nocturnal Box Jellyfish Copula sivickisi. *Frontiers in Physiology*, **2016**, 7, 99	4.6	9
30	Comparative Vision: Can Bacteria Really See?. *Current Biology*, **2016**, 26, R369-71	6.3	9
29	Here, There and Everywhere: The Radiolar Eyes of Fan Worms (Annelida, Sabellidae). *Integrative and Comparative Biology*, **2016**, 56, 784-795	2.8	43
28	The presence of lateral photophores correlates with increased speciation in deep-sea bioluminescent sharks. *Royal Society Open Science*, **2015**, 2, 150219	3.3	9
27	Interpreting melanin-based coloration through deep time: a critical review. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, 20150614	4.4	47
26	Visual navigation in starfish: first evidence for the use of vision and eyes in starfish. *Proceedings of the Royal Society B: Biological Sciences*, **2014**, 281, 20133011	4.4	46
25	Iso-luminance counterillumination drove bioluminescent shark radiation. *Scientific Reports*, **2014**, 4, 4328	4.9	22
24	Computational visual ecology in the pelagic realm. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130038	5.8	33
23	A deepwater fish with ‘lightsabers’—dorsal spine-associated luminescence in a counterilluminating lanternshark. *Scientific Reports*, **2013**, 3, 1308	4.9	30
22	The giant eyes of giant squid are indeed unexpectedly large, but not if used for spotting sperm whales. *BMC Evolutionary Biology*, **2013**, 13, 187	3	3
21	Contrast and rate of light intensity decrease control directional swimming in the box jellyfish Tripedalia cystophora (Cnidaria, Cubomedusae). *Hydrobiologia*, **2013**, 703, 69-77	2.4	6
20	The W-shaped pupil in cuttlefish (Sepia officinalis): functions for improving horizontal vision. *Vision Research*, **2013**, 83, 19-24	2.1	19
19	Eye evolution and its functional basis. *Visual Neuroscience*, **2013**, 30, 5-20	1.7	143
18	A unique advantage for giant eyes in giant squid. *Current Biology*, **2012**, 22, 683-8	6.3	62

17	Animal Eyes **2012**,		424
16	Box jellyfish use terrestrial visual cues for navigation. *Current Biology*, **2011**, 21, 798-803	6.3	77
15	Temporal properties of the lens eyes of the box jellyfish Tripedalia cystophora. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2010**, 196, 213-20	2.3	14
14	Structure and optics of the eyes of the box jellyfish Chiropsella bronzie. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2009**, 195, 557-69	2.3	27
13	The evolution of eyes and visually guided behaviour. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2009**, 364, 2833-47	5.8	144
12	Unique structure and optics of the lesser eyes of the box jellyfish Tripedalia cystophora. *Vision Research*, **2008**, 48, 1061-73	2.1	31
11	Eye evolution: the blurry beginning. *Current Biology*, **2008**, 18, R1096-8	6.3	30
10	A functional analysis of compound eye evolution. *Arthropod Structure and Development*, **2007**, 36, 373-85	1.8	54
9	The spectral sensitivity of the lens eyes of a box jellyfish, Tripedalia cystophora (Conant). *Journal of Experimental Biology*, **2006**, 209, 3758-65	3	39
8	Advanced optics in a jellyfish eye. *Nature*, **2005**, 435, 201-5	50.4	189
7	Eye evolution: a question of genetic promiscuity. *Current Opinion in Neurobiology*, **2004**, 14, 407-14	7.6	56
6	Absorption of white light in photoreceptors. *Vision Research*, **1998**, 38, 195-207	2.1	163
5	Eye ancestry: old genes for new eyes. *Current Biology*, **1996**, 6, 39-42	6.3	90
4	Three unexpected cases of refracting superposition eyes in crustaceans. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **1990**, 167, 71	2.3	18
3	From cornea to retinal image in invertebrate eyes. *Trends in Neurosciences*, **1990**, 13, 55-64	13.3	67
2	Optics and Evolution of the Compound Eye **1989**, 30-73		98
1	Visual Tracking of Box Jellyfish. *Advances in Environmental Engineering and Green Technologies Book Series*,107-122	0.4	0