Thomas W Cronin

List of Publications by Year in descending order

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106 5,038 38 64
papers citations h-index g-index

110 110 110 3514 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Visual system characterization of the obligate bat ectoparasite Trichobius frequens (Diptera:) Tj ETQq1 1 0.78431	4 rgBT	Overlock 10 T
2	Mantis shrimp identify an object by its shape rather than its color during visual recognition. Journal of Experimental Biology, 2021, 224, .	1.7	3
3	Strange eyes, stranger brains: exceptional diversity of optic lobe organization in midwater crustaceans. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210216.	2.6	6
4	Optic lobe organization in stomatopod crustacean species possessing different degrees of retinal complexity. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2020, 206, 247-258.	1.6	3
5	Sensory Ecology: In Sea Snake Vision, One Plus One Makes Three. Current Biology, 2020, 30, R763-R766.	3.9	2
6	Exceptional diversity of opsin expression patterns in <i>Neogonodactylus oerstedii</i> (Stomatopoda) retinas. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8948-8957.	7.1	22
7	Path integration error and adaptable search behaviors in a mantis shrimp. Journal of Experimental Biology, 2020, 223, .	1.7	8
8	Mantis Shrimp Navigate Home Using Celestial and Idiothetic Path Integration. Current Biology, 2020, 30, 1981-1987.e3.	3.9	34
9	Visual metamorphoses in insects and malacostracans: Transitions between an aquatic and terrestrial life. Arthropod Structure and Development, 2020, 59, 100974.	1.4	10
10	Landmark navigation in a mantis shrimp. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201898.	2.6	3
11	Visual Ecology. , 2020, , 66-95.		1
12	Polarisation signals: a new currency for communication. Journal of Experimental Biology, 2019, 222, .	1.7	29
13	Vision in the snapping shrimp <i>Alpheus heterochaelis</i> . Journal of Experimental Biology, 2019, 222,	1.7	8
14	Multichannel spectrometers in animals. Bioinspiration and Biomimetics, 2018, 13, 021001.	2.9	5
15	Sequence, Structure, and Expression of Opsins in the Monochromatic Stomatopod Squilla empusa. Integrative and Comparative Biology, 2018, 58, 386-397.	2.0	6
16	Two visual systems in one eyestalk: The unusual optic lobe metamorphosis in the stomatopod <i>Alima pacifica</i> . Developmental Neurobiology, 2018, 78, 3-14.	3.0	11
17	A different view: sensory drive in the polarized-light realm. Environmental Epigenetics, 2018, 64, 513-523.	1.8	7
18	Scanning eye movements of the stomatopod crustacean, Neogonodactylus oerstedii, in polarized light fields. Marine and Freshwater Behaviour and Physiology, 2018, 51, 263-273.	0.9	2

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19	Behavioural evidence for polychromatic ultraviolet sensitivity in mantis shrimp. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181384.	2.6	15
20	Coping with copepods: do right whales (<i>Eubalaena glacialis </i>) forage visually in dark waters?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160067.	4.0	13
21	Visual predation during springtime foraging of the North Atlantic right whale (Eubalaena glacialis). Marine Mammal Science, 2017, 33, 991-1013.	1.8	6
22	Crustacean Larvaeâ€"Vision in the Plankton. Integrative and Comparative Biology, 2017, 57, 1139-1150.	2.0	15
23	Opsin Expression in the Central Nervous System of the Mantis Shrimp <i>Neogonodactylus oerstedii</i> . Biological Bulletin, 2017, 233, 58-69.	1.8	10
24	Photoreception and vision in the ultraviolet. Journal of Experimental Biology, 2016, 219, 2790-2801.	1.7	126
25	Extraocular, Non-Visual, and Simple Photoreceptors: An Introduction to the Symposium. Integrative and Comparative Biology, 2016, 56, 758-763.	2.0	29
26	Polarization vision seldom increases the sighting distance of silvery fish. Current Biology, 2016, 26, R752-R754.	3.9	14
27	Camouflage: Being Invisible in the Open Ocean. Current Biology, 2016, 26, R1179-R1181.	3.9	11
28	Comment on "Open-ocean fish reveal an omnidirectional solution to camouflage in polarized environments― Science, 2016, 353, 552-552.	12.6	3
29	Dynamic polarization vision in mantis shrimps. Nature Communications, 2016, 7, 12140.	12.8	78
30	A shape-anisotropic reflective polarizer in a stomatopod crustacean. Scientific Reports, 2016, 6, 21744.	3.3	13
31	Diverse Distributions of Extraocular Opsins in Crustaceans, Cephalopods, and Fish. Integrative and Comparative Biology, 2016, 56, 820-833.	2.0	37
32	Variable light environments induce plastic spectral tuning by regional opsin coexpression in the African cichlid fish, <i>Metriaclima zebra</i> . Molecular Ecology, 2015, 24, 4193-4204.	3.9	63
33	An Unexpected Diversity of Photoreceptor Classes in the Longfin Squid, Doryteuthis pealeii. PLoS ONE, 2015, 10, e0135381.	2.5	21
34	Spectral filtering enables trichromatic vision in colorful jumping spiders. Current Biology, 2015, 25, R403-R404.	3.9	82
35	Visual phototransduction components in cephalopod chromatophores suggest dermal photoreception. Journal of Experimental Biology, 2015, 218, 1596-1602.	1.7	65
36	Colour vision in marine organisms. Current Opinion in Neurobiology, 2015, 34, 86-94.	4.2	80

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37	Ultraviolet filters in stomatopod crustaceans: diversity, ecology, and evolution. Journal of Experimental Biology, 2015, 218, 2055-66.	1.7	19
38	Using phylogenetically-informed annotation (PIA) to search for light-interacting genes in transcriptomes from non-model organisms. BMC Bioinformatics, 2014, 15, 350.	2.6	62
39	Out of the blue: the evolution of horizontally polarized signals in <i>Haptosquilla</i> (Crustacea,) Tj ETQq1 1 0.78	34314 rgB1 1.7	Oyerlock 1
40	Filtering and polychromatic vision in mantis shrimps: themes in visible and ultraviolet vision. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130032.	4.0	33
41	Spectral tuning by opsin coexpression in retinal regions that view different parts of the visual field. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141980.	2.6	74
42	Visual pigments, oil droplets, lens, and cornea characterization in the whooping crane (<i>Grus) Tj ETQq0 0 0 rgE</i>	BT <u> Q</u> verloc	k 10 Tf 50 5
43	Biological Sunscreens Tune Polychromatic Ultraviolet Vision in Mantis Shrimp. Current Biology, 2014, 24, 1636-1642.	3.9	61
44	Bioinspired Polarization Imaging Sensors: From Circuits and Optics to Signal Processing Algorithms and Biomedical Applications. Proceedings of the IEEE, 2014, 102, 1450-1469.	21.3	94
45	Polarisation Signals. , 2014, , 407-442.		9
46	The Evolution of Complexity in the Visual Systems of Stomatopods: Insights from Transcriptomics. Integrative and Comparative Biology, 2013, 53, 39-49.	2.0	45
47	Shedding new light on opsin evolution. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3-14.	2.6	206
48	A novel function for a carotenoid: astaxanthin used as a polarizer for visual signalling in a mantis shrimp. Journal of Experimental Biology, 2012, 215, 584-589.	1.7	35
49	Deep-sea and pelagic rod visual pigments identified in the mysticete whales. Visual Neuroscience, 2012, 29, 95-103.	1.0	30
50	Light and vision in the deep-sea benthos: II. Vision in deep-sea crustaceans. Journal of Experimental Biology, 2012, 215, 3344-3353.	1.7	39
51	Visual Optics: Accommodation inÂaÂSplash. Current Biology, 2012, 22, R871-R873.	3.9	14
52	Changes in light-reflecting properties of signalling appendages alter mate choice behaviour in a stomatopod crustacean <i>Haptosquilla trispinosa</i> Physiology, 2011, 44, 1-11.	0.9	38
53	Polarisation vision. Current Biology, 2011, 21, R101-R105.	3.9	53
54	The molecular basis of mechanisms underlying polarization vision. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 627-637.	4.0	67

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55	Patterns and properties of polarized light in air and water. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 619-626.	4.0	90
56	New directions in the detection of polarized light. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 615-616.	4.0	5
57	Evolution of anatomical and physiological specialization in the compound eyes of stomatopod crustaceans. Journal of Experimental Biology, 2010, 213, 3473-3486.	1.7	59
58	Adaptive signaling behavior in stomatopods under varying light conditions. Marine and Freshwater Behaviour and Physiology, 2009, 42, 219-232.	0.9	27
59	Molecular diversity of visual pigments in Stomatopoda (Crustacea). Visual Neuroscience, 2009, 26, 255-265.	1.0	55
60	Spectral sensitivity, visual pigments and screening pigments in two life history stages of the ontogenetic migrator Gnathophausia ingens. Journal of the Marine Biological Association of the United Kingdom, 2009, 89, 119-129.	0.8	22
61	Exceptional Variation on a Common Theme: The Evolution of Crustacean Compound Eyes. Evolution: Education and Outreach, 2008, 1, 463-475.	0.8	25
62	Light habitats and the role of polarized iridescence in the sensory ecology of neotropical nymphalid butterflies (Lepidoptera: Nymphalidae). Journal of Experimental Biology, 2007, 210, 788-799.	1.7	56
63	Spectral and spatial properties of polarized light reflections from the arms of squid (<i>Loligo) Tj ETQq1 1 0.784333624-3635.</i>	14 rgBT /O 1.7	verlock 10 48
64	Spectral sensitivity of four species of fiddler crabs (Uca pugnax, Uca pugilator, Uca vomeris and Uca) Tj ETQq0 0 0 447-453.	rgBT /Ove 1.7	erlock 10 Tf 44
65	Stomatopod eye structure and function: A review. Arthropod Structure and Development, 2007, 36, 420-448.	1.4	116
66	Anatomical and physiological evidence for polarisation vision in the nocturnal bee Megalopta genalis. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2007, 193, 591-600.	1.6	38
67	Head-bobbing behavior in walking whooping cranes (Grus americana) and sandhill cranes (Grus) Tj ETQq $1\ 1\ 0.784$	314 rgBT / 1.2	/Qverlock 10
68	Celestial polarization patterns during twilight. Applied Optics, 2006, 45, 5582.	2.1	88
69	Evolutionary variation in the expression of phenotypically plastic color vision in Caribbean mantis shrimps, genus Neogonodactylus. Marine Biology, 2006, 150, 213-220.	1.5	19
70	Stomatopods. Current Biology, 2006, 16, R235-R236.	3.9	4
71	Biological polarized light reflectors in stomatopod crustaceans. , 2005, , .		9
72	Head-bobbing behavior in foraging whooping cranes favors visual fixation. Current Biology, 2005, 15, R243-R244.	3.9	13

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73	Visual pigment absorbance and spectral sensitivity of the Mysis relicta species group (Crustacea,) Tj ETQq1 1 0.78 Sensory, Neural, and Behavioral Physiology, 2005, 191, 1087-1097.	4314 rgB1 1.6	Overlock 32
74	Variation in Stomatopod <i>(Gonodactylus smithii)</i> Color Signal Design Associated with Organismal Condition and Depth. Brain, Behavior and Evolution, 2005, 66, 99-113.	1.7	18
75	Transmission of linearly polarized light in seawater: implications for polarization signaling. Journal of Experimental Biology, 2004, 207, 3619-3628.	1.7	78
76	Interspecific and intraspecific views of color signals in the strawberry poison frog <i>Dendrobates pumilio</i> . Journal of Experimental Biology, 2004, 207, 2471-2485.	1.7	469
77	Polarization Vision and Its Role in Biological Signaling. Integrative and Comparative Biology, 2003, 43, 549-558.	2.0	186
78	Adaptive color vision in Pullosquilla litoralis (Stomatopoda,Lysiosquilloidea) associated with spectral and intensity changes in light environment. Journal of Experimental Biology, 2003, 206, 373-379.	1.7	24
79	Visual Adaptations in Crustaceans: Chromatic, Developmental, and Temporal Aspects., 2003,, 343-372.		18
80	Polarization signals in the marine environment., 2003, 5158, 85.		19
81	Tuning of photoreceptor function in three mantis shrimp species that inhabit a range of depths. I. Visual pigments. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 179-186.	1.6	25
82	Tuning of photoreceptor function in three mantis shrimp species that inhabit a range of depths. II. Filter pigments. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 187-197.	1.6	34
83	Spectral Sensitivity in Crustacean Eyes. , 2002, , 499-511.		12
84	Parallel Processing and Image Analysis in the Eyes of Mantis Shrimps. Biological Bulletin, 2001, 200, 177-183.	1.8	41
85	NO EVIDENCE OF ACCOMMODATION IN THE EYES OF THE BOTTLENOSE DOLPHIN, TURSIOPS TRUNCATUS. Marine Mammal Science, 2001, 17, 508-525.	1.8	9
86	Tunable colour vision in a mantis shrimp. Nature, 2001, 411, 547-548.	27.8	82
87	Ontogeny of Vision in Marine Crustaceans. American Zoologist, 2001, 41, 1098-1107.	0.7	8
88	Ontogeny of Vision in Marine Crustaceans 1. American Zoologist, 2001, 41, 1098-1107.	0.7	33
89	The linearly polarized light field in clear, tropical marine waters: spatial and temporal variation of light intensity, degree of polarization and e-vector angle. Journal of Experimental Biology, 2001, 204, 2461-2467.	1.7	99
90	Spectral Tuning of Avian Violet- and Ultraviolet-Sensitive Visual Pigments. Biochemistry, 2000, 39, 7895-7901.	2.5	129

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91	Eye Design and Color Signaling in a Stomatopod Crustacean <i>Gonodactylus smithii</i> Brain, Behavior and Evolution, 2000, 56, 107-122.	1.7	38
92	Spectral tuning of dichromats to natural scenes. Vision Research, 2000, 40, 3257-3271.	1.4	67
93	Spectral tuning and the visual ecology of mantis shrimps. Philosophical Transactions of the Royal Society B: Biological Sciences, 2000, 355, 1263-1267.	4.0	62
94	Behavioural evidence for polarisation vision in stomatopods reveals a potential channel for communication. Current Biology, 1999, 9, 755-758.	3.9	109
95	Stomatopod photoreceptor spectral tuning as an adaptation for colour constancy in water. Vision Research, 1997, 37, 3299-3309.	1.4	54
96	Compound eyes and ocular pigments of crustacean larvae (Stomatopoda and decapoda, brachyura). Marine and Freshwater Behaviour and Physiology, 1995, 26, 219-231.	0.9	29
97	The intrarhabdomal filters in the retinas of mantis shrimps. Vision Research, 1994, 34, 279-291.	1.4	47
98	Ultraviolet photoreception in mantis shrimp. Vision Research, 1994, 34, 1443-1452.	1.4	62
99	The retinoids of seven species of mantis shrimp. Visual Neuroscience, 1993, 10, 915-920.	1.0	23
100	Regional Specialization for Control of Ocular Movements in the Compound Eyes of a Stomatopod Crustacean. Journal of Experimental Biology, 1992, 171, 373-393.	1.7	9
101	A retina with at least ten spectral types of photoreceptors in a mantis shrimp. Nature, 1989, 339, 137-140.	27.8	183
102	Modification of spectral sensitivities by screening pigments in the compound eyes of twilight-active fireflies (Coleoptera: Lampyridae). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1988, 162, 23-33.	1.6	36
103	Ocular Tracking of Rapidly Moving Visual Targets by Stomatopod Crustaceans. Journal of Experimental Biology, 1988, 138, 155-179.	1.7	37
104	Optical Design and Evolutionary Adaptation in Crustacean Compound Eyes. Journal of Crustacean Biology, 1986, 6, 1.	0.8	54
105	The visual pigment of a stomatopod crustacean, Squilla empusa. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1985, 156, 679-687.	1.6	44
106	QUANTUM EFFICIENCY AND PHOTOSENSITIVITY OF THE RHODOPSIN ⇌ METARHODOPSIN CONVERSION IN CRAYFISH PHOTORECEPTORS. Photochemistry and Photobiology, 1982, 36, 447-454.	2.5	42