

# Jan M Hemmi

## List of Publications by Year in descending order

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Version: 2024-02-01

82  
papers

2,892  
citations

117453

34  
h-index

189595

50  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2199  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiddler crab electroretinograms reveal vast circadian shifts in visual sensitivity and temporal summation in dim light. <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	5
2	Energy conservation characterizes sleep in sharks. <i>Biology Letters</i> , 2022, 18, 20210259.	1.0	13
3	Nocturnal <i>Myrmecia</i> ants have faster temporal resolution at low light levels but lower adaptability compared to diurnal relatives. <i>IScience</i> , 2022, 25, 104134.	1.9	3
4	Enhanced short-wavelength sensitivity in the blue-tongued skink <i>Tiliqua rugosa</i> . <i>Journal of Experimental Biology</i> , 2022, 225, .	0.8	1
5	Behavioural and neural responses of crabs show evidence for selective attention in predator avoidance. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
6	Behavioural sleep in two species of buccal pumping sharks ( <i>Heterodontus portusjacksoni</i> and <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	1.7	13
7	Visual opsin expression and morphological characterization of retinal photoreceptors in the pouched lamprey ( <i>Geotria australis</i> , Gray). <i>Journal of Comparative Neurology</i> , 2021, 529, 2265-2282.	0.9	4
8	Extraordinary eyes reveal hidden diversity within the holopelagic genus <i>Paraphronima</i> (Amphipoda: <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>	0.6	2
9	A shark's eye view: testing the "mistaken identity theory" behind shark bites on humans. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210533.	1.5	7
10	A new method for mapping spatial resolution in compound eyes suggests two visual streaks in fiddler crabs. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	16
11	Retinal topography and microhabitat diversity in a group of dragon lizards. <i>Journal of Comparative Neurology</i> , 2020, 528, 542-558.	0.9	3
12	Photoreceptors and diurnal variation in spectral sensitivity in the fiddler crab <i>Gelasimus dampieri</i> . <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	11
13	Evidence of predictive selective attention in fiddler crabs during escape in the natural environment. <i>Journal of Experimental Biology</i> , 2020, 223, .	0.8	8
14	Countershading enhances camouflage by reducing prey contrast. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200477.	1.2	9
15	Diverse Activity Rhythms in Sharks (Elasmobranchii). <i>Journal of Biological Rhythms</i> , 2020, 35, 476-488.	1.4	10
16	Differential responses to increasing numbers of mild traumatic brain injury in a rodent closed-head injury model. <i>Journal of Neurochemistry</i> , 2019, 149, 660-678.	2.1	20
17	Evidence for Sleep in Sharks and Rays: Behavioural, Physiological, and Evolutionary Considerations. <i>Brain, Behavior and Evolution</i> , 2019, 94, 37-50.	0.9	22
18	Offshore Oil and Gas Platforms as Novel Ecosystems: A Global Perspective. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	56

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19	Crabs and Their Visual World. , 2019, , 201-212.		0
20	Seminal fluid compromises visual perception in honeybee queens reducing their survival during additional mating flights. ELife, 2019, 8, .	2.8	21
21	Effects of auditory and visual stimuli on shark feeding behaviour: the disco effect. Marine Biology, 2018, 165, 1.	0.7	17
22	Retinal temporal resolution and contrast sensitivity in the parasitic lamprey <i>Mordacia mordax</i> and its non-parasitic derivative <i>M. praecox</i> . Journal of Experimental Biology, 2017, 220, 1245-1255.	0.8	10
23	Regional differences in the preferred e-vector orientation of honeybee ocellar photoreceptors. Journal of Experimental Biology, 2017, 220, 1701-1708.	0.8	12
24	Electrophysiological measures of temporal resolution, contrast sensitivity and spatial resolving power in sharks. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2017, 203, 197-210.	0.7	25
25	Functional diversity of the lateral line system among populations of a native Australian freshwater fish. Journal of Experimental Biology, 2017, 220, 2265-2276.	0.8	4
26	Predator Evasion by a Robocrab. Lecture Notes in Computer Science, 2017, , 428-439.	1.0	1
27	Spatial resolving power and spectral sensitivity of the saltwater crocodile, <i>Crocodylus porosus</i> , and the freshwater crocodile, <i>Crocodylus johnstoni</i> . Journal of Experimental Biology, 2016, 219, 1394-1404.	0.8	40
28	Visual resolution and contrast sensitivity in two benthic sharks. Journal of Experimental Biology, 2016, 219, 3971-3980.	0.8	18
29	How Wasps Acquire and Use Views for Homing. Current Biology, 2016, 26, 470-482.	1.8	90
30	It is not just size that matters: shark cruising speeds are species-specific. Marine Biology, 2015, 162, 1307-1318.	0.7	38
31	Three spectrally distinct photoreceptors in diurnal and nocturnal Australian ants. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150673.	1.2	33
32	UV-B light contributes directly to the synthesis of chiloglottone floral volatiles. Annals of Botany, 2015, 115, 693-703.	1.4	14
33	Target Detection Is Enhanced by Polarization Vision in a Fiddler Crab. Current Biology, 2015, 25, 3069-3073.	1.8	41
34	Differences in the escape response of a grapsid crab in the field and in the laboratory. Journal of Experimental Biology, 2015, 218, 3499-507.	0.8	9
35	Dichromatic Colour Vision in Wallabies as Characterised by Three Behavioural Paradigms. PLoS ONE, 2014, 9, e86531.	1.1	5
36	Photoreceptor topography and spectral sensitivity in the common brushtail possum ( <i>Trichosurus</i> )		

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37	A Comparison of Spatial Analysis Methods for the Construction of Topographic Maps of Retinal Cell Density. PLoS ONE, 2014, 9, e93485.	1.1	45
38	Flicker is part of a multi-cue response criterion in fiddler crab predator avoidance. Journal of Experimental Biology, 2013, 216, 1219-24.	0.8	12
39	Changes to mitochondrial ultrastructure in optic nerve vulnerable to secondary degeneration in vivo are limited by irradiation at 670Ånm. BMC Neuroscience, 2013, 14, 98.	0.8	25
40	High e-vector acuity in the polarisation vision system of the fiddler crab <i>Uca vomeris</i> . Journal of Experimental Biology, 2012, 215, 2128-2134.	0.8	48
41	Ocular Anatomy and Retinal Photoreceptors in a Skink, the Sleepy Lizard ( <i>Tiliqua rugosa</i> ). Anatomical Record, 2012, 295, 1727-1735.	0.8	24
42	The neuroethology of escape in crabs: from sensory ecology to neurons and back. Current Opinion in Neurobiology, 2012, 22, 194-200.	2.0	47
43	Polarised skylight and the landmark panorama provide night-active bull ants with compass information during route following. Journal of Experimental Biology, 2011, 214, 363-370.	0.8	102
44	Caste-specific visual adaptations to distinct daily activity schedules in Australian <i>Myrmecia</i> ants. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1141-1149.	1.2	68
45	Natural visual cues eliciting predator avoidance in fiddler crabs. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 3584-3592.	1.2	39
46	Habituation under natural conditions: model predators are distinguished by approach direction. Journal of Experimental Biology, 2011, 214, 4209-4216.	0.8	39
47	Diversity of Color Vision: Not All Australian Marsupials Are Trichromatic. PLoS ONE, 2010, 5, e14231.	1.1	22
48	The twilight zone: ambient light levels trigger activity in primitive ants. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1531-1538.	1.2	62
49	Visual gaze control during peering flight manoeuvres in honeybees. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1209-1217.	1.2	57
50	A multi-stage anti-predator response increases information on predation risk. Journal of Experimental Biology, 2010, 213, 1484-1489.	0.8	48
51	Visually Guided Behavior. , 2009, , 369-380.		3
52	Topography of vision and behaviour. Journal of Experimental Biology, 2009, 212, 3522-3532.	0.8	62
53	High stimulus specificity characterizes anti-predator habituation under natural conditions. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4381-4388.	1.2	53
54	Variability of a dynamic visual signal: the fiddler crab claw-waving display. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2009, 195, 55-67.	0.7	34

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55	Image motion environments: background noise for movement-based animal signals. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 441-456.	0.7	41
56	Courtship herding in the fiddler crab <i>Uca elegans</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 1053-1061.	0.7	15
57	Claw waving display changes with receiver distance in fiddler crabs, <i>Uca perplexa</i> . <i>Animal Behaviour</i> , 2008, 75, 1015-1022.	0.8	70
58	Courtship herding in the fiddler crab <i>Uca elegans</i> : tracking control system. <i>Animal Behaviour</i> , 2008, 76, 1259-1265.	0.8	6
59	Vision and the organization of behaviour. <i>Current Biology</i> , 2008, 18, R320-R323.	1.8	50
60	Colouration and Colour Changes of the Fiddler Crab, <i>Uca capricornis</i> : A Descriptive Study. <i>PLoS ONE</i> , 2008, 3, e1629.	1.1	51
61	Signaling against the Wind: Modifying Motion-Signal Structure in Response to Increased Noise. <i>Current Biology</i> , 2007, 17, 1231-1234.	1.8	98
62	Differences in context and function of two distinct waving displays in the fiddler crab, <i>Uca perplexa</i> (Decapoda: Ocypodidae). <i>Behavioral Ecology and Sociobiology</i> , 2007, 62, 137-148.	0.6	32
63	The visual ecology of fiddler crabs. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2006, 192, 1-25.	0.7	195
64	Fiddler crabs. <i>Current Biology</i> , 2006, 16, R40-R41.	1.8	36
65	Honeybee odometry and scent guidance. <i>Journal of Experimental Biology</i> , 2006, 209, 1367-1375.	0.8	7
66	The variable colours of the fiddler crab <i>Uca vomeris</i> and their relation to background and predation. <i>Journal of Experimental Biology</i> , 2006, 209, 4140-4153.	0.8	82
67	Visually mediated species and neighbour recognition in fiddler crabs ( <i>Uca mjoebergi</i> and <i>Uca</i> ) <a href="#">Tj ETQq1 1 0.784314 rgBT /Overlock 104</a>	1.25	104
68	Predator avoidance in fiddler crabs: 1. Escape decisions in relation to the risk of predation. <i>Animal Behaviour</i> , 2005, 69, 603-614.	0.8	88
69	Predator avoidance in fiddler crabs: 2. The visual cues. <i>Animal Behaviour</i> , 2005, 69, 615-625.	0.8	76
70	Interactions of visual odometry and landmark guidance during food search in honeybees. <i>Journal of Experimental Biology</i> , 2005, 208, 4123-4135.	0.8	25
71	Sensory biology: linking the internal and external ecologies of marine organisms. <i>Marine Ecology - Progress Series</i> , 2005, 287, 263-307.	0.9	33
72	Robust judgement of inter-object distance by an arthropod. <i>Nature</i> , 2003, 421, 160-163.	13.7	60

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73	Burrow surveillance in fiddler crabs II. The sensory cues. <i>Journal of Experimental Biology</i> , 2003, 206, 3951-3961.	0.8	46
74	Burrow surveillance in fiddler crabs I. Description of behaviour. <i>Journal of Experimental Biology</i> , 2003, 206, 3935-3950.	0.8	50
75	Color opponent retinal ganglion cells in the tammar wallaby retina. <i>Journal of Vision</i> , 2002, 2, 3.	0.1	21
76	Spectral sensitivity of photoreceptors in an Australian marsupial, the tammar wallaby ( <i>Macropus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.7	25
77	Dichromatic colour vision in an Australian marsupial, the tammar wallaby. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1999, 185, 509-515.	0.7	39
78	Distribution of photoreceptor types in the retina of a marsupial, the tammar wallaby ( <i>Macropus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	0.5	66
79	Visual acuity, contrast sensitivity and retinal magnification in a marsupial, the tammar wallaby () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 10 Behavioral Physiology, 1998, 183, 379-387.	0.7	26
80	Evidence for spatial aliasing effects in the Y-like cells of the magnocellular visual pathway. <i>Vision Research</i> , 1998, 38, 1843-1859.	0.7	58
81	Foraging strategies of long-tailed macaques, <i>Macaca fascicularis</i> : directional extrapolation. <i>Animal Behaviour</i> , 1995, 49, 457-464.	0.8	22
82	Sexual Conflict in the Dung Fly <i>Sepsis cynipsea</i> . <i>Functional Ecology</i> , 1992, 6, 649.	1.7	88