

# 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  | 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       |
| 2  | Visually mediated species and neighbour recognition in fiddler crabs ( <i>Uca mjoebergi</i> and <i>Uca</i> )  | 1.2  | 104       |
| 3  | Polarised skylight and the landmark panorama provide night-active bull ants with compass information during route following. <i>Journal of Experimental Biology</i> , 2011, 214, 363-370.         | 0.8  | 102       |
| 4  | Signaling against the Wind: Modifying Motion-Signal Structure in Response to Increased Noise. <i>Current Biology</i> , 2007, 17, 1231-1234.   | 1.8  | 98        |
| 5  | How Wasps Acquire and Use Views for Homing. <i>Current Biology</i> , 2016, 26, 470-482.   | 1.8  | 90        |
| 6  | Sexual Conflict in the Dung Fly <i>Sepsis cynipsea</i> . <i>Functional Ecology</i> , 1992, 6, 649.  | 1.7  | 88        |
| 7  | 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        |
| 8  | 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        |
| 9  | Predator avoidance in fiddler crabs: 2. The visual cues. <i>Animal Behaviour</i> , 2005, 69, 615-625.   | 0.8  | 76        |
| 10 | 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        |
| 11 | Caste-specific visual adaptations to distinct daily activity schedules in Australian <i>Myrmecia</i> ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1141-1149. | 1.2  | 68        |
| 12 | Distribution of photoreceptor types in the retina of a marsupial, the tammar wallaby ( <i>Macropus</i> )  | 0.5  | 66        |
| 13 | Topography of vision and behaviour. <i>Journal of Experimental Biology</i> , 2009, 212, 3522-3532.  | 0.8  | 62        |
| 14 | The twilight zone: ambient light levels trigger activity in primitive ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1531-1538.                                | 1.2  | 62        |
| 15 | Robust judgement of inter-object distance by an arthropod. <i>Nature</i> , 2003, 421, 160-163.  | 13.7 | 60        |
| 16 | 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        |
| 17 | Visual gaze control during peering flight manoeuvres in honeybees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1209-1217.   | 1.2  | 57        |
| 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 | High stimulus specificity characterizes anti-predator habituation under natural conditions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4381-4388.  | 1.2 | 53        |
| 20 | 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        |
| 21 | Burrow surveillance in fiddler crabs I. Description of behaviour. <i>Journal of Experimental Biology</i> , 2003, 206, 3935-3950.  | 0.8 | 50        |
| 22 | Vision and the organization of behaviour. <i>Current Biology</i> , 2008, 18, R320-R323.   | 1.8 | 50        |
| 23 | A multi-stage anti-predator response increases information on predation risk. <i>Journal of Experimental Biology</i> , 2010, 213, 1484-1489.  | 0.8 | 48        |
| 24 | High e-vector acuity in the polarisation vision system of the fiddler crab <i>Uca vomeris</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 2128-2134.  | 0.8 | 48        |
| 25 | The neuroethology of escape in crabs: from sensory ecology to neurons and back. <i>Current Opinion in Neurobiology</i> , 2012, 22, 194-200.   | 2.0 | 47        |
| 26 | Burrow surveillance in fiddler crabs II. The sensory cues. <i>Journal of Experimental Biology</i> , 2003, 206, 3951-3961.   | 0.8 | 46        |
| 27 | A Comparison of Spatial Analysis Methods for the Construction of Topographic Maps of Retinal Cell Density. <i>PLoS ONE</i> , 2014, 9, e93485.   | 1.1 | 45        |
| 28 | 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        |
| 29 | Target Detection Is Enhanced by Polarization Vision in a Fiddler Crab. <i>Current Biology</i> , 2015, 25, 3069-3073.  | 1.8 | 41        |
| 30 | Spatial resolving power and spectral sensitivity of the saltwater crocodile, <i>Crocodylus porosus</i> , and the freshwater crocodile, <i>Crocodylus johnstoni</i> . <i>Journal of Experimental Biology</i> , 2016, 219, 1394-1404. | 0.8 | 40        |
| 31 | 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        |
| 32 | Natural visual cues eliciting predator avoidance in fiddler crabs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3584-3592.   | 1.2 | 39        |
| 33 | Habituation under natural conditions: model predators are distinguished by approach direction. <i>Journal of Experimental Biology</i> , 2011, 214, 4209-4216.   | 0.8 | 39        |
| 34 | It is not just size that matters: shark cruising speeds are species-specific. <i>Marine Biology</i> , 2015, 162, 1307-1318.   | 0.7 | 38        |
| 35 | Fiddler crabs. <i>Current Biology</i> , 2006, 16, R40-R41.  | 1.8 | 36        |
| 36 | Variability of a dynamic visual signal: the fiddler crab claw-waving display. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009, 195, 55-67.                             | 0.7 | 34        |

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|----|---|-----|-----------|
| 37 | Three spectrally distinct photoreceptors in diurnal and nocturnal Australian ants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150673.  | 1.2 | 33        |
| 38 | Sensory biology: linking the internal and external ecologies of marine organisms. <i>Marine Ecology - Progress Series</i> , 2005, 287, 263-307.   | 0.9 | 33        |
| 39 | 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        |
| 40 | Visual acuity, contrast sensitivity and retinal magnification in a marsupial, the tammar wallaby ( <i>Macropus eboracensis</i> ). <i>Behavioral Physiology</i> , 1998, 183, 379-387.  | 0.7 | 26        |
| 41 | Spectral sensitivity of photoreceptors in an Australian marsupial, the tammar wallaby ( <i>Macropus eboracensis</i> ). <i>Behavioral Physiology</i> , 1998, 183, 379-387.   | 0.7 | 25        |
| 42 | 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        |
| 43 | Changes to mitochondrial ultrastructure in optic nerve vulnerable to secondary degeneration in vivo are limited by irradiation at 670 nm. <i>BMC Neuroscience</i> , 2013, 14, 98.   | 0.8 | 25        |
| 44 | Electrophysiological measures of temporal resolution, contrast sensitivity and spatial resolving power in sharks. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 197-210. | 0.7 | 25        |
| 45 | Ocular Anatomy and Retinal Photoreceptors in a Skink, the Sleepy Lizard ( <i>Tiliqua rugosa</i> ). <i>Anatomical Record</i> , 2012, 295, 1727-1735.   | 0.8 | 24        |
| 46 | Foraging strategies of long-tailed macaques, <i>Macaca fascicularis</i> : directional extrapolation. <i>Animal Behaviour</i> , 1995, 49, 457-464.   | 0.8 | 22        |
| 47 | Diversity of Color Vision: Not All Australian Marsupials Are Trichromatic. <i>PLoS ONE</i> , 2010, 5, e14231.   | 1.1 | 22        |
| 48 | 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        |
| 49 | Color opponent retinal ganglion cells in the tammar wallaby retina. <i>Journal of Vision</i> , 2002, 2, 3.  | 0.1 | 21        |
| 50 | Seminal fluid compromises visual perception in honeybee queens reducing their survival during additional mating flights. <i>eLife</i> , 2019, 8, .  | 2.8 | 21        |
| 51 | 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        |
| 52 | Visual resolution and contrast sensitivity in two benthic sharks. <i>Journal of Experimental Biology</i> , 2016, 219, 3971-3980.  | 0.8 | 18        |
| 53 | Effects of auditory and visual stimuli on shark feeding behaviour: the disco effect. <i>Marine Biology</i> , 2018, 165, 1.  | 0.7 | 17        |
| 54 | 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        |

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|----|--|-----|-----------|
| 55 | 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        |
| 56 | UV-B light contributes directly to the synthesis of chiloglottone floral volatiles. <i>Annals of Botany</i> , 2015, 115, 693-703.  | 1.4 | 14        |
| 57 | Behavioural sleep in two species of buccal pumping sharks ( <i>Heterodontus portusjacksoni</i> and <i>Tj ETQq1 1 0,784314 rBT /Over</i>  | 1.7 | 13        |
| 58 | Energy conservation characterizes sleep in sharks. <i>Biology Letters</i> , 2022, 18, 20210259.  | 1.0 | 13        |
| 59 | Flicker is part of a multi-cue response criterion in fiddler crab predator avoidance. <i>Journal of Experimental Biology</i> , 2013, 216, 1219-24.   | 0.8 | 12        |
| 60 | Regional differences in the preferred e-vector orientation of honeybee ocellar photoreceptors. <i>Journal of Experimental Biology</i> , 2017, 220, 1701-1708.  | 0.8 | 12        |
| 61 | 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        |
| 62 | Retinal temporal resolution and contrast sensitivity in the parasitic lamprey <i>Mordacia mordax</i> and its non-parasitic derivative <i>Mordacia praecox</i> . <i>Journal of Experimental Biology</i> , 2017, 220, 1245-1255. | 0.8 | 10        |
| 63 | Diverse Activity Rhythms in Sharks (Elasmobranchii). <i>Journal of Biological Rhythms</i> , 2020, 35, 476-488.   | 1.4 | 10        |
| 64 | Differences in the escape response of a grapsid crab in the field and in the laboratory. <i>Journal of Experimental Biology</i> , 2015, 218, 3499-507.   | 0.8 | 9         |
| 65 | Countershading enhances camouflage by reducing prey contrast. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200477.  | 1.2 | 9         |
| 66 | 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         |
| 67 | Honeybee odometry and scent guidance. <i>Journal of Experimental Biology</i> , 2006, 209, 1367-1375.   | 0.8 | 7         |
| 68 | 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         |
| 69 | Courtship herding in the fiddler crab <i>Uca elegans</i> : tracking control system. <i>Animal Behaviour</i> , 2008, 76, 1259-1265.   | 0.8 | 6         |
| 70 | Photoreceptor topography and spectral sensitivity in the common brushtail possum ( <i>Trichosurus</i> ) Tj ETQq0 0 0 rBT /Overlock 10 Tf   | 0.9 | 6         |
| 71 | Dichromatic Colour Vision in Wallabies as Characterised by Three Behavioural Paradigms. <i>PLoS ONE</i> , 2014, 9, e86531.   | 1.1 | 5         |
| 72 | 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         |

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|----|---|-----|-----------|
| 73 | Functional diversity of the lateral line system among populations of a native Australian freshwater fish. <i>Journal of Experimental Biology</i> , 2017, 220, 2265-2276.  | 0.8 | 4         |
| 74 | 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         |
| 75 | Visually Guided Behavior. , 2009, , 369-380.  |     | 3         |
| 76 | Retinal topography and microhabitat diversity in a group of dragon lizards. <i>Journal of Comparative Neurology</i> , 2020, 528, 542-558.   | 0.9 | 3         |
| 77 | 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         |
| 78 | Behavioural and neural responses of crabs show evidence for selective attention in predator avoidance. <i>Scientific Reports</i> , 2022, 12, .  | 1.6 | 3         |
| 79 | Extraordinary eyes reveal hidden diversity within the holopelagic genus <i>Paraphronima</i> (Amphipoda:) Tj ETQq1 1 0.784314 rgBT /Overl  | 0.6 | 2         |
| 80 | Predator Evasion by a Robocrab. <i>Lecture Notes in Computer Science</i> , 2017, , 428-439.   | 1.0 | 1         |
| 81 | Enhanced short-wavelength sensitivity in the blue-tongued skink <i>Tiliqua rugosa</i> . <i>Journal of Experimental Biology</i> , 2022, 225, .   | 0.8 | 1         |
| 82 | Crabs and Their Visual World. , 2019, , 201-212.  |     | 0         |