

Almut Kelber

List of Publications by Year in descending order

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Version: 2024-02-01

136
papers

7,279
citations

57752

44
h-index

69246

77
g-index

143
all docs

143
docs citations

143
times ranked

4542
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial resolution and sensitivity of the eyes of the stingless bee, <i>Tetragonula iridipennis</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2022, 208, 225-238.	1.6	3
2	Achromatic Cues Are Important for Flower Visibility to Hawkmoths and Other Insects. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	10
3	Falconiformes Sensory Systems. , 2022, , 2619-2623.		0
4	Accipitriformes Sensory Systems. , 2022, , 24-29.		0
5	Evolution of Insect Color Vision: From Spectral Sensitivity to Visual Ecology. <i>Annual Review of Entomology</i> , 2021, 66, 435-461.	11.8	174
6	Falconiformes Sensory Systems. , 2021, , 1-6.		0
7	Accipitriformes Sensory Systems. , 2021, , 1-6.		0
8	Lens and cornea limit UV vision of birds – a phylogenetic perspective. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	9
9	Visual acuity of budgerigars for moving targets. <i>Biology Open</i> , 2021, 10, .	1.2	2
10	Light, flight and the night: effect of ambient light and moon phase on flight activity of pteropodid bats. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2021, 207, 59-68.	1.6	8
11	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.	1.6	4
12	Chicken colour discrimination depends on background colour. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	2
13	The Pupillary Response of the Common Octopus (<i>Octopus vulgaris</i>). <i>Frontiers in Physiology</i> , 2020, 11, 1112.	2.8	3
14	Visual adaptations of diurnal and nocturnal raptors. <i>Seminars in Cell and Developmental Biology</i> , 2020, 106, 116-126.	5.0	47
15	Nocturnal Bees Feed on Diurnal Leftovers and Pay the Price of Day – Night Lifestyle Transition. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	11
16	Inter-individual differences in foveal shape in a scavenging raptor, the black kite <i>Milvus migrans</i> . <i>Scientific Reports</i> , 2020, 10, 6133.	3.3	11
17	Lens transmittance shapes ultraviolet sensitivity in the eyes of frogs from diverse ecological and phylogenetic backgrounds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20192253.	2.6	13
18	Bird colour vision – from cones to perception. <i>Current Opinion in Behavioral Sciences</i> , 2019, 30, 34-40.	3.9	43

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19	Differential fitness effects of moonlight on plumage colour morphs in barn owls. <i>Nature Ecology and Evolution</i> , 2019, 3, 1331-1340.	7.8	43
20	Humidity-dependent colour change in the green forester moth, <i>Adscita statice</i> . <i>Biology Letters</i> , 2019, 15, 20190516.	2.3	7
21	Differences in ocular media transmittance among classical frog model species and its impact on visual sensitivity. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	6
22	Infrared Imaging: A Motion Detection Circuit for Rattlesnake Thermal Vision. <i>Current Biology</i> , 2019, 29, R403-R405.	3.9	1
23	Single target acuity is not higher than grating acuity in a bird, the budgerigar. <i>Vision Research</i> , 2019, 160, 37-42.	1.4	8
24	Pterin-pigmented nanospheres create the colours of the polymorphic damselfly <i>Ischnura elegans</i> . <i>Journal of the Royal Society Interface</i> , 2019, 16, 20180785.	3.4	31
25	Fuelling on the wing: sensory ecology of hawkmoth foraging. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2019, 205, 399-413.	1.6	36
26	Owls lack UV-sensitive cone opsin and red oil droplets, but see UV light at night: Retinal transcriptomes and ocular media transmittance. <i>Vision Research</i> , 2019, 158, 109-119.	1.4	32
27	Innate colour preferences of a hawkmoth depend on visual context. <i>Biology Letters</i> , 2019, 15, 20180886.	2.3	31
28	Linking brain and behaviour in animal navigation: navigation from genes to maps. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	4
29	How fast can raptors see?. <i>Journal of Experimental Biology</i> , 2019, 223, .	1.7	28
30	Spatial Vision and Visually Guided Behavior in Apidae. <i>Insects</i> , 2019, 10, 418.	2.2	20
31	The Eye of the Common Octopus (<i>Octopus vulgaris</i>). <i>Frontiers in Physiology</i> , 2019, 10, 1637.	2.8	30
32	Vision: Rods See in Bright Light. <i>Current Biology</i> , 2018, 28, R364-R366.	3.9	16
33	Models for a colorful reality?: a response to comments on Olsson et al.. <i>Behavioral Ecology</i> , 2018, 29, 287-288.	2.2	3
34	An aposematic colour polymorphic moth seen through the eyes of conspecifics and predators – Sensitivity and colour discrimination in a tiger moth. <i>Functional Ecology</i> , 2018, 32, 1797-1809.	3.6	31
35	Chromatic and achromatic vision: parameter choice and limitations for reliable model predictions. <i>Behavioral Ecology</i> , 2018, 29, 273-282.	2.2	150
36	Development of the Visual System in a Burrow-Nesting Seabird: Leach's Storm Petrel. <i>Brain, Behavior and Evolution</i> , 2018, 91, 4-16.	1.7	13

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37	High resolution of colour vision, but low contrast sensitivity in a diurnal raptor. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181036.	2.6	35
38	Birds perceive colours in categories. <i>Nature</i> , 2018, 560, 311-312.	27.8	3
39	Differences in spatial resolution and contrast sensitivity of flight control in the honeybees <i>Apis cerana</i> and <i>Apis mellifera</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	16
40	The roles of vision and antennal mechanoreception in hawkmoth flight control. <i>ELife</i> , 2018, 7, .	6.0	27
41	Colour spaces in ecology and evolutionary biology. <i>Biological Reviews</i> , 2017, 92, 292-315.	10.4	142
42	Specialized photoreceptor composition in the raptor fovea. <i>Journal of Comparative Neurology</i> , 2017, 525, 2152-2163.	1.6	38
43	The dual rod system of amphibians supports colour discrimination at the absolute visual threshold. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160066.	4.0	72
44	Thresholds and noise limitations of colour vision in dim light. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160065.	4.0	98
45	Coevolution of coloration and colour vision?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160338.	4.0	41
46	Relative colour cues improve colour constancy in birds. <i>Journal of Experimental Biology</i> , 2017, 220, 1797-1802.	1.7	2
47	Eye Size, Fovea, and Foraging Ecology in Accipitriform Raptors. <i>Brain, Behavior and Evolution</i> , 2017, 90, 232-242.	1.7	34
48	The biology of color. <i>Science</i> , 2017, 357, .	12.6	509
49	High contrast sensitivity for visually guided flight control in bumblebees. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 999-1006.	1.6	15
50	Spatial summation improves bird color vision in low light intensities. <i>Vision Research</i> , 2017, 130, 1-8.	1.4	9
51	The flicker fusion frequency of budgerigars (<i>Melopsittacus undulatus</i>) revisited. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 15-22.	1.6	18
52	Visual Adaptations for Mate Detection in the Male Carpenter Bee <i>Xylocopa tenuiscapa</i> . <i>PLoS ONE</i> , 2017, 12, e0168452.	2.5	23
53	Spatial Vision in <i>Bombus terrestris</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 17.	2.0	25
54	Evolution of Color Vision. , 2016, , 317-354.		2

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55	Differential investment in visual and olfactory brain areas reflects behavioural choices in hawk moths. <i>Scientific Reports</i> , 2016, 6, 26041.	3.3	72
56	Wavelength discrimination in the hummingbird hawkmoth <i>Macroglossum stellatarum</i> . <i>Journal of Experimental Biology</i> , 2016, 219, 553-60.	1.7	23
57	Quantitative studies of animal colour constancy: using the chicken as model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160411.	2.6	25
58	Vision on the high seas: spatial resolution and optical sensitivity in two procellariiform seabirds with different foraging strategies. <i>Journal of Experimental Biology</i> , 2016, 219, 3329-3338.	1.7	22
59	Colour Vision: Random Retina of Butterflies Explained. <i>Current Biology</i> , 2016, 26, R900-R902.	3.9	1
60	Colour in the eye of the beholder: receptor sensitivities and neural circuits underlying colour opponency and colour perception. <i>Current Opinion in Neurobiology</i> , 2016, 41, 106-112.	4.2	38
61	Patterns and Processes in Nocturnal and Crepuscular Pollination Services. <i>Quarterly Review of Biology</i> , 2016, 91, 389-418.	0.1	56
62	Visual acuity in an opportunistic raptor, the chimango caracara (<i>Milvago chimango</i>). <i>Physiology and Behavior</i> , 2016, 157, 125-128.	2.1	18
63	Visual abilities in two raptors with different ecology. <i>Journal of Experimental Biology</i> , 2016, 219, 2639-49.	1.7	39
64	Complementary shifts in photoreceptor spectral tuning unlock the full adaptive potential of ultraviolet vision in birds. <i>ELife</i> , 2016, 5, .	6.0	45
65	Bird colour vision: behavioural thresholds reveal receptor noise. <i>Journal of Experimental Biology</i> , 2015, 218, 184-193.	1.7	126
66	Spectral sensitivity in Onychophora (velvet worms) revealed by electroretinograms, phototactic behaviour and opsin gene expression. <i>Journal of Experimental Biology</i> , 2015, 218, 915-922.	1.7	25
67	Why do seals have cones? Behavioural evidence for colour-blindness in harbour seals. <i>Animal Cognition</i> , 2015, 18, 551-560.	1.8	23
68	Optics of cone photoreceptors in the chicken (<i>Gallus gallus domesticus</i>). <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150591.	3.4	37
69	Unexpectedly low UV-sensitivity in a bird, the budgerigar. <i>Biology Letters</i> , 2014, 10, 20140670.	2.3	9
70	The contribution of single and double cones to spectral sensitivity in budgerigars during changing light conditions. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2014, 200, 197-207.	1.6	54
71	Out of the blue: the spectral sensitivity of hummingbird hawkmoths. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2014, 200, 537-546.	1.6	43
72	Retinal ganglion cell topography and spatial resolution of two parrot species: budgerigar (<i>Melopsittacus undulatus</i>) and Bourke's parrot (<i>Neopsephotus bourkii</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2014, 200, 371-384.	1.6	33

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73	Ultraviolet vision in birds: the importance of transparent eye media. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132209.	2.6	86
74	Stimulus motion improves spatial contrast sensitivity in budgerigars (<i>Melopsittacus undulatus</i>). <i>Vision Research</i> , 2014, 102, 19-25.	1.4	19
75	Colour Vision: Parallel Pathways Intersect in <i>Drosophila</i> . <i>Current Biology</i> , 2013, 23, R1043-R1045.	3.9	28
76	Ultraviolet sensitivity and colour vision in raptor foraging. <i>Journal of Experimental Biology</i> , 2013, 216, 1819-1826.	1.7	73
77	A harbor seal can transfer the same/different concept to new stimulus dimensions. <i>Animal Cognition</i> , 2013, 16, 915-925.	1.8	21
78	Ultraviolet sensitivity and colour vision in raptor foraging. <i>Journal of Experimental Biology</i> , 2013, 216, 3764-3764.	1.7	19
79	Multiple leading edge vortices of unexpected strength in freely flying hawkmoth. <i>Scientific Reports</i> , 2013, 3, 3264.	3.3	27
80	Brightness Discrimination in Budgerigars (<i>Melopsittacus undulatus</i>). <i>PLoS ONE</i> , 2013, 8, e54650.	2.5	50
81	Opsins in Onychophora (Velvet Worms) Suggest a Single Origin and Subsequent Diversification of Visual Pigments in Arthropods. <i>Molecular Biology and Evolution</i> , 2012, 29, 3451-3458.	8.9	61
82	Chromatic Signals Control Proboscis Movements during Hovering Flight in the Hummingbird Hawkmoth <i>Macroglossum stellatarum</i> . <i>PLoS ONE</i> , 2012, 7, e34629.	2.5	30
83	Luminance-dependence of spatial vision in budgerigars (<i>Melopsittacus undulatus</i>) and Bourke's parrots (<i>Neopsephotus bourkii</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2012, 198, 69-77.	1.6	46
84	The spatial tuning of achromatic and chromatic vision in budgerigars. <i>Journal of Vision</i> , 2011, 11, 2-2.	0.3	68
85	How does a diurnal hawkmoth find nectar? Differences in sensory control with a nocturnal relative. <i>Behavioral Ecology</i> , 2011, 22, 976-984.	2.2	24
86	Hornets Can Fly at Night without Obvious Adaptations of Eyes and Ocelli. <i>PLoS ONE</i> , 2011, 6, e21892.	2.5	18
87	Limits of colour vision in dim light. <i>Ophthalmic and Physiological Optics</i> , 2010, 30, 454-459.	2.0	37
88	From spectral information to animal colour vision: experiments and concepts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1617-1625.	2.6	161
89	What a hawkmoth remembers after hibernation depends on innate preferences and conditioning situation. <i>Behavioral Ecology</i> , 2010, 21, 1093-1097.	2.2	14
90	The pupils and optical systems of gecko eyes. <i>Journal of Vision</i> , 2009, 9, 27-27.	0.3	32

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91	The intensity threshold of colour vision in two species of parrot. <i>Journal of Experimental Biology</i> , 2009, 212, 3693-3699.	1.7	43
92	Resolution and sensitivity of the eyes of the Asian honeybees <i>Apis florea</i> , <i>Apis cerana</i> and <i>Apis dorsata</i> . <i>Journal of Experimental Biology</i> , 2009, 212, 2448-2453.	1.7	46
93	Flexible responses to visual and olfactory stimuli by foraging <i>Manduca sexta</i> : larval nutrition affects adult behaviour. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2739-2745.	2.6	29
94	Avian colour vision: Effects of variation in receptor sensitivity and noise data on model predictions as compared to behavioural results. <i>Vision Research</i> , 2009, 49, 1939-1947.	1.4	76
95	Visual ecology of Indian carpenter bees II: adaptations of eyes and ocelli to nocturnal and diurnal lifestyles. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009, 195, 571-583.	1.6	87
96	Visual ecology of Indian carpenter bees I: Light intensities and flight activity. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2008, 194, 97-107.	1.6	66
97	Why do <i>Manduca sexta</i> feed from white flowers? Innate and learnt colour preferences in a hawkmoth. <i>Die Naturwissenschaften</i> , 2008, 95, 569-576.	1.6	102
98	Brightness discrimination in the harbor seal (<i>Phoca vitulina</i>). <i>Vision Research</i> , 2008, 48, 96-103.	1.4	33
99	Nocturnal bees learn landmark colours in starlight. <i>Current Biology</i> , 2008, 18, R996-R997.	3.9	67
100	Multifocal optical systems and pupil dynamics in birds. <i>Journal of Experimental Biology</i> , 2008, 211, 2752-2758.	1.7	45
101	The lycaenid butterfly <i>Polyommatus icarus</i> uses a duplicated blue opsin to see green. <i>Journal of Experimental Biology</i> , 2008, 211, 361-369.	1.7	41
102	How Do Hawkmoths Learn Multimodal Stimuli? A Comparison of Three Models. <i>Adaptive Behavior</i> , 2008, 16, 349-360.	1.9	3
103	The Absolute Threshold of Colour Vision in the Horse. <i>PLoS ONE</i> , 2008, 3, e3711.	2.5	75
104	Colour perception in a dichromat. <i>Journal of Experimental Biology</i> , 2007, 210, 2795-2800.	1.7	19
105	FLORAL BIOLOGY OF NORTH AMERICAN OENOTHERA SECT. LAVAUXIA (ONAGRACEAE): ADVERTISEMENTS, REWARDS, AND EXTREME VARIATION IN FLORAL DEPTH ^{1,2} . <i>Annals of the Missouri Botanical Garden</i> , 2007, 94, 236-257.	1.3	38
106	A functional analysis of compound eye evolution. <i>Arthropod Structure and Development</i> , 2007, 36, 373-385.	1.4	67
107	Sinnes�kologie der Futteraufnahme des Taubenschw�nzchens <i>Macroglossum stellatarum</i> (Lepidoptera: Sphingidae). <i>Entomologia Generalis</i> , 2007, 29, 97-110.	3.1	4
108	Nocturnal colour vision – not as rare as we might think. <i>Journal of Experimental Biology</i> , 2006, 209, 781-788.	1.7	149

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109	Light intensity limits foraging activity in nocturnal and crepuscular bees. <i>Behavioral Ecology</i> , 2006, 17, 63-72.	2.2	135
110	Crepuscular and nocturnal illumination and its effects on color perception by the nocturnal hawkmoth <i>Deilephila elpenor</i> . <i>Journal of Experimental Biology</i> , 2006, 209, 789-800.	1.7	202
111	The relative importance of olfaction and vision in a diurnal and a nocturnal hawkmoth. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2006, 192, 431-437.	1.6	124
112	Colour preferences influences odour learning in the hawkmoth, <i>Macroglossum stellatarum</i> . <i>Die Naturwissenschaften</i> , 2006, 93, 255-258.	1.6	45
113	Ocellar optics in nocturnal and diurnal bees and wasps. <i>Arthropod Structure and Development</i> , 2006, 35, 293-305.	1.4	66
114	Color discrimination in the red range with only one long-wavelength sensitive opsin. <i>Journal of Experimental Biology</i> , 2006, 209, 1944-1955.	1.7	107
115	Modelling Multi-modal Learning in a Hawkmoth. <i>Lecture Notes in Computer Science</i> , 2006, , 422-433.	1.3	2
116	Alternative use of chromatic and achromatic cues in a hawkmoth. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 2143-2147.	2.6	50
117	A Model of Selection between Stimulus and Place Strategy in a Hawkmoth. <i>Adaptive Behavior</i> , 2004, 12, 21-35.	1.9	24
118	Colour constancy in diurnal and nocturnal hawkmoths. <i>Journal of Experimental Biology</i> , 2004, 207, 3307-3316.	1.7	52
119	Nocturnal Vision and Landmark Orientation in a Tropical Halictid Bee. <i>Current Biology</i> , 2004, 14, 1309-1318.	3.9	189
120	Nocturnal colour vision in geckos. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S485-7.	2.6	87
121	Sugar preferences and feeding strategies in the hawkmoth <i>Macroglossum stellatarum</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2003, 189, 661-666.	1.6	24
122	Animal colour vision – behavioural tests and physiological concepts. <i>Biological Reviews</i> , 2003, 78, 81-118.	10.4	731
123	12. Eyes and vision. , 2003, , 325-360.		4
124	Colour Vision in Diurnal and Nocturnal Hawkmoths. <i>Integrative and Comparative Biology</i> , 2003, 43, 571-579.	2.0	102
125	Pattern discrimination in a hawkmoth: innate preferences, learning performance and ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 2573-2577.	2.6	61
126	Scotopic colour vision in nocturnal hawkmoths. <i>Nature</i> , 2002, 419, 922-925.	27.8	214

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127	Receptor based models for spontaneous colour choices in flies and butterflies. <i>Entomologia Experimentalis Et Applicata</i> , 2001, 99, 231-244.	1.4	68
128	Polarisation-dependent colour vision in <i>Papilio</i> butterflies. <i>Journal of Experimental Biology</i> , 2001, 204, 2469-2480.	1.7	86
129	Why "false" colours are seen by butterflies. <i>Nature</i> , 1999, 402, 251-251.	27.8	112
130	Trichromatic colour vision in the hummingbird hawkmoth, <i>Macroglossum stellatarum</i> L. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1999, 184, 535-541.	1.6	51
131	True Colour Vision in the Orchard Butterfly, <i>Papilio aegaeus</i> . <i>Die Naturwissenschaften</i> , 1999, 86, 221-224.	1.6	71
132	SPONTANEOUS AND LEARNED PREFERENCES FOR VISUAL FLOWER FEATURES IN A DIURNAL HAWKMOTH. <i>Israel Journal of Plant Sciences</i> , 1997, 45, 235-245.	0.5	32
133	<i>Tetragonisca</i> guard bees interpret expanding and contracting patterns as unintended displacement in space. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1997, 181, 257-265.	1.6	14
134	Ground-nesting bees determine the location of their nest relative to a landmark by other than angular size cues. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1994, 175, 363.	1.6	49
135	A robust procedure for visual stabilisation of hovering flight position in guard bees of <i>Trigona</i> (<i>Tetragonisca</i>) <i>angustula</i> (Apidae, Meliponinae). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1990, 167, 569.	1.6	21
136	The retrieval of visuo-spatial memories by honeybees. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1988, 163, 145-150.	1.6	89