

# Lars Chittka

## List of Publications by Year in descending order

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Version: 2024-02-01

266  
papers

23,316  
citations

7551

77  
h-index

10424

139  
g-index

371  
all docs

371  
docs citations

371  
times ranked

12983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalization in Pollination Systems, and Why it Matters. <i>Ecology</i> , 1996, 77, 1043-1060.	1.5	1,553
2	THEEVOLUTION OFCOLORVISION ININSECTS. <i>Annual Review of Entomology</i> , 2001, 46, 471-510.	5.7	1,230
3	Flower Constancy, Insect Psychology, and Plant Evolution. <i>Die Naturwissenschaften</i> , 1999, 86, 361-377.	0.6	543
4	Are Bigger Brains Better?. <i>Current Biology</i> , 2009, 19, R995-R1008.	1.8	542
5	The colour hexagon: a chromaticity diagram based on photoreceptor excitations as a generalized representation of colour opponency. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 170, 533.	0.7	476
6	Speedâ€“accuracy tradeoffs in animal decision making. <i>Trends in Ecology and Evolution</i> , 2009, 24, 400-407.	4.2	473
7	Sensor Capability and Atmospheric Correction in Ocean Colour Remote Sensing. <i>Remote Sensing</i> , 2016, 8, 1.	1.8	463
8	Visual constraints in foraging bumblebees: Flower size and color affect search time and flight behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 3898-3903.	3.3	443
9	Ultraviolet as a component of flower reflections, and the colour perception of hymenoptera. <i>Vision Research</i> , 1994, 34, 1489-1508.	0.7	408
10	Successful invasion of a floral market. <i>Nature</i> , 2001, 411, 653-653.	13.7	403
11	Recognition of flowers by pollinators. <i>Current Opinion in Plant Biology</i> , 2006, 9, 428-435.	3.5	368
12	Floral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinators. <i>Science</i> , 2009, 323, 130-133.	6.0	345
13	Bees trade off foraging speed for accuracy. <i>Nature</i> , 2003, 424, 388-388.	13.7	341
14	The genomes of two key bumblebee species with primitive eusocial organization. <i>Genome Biology</i> , 2015, 16, 76.	3.8	330
15	Social Learning in Insects â€” From Miniature Brains to Consensus Building. <i>Current Biology</i> , 2007, 17, R703-R713.	1.8	311
16	The evolutionary adaptation of flower colours and the insect pollinators' colour vision. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 171, 171.	0.7	309
17	Colour preferences of flower-naive honeybees. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1995, 177, 247.	0.7	294
18	Spatial Memory in Insect Navigation. <i>Current Biology</i> , 2013, 23, R789-R800.	1.8	276

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19	The correlation of learning speed and natural foraging success in bumble-bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 803-808.	1.2	272
20	Foraging dynamics of bumble bees: correlates of movements within and between plant species. <i>Behavioral Ecology</i> , 1997, 8, 239-249.	1.0	224
21	Fine colour discrimination requires differential conditioning in bumblebees. <i>Die Naturwissenschaften</i> , 2004, 91, 224-227.	0.6	215
22	WHY RED FLOWERS ARE NOT INVISIBLE TO BEES. <i>Israel Journal of Plant Sciences</i> , 1997, 45, 169-183.	0.3	199
23	Biological significance of distinguishing between similar colours in spectrally variable illumination: bumblebees ( <i>Bombus terrestris</i> ) as a case study. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2004, 190, 105-114.	0.7	195
24	Interindividual variation of eye optics and single object resolution in bumblebees. <i>Journal of Experimental Biology</i> , 2003, 206, 3447-3453.	0.8	194
25	Can honey bees count landmarks?. <i>Animal Behaviour</i> , 1995, 49, 159-164.	0.8	193
26	The Adaptive Significance of Sensory Bias in a Foraging Context: Floral Colour Preferences in the Bumblebee <i>Bombus terrestris</i> . <i>PLoS ONE</i> , 2007, 2, e556.	1.1	186
27	Visual ecology of aphids—a critical review on the role of colours in host finding. <i>Arthropod-Plant Interactions</i> , 2007, 1, 3-16.	0.5	184
28	Crab-spiders manipulate flower signals. <i>Nature</i> , 2003, 421, 334-334.	13.7	180
29	Colour choices of naive bumble bees and their implications for colour perception. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1996, 178, 477.	0.7	174
30	Bees associate warmth with floral colour. <i>Nature</i> , 2006, 442, 525-525.	13.7	170
31	Honeybee ( <i>Apis mellifera</i> ) vision can discriminate between and recognise images of human faces. <i>Journal of Experimental Biology</i> , 2005, 208, 4709-4714.	0.8	169
32	Conical Epidermal Cells Allow Bees to Grip Flowers and Increase Foraging Efficiency. <i>Current Biology</i> , 2009, 19, 948-953.	1.8	169
33	Associative Mechanisms Allow for Social Learning and Cultural Transmission of String Pulling in an Insect. <i>PLoS Biology</i> , 2016, 14, e1002564.	2.6	166
34	Why do honey bees dance?. <i>Behavioral Ecology and Sociobiology</i> , 2004, 55, 395-401.	0.6	163
35	Learning by Observation Emerges from Simple Associations in an Insect Model. <i>Current Biology</i> , 2013, 23, 727-730.	1.8	163
36	Evolutionary origins of bee dances. <i>Nature</i> , 1999, 401, 38-38.	13.7	158

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37	Speed-Accuracy Tradeoffs and False Alarms in Bee Responses to Cryptic Predators. <i>Current Biology</i> , 2008, 18, 1520-1524.	1.8	153
38	Why are there so many and so few white flowers?. <i>Trends in Plant Science</i> , 1996, 1, 252.	4.3	147
39	Why do so many petals have conical epidermal cells?. <i>Annals of Botany</i> , 2011, 108, 609-616.	1.4	147
40	Does bee color vision predate the evolution of flower color?. <i>Die Naturwissenschaften</i> , 1996, 83, 136-138.	0.6	146
41	Bumblebees show cognitive flexibility by improving on an observed complex behavior. <i>Science</i> , 2017, 355, 833-836.	6.0	145
42	Bees travel novel homeward routes by integrating separately acquired vector memories. <i>Animal Behaviour</i> , 1998, 55, 139-152.	0.8	136
43	Sensori-motor learning and its relevance for task specialization in bumble bees. <i>Behavioral Ecology and Sociobiology</i> , 1997, 41, 385-398.	0.6	131
44	Benefits of recruitment in honey bees: effects of ecology and colony size in an individual-based model. <i>Behavioral Ecology</i> , 2006, 17, 336-344.	1.0	128
45	Radar Tracking and Motion-Sensitive Cameras on Flowers Reveal the Development of Pollinator Multi-Destination Routes over Large Spatial Scales. <i>PLoS Biology</i> , 2012, 10, e1001392.	2.6	127
46	Opponent colour coding is a universal strategy to evaluate the photoreceptor inputs in Hymenoptera. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1992, 170, 545-63.	0.7	124
47	Limits to the salience of ultraviolet: lessons from colour vision in bees and birds. <i>Journal of Experimental Biology</i> , 2001, 204, 2571-2580.	0.8	124
48	Optimal Sets of Color Receptors and Color Opponent Systems for Coding of Natural Objects in Insect Vision. <i>Journal of Theoretical Biology</i> , 1996, 181, 179-196.	0.8	122
49	Adaptation, constraint, and chance in the evolution of flower color and pollinator color vision. , 2001, , 106-126.		119
50	Food alert in bumblebees ( <i>Bombus terrestris</i> ): possible mechanisms and evolutionary implications. <i>Behavioral Ecology and Sociobiology</i> , 2001, 50, 570-576.	0.6	118
51	Mutations perturbing petal cell shape and anthocyanin synthesis influence bumblebee perception of <i>Antirrhinum majus</i> flower colour. <i>Arthropod-Plant Interactions</i> , 2007, 1, 45-55.	0.5	116
52	Adaptation, Genetic Drift, Pleiotropy, and History in the Evolution of Bee Foraging Behavior. <i>Advances in the Study of Behavior</i> , 2006, , 305-354.	1.0	114
53	Floral colour diversity in plant communities, bee colour space and a null model. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 1711-1716.	1.2	113
54	Bumblebees ( <i>Bombus terrestris</i> ) sacrifice foraging speed to solve difficult colour discrimination tasks. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2004, 190, 759-63.	0.7	113

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55	Unexpected rewards induce dopamine-dependent positive emotion-like state changes in bumblebees. <i>Science</i> , 2016, 353, 1529-1531.	6.0	109
56	The dynamics of social learning in an insect model, the bumblebee ( <i>Bombus terrestris</i> ). <i>Behavioral Ecology and Sociobiology</i> , 2007, 61, 1789-1796.	0.6	108
57	Travel Optimization by Foraging Bumblebees through Readjustments of Traplines after Discovery of New Feeding Locations. <i>American Naturalist</i> , 2010, 176, 744-757.	1.0	108
58	Life-Long Radar Tracking of Bumblebees. <i>PLoS ONE</i> , 2016, 11, e0160333.	1.1	106
59	Can commercially imported bumble bees out-compete their native conspecifics?. <i>Journal of Applied Ecology</i> , 2006, 43, 940-948.	1.9	104
60	Photoreceptor spectral sensitivity in island and mainland populations of the bumblebee, <i>Bombus terrestris</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2007, 193, 485-494.	0.7	100
61	Flower colours along an alpine altitude gradient, seen through the eyes of fly and bee pollinators. <i>Arthropod-Plant Interactions</i> , 2009, 3, 27-43.	0.5	100
62	The influences of landmarks on distance estimation of honey bees. <i>Animal Behaviour</i> , 1995, 50, 23-31.	0.8	98
63	Winter Active Bumblebees ( <i>Bombus terrestris</i> ) Achieve High Foraging Rates in Urban Britain. <i>PLoS ONE</i> , 2010, 5, e9559.	1.1	97
64	A receiver bias in the origin of three-spined stickleback mate choice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 949-955.	1.2	96
65	Pollen foraging: learning a complex motor skill by bumblebees ( <i>Bombus terrestris</i> ). <i>Die Naturwissenschaften</i> , 2007, 94, 459-464.	0.6	96
66	Cognitive Dimensions of Predator Responses to Imperfect Mimicry. <i>PLoS Biology</i> , 2007, 5, e339.	2.6	95
67	An Exploration of the Social Brain Hypothesis in Insects. <i>Frontiers in Physiology</i> , 2012, 3, 442.	1.3	95
68	Colouration in crab spiders: substrate choice and prey attraction. <i>Journal of Experimental Biology</i> , 2005, 208, 1785-1792.	0.8	94
69	A new mode of information transfer in foraging bumblebees?. <i>Current Biology</i> , 2005, 15, R447-R448.	1.8	93
70	A population comparison of the strength and persistence of innate colour preference and learning speed in the bumblebee <i>Bombus terrestris</i> . <i>Behavioral Ecology and Sociobiology</i> , 2009, 63, 1207-1218.	0.6	91
71	BEE COLOR VISION IS OPTIMAL FOR CODING FLOWER COLOR, BUT FLOWER COLORS ARE NOT OPTIMAL FOR BEING CODED-WHY?. <i>Israel Journal of Plant Sciences</i> , 1997, 45, 115-127.	0.3	87
72	Information flow and regulation of foraging activity in bumble bees ( <i>Bombus</i> spp.). <i>Apidologie</i> , 2004, 35, 183-192.	0.9	87

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73	Limits to the salience of ultraviolet: lessons from colour vision in bees and birds. <i>Journal of Experimental Biology</i> , 2001, 204, 2571-80.	0.8	87
74	Chance and adaptation in the evolution of island bumblebee behaviour. <i>Population Ecology</i> , 2004, 46, 243-251.	0.7	86
75	The interaction of temperature and sucrose concentration on foraging preferences in bumblebees. <i>Die Naturwissenschaften</i> , 2008, 95, 845-850.	0.6	86
76	The knowledge base of bee navigation. <i>Journal of Experimental Biology</i> , 1996, 199, 141-146.	0.8	86
77	FRoD: The Floral Reflectance Database – A Web Portal for Analyses of Flower Colour. <i>PLoS ONE</i> , 2010, 5, e14287.	1.1	86
78	BlÄ¼tenstetigkeit und GedÄ¼chtnisdynamik bei Hummeln (Hymenoptera: Apidae: Bombus). <i>Entomologia Generalis</i> , 2007, 29, 179-199.	1.1	82
79	Navigation without vision: bumblebee orientation in complete darkness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 45-50.	1.2	80
80	Do honeybees detect colour targets using serial or parallel visual search?. <i>Journal of Experimental Biology</i> , 2006, 209, 987-993.	0.8	80
81	Variability in Sensory Ecology: Expanding the Bridge Between Physiology and Evolutionary Biology. <i>Quarterly Review of Biology</i> , 2009, 84, 51-74.	0.0	80
82	Camouflage of Predatory Crab Spiders on Flowers and the Colour Perception of Bees (Aranida:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	1.1	79
83	Bumble bees ( <i>Bombus terrestris</i> ) store both food and information in honeypots. <i>Behavioral Ecology</i> , 2005, 16, 661-666.	1.0	78
84	Social transmission of nectar-robbing behaviour in bumble-bees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1669-1674.	1.2	78
85	No Trade-Off between Learning Speed and Associative Flexibility in Bumblebees: A Reversal Learning Test with Multiple Colonies. <i>PLoS ONE</i> , 2012, 7, e45096.	1.1	77
86	What is comparable in comparative cognition?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 2677-2685.	1.8	75
87	Traplining in bumblebees ( <i>Bombus impatiens</i> ): a foraging strategyÄ™s ontogeny and the importance of spatial reference memory in short-range foraging. <i>Oecologia</i> , 2007, 151, 719-730.	0.9	74
88	TradeÄ½ff between travel distance and prioritization of highÄ½reward sites in traplining bumblebees. <i>Functional Ecology</i> , 2011, 25, 1284-1292.	1.7	74
89	A Simple Computational Model of the Bee Mushroom Body Can Explain Seemingly Complex Forms of Olfactory Learning and Memory. <i>Current Biology</i> , 2017, 27, 224-230.	1.8	74
90	Underwater image and video dehazing with pure haze region segmentation. <i>Computer Vision and Image Understanding</i> , 2018, 168, 145-156.	3.0	74

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91	Bumble-bees learn the value of social cues through experience. <i>Biology Letters</i> , 2009, 5, 310-312.	1.0	71
92	Unterschiede im Lernverhalten zwischen Kolonien einer freilebenden Britischen Hummelpopulation (Hymenoptera: Apidae: <i>Bombus terrestris audax</i> ). <i>Entomologia Generalis</i> , 2006, 28, 241-256.	1.1	71
93	Floral scent, olfaction, and scent-driven foraging behavior. , 2001, , 83-105.		70
94	Differences in Photoreceptor Processing Speed for Chromatic and Achromatic Vision in the Bumblebee, <i>Bombus terrestris</i> . <i>Journal of Neuroscience</i> , 2010, 30, 3896-3903.	1.7	70
95	The frontiers of insect cognition. <i>Current Opinion in Behavioral Sciences</i> , 2017, 16, 111-118.	2.0	70
96	Bumblebees, humble pollinators or assiduous invaders? A population comparison of foraging performance in <i>Bombus terrestris</i> . <i>Oecologia</i> , 2005, 144, 508-516.	0.9	69
97	Distinguishing signals and cues: bumblebees use general footprints to generate adaptive behaviour at flowers and nest. <i>Arthropod-Plant Interactions</i> , 2007, 1, 119-127.	0.5	68
98	How floral odours are learned inside the bumblebee ( <i>Bombus terrestris</i> ) nest. <i>Die Naturwissenschaften</i> , 2009, 96, 213-219.	0.6	68
99	The significance of landmarks for path integration in homing honeybee foragers. <i>Die Naturwissenschaften</i> , 1995, 82, 341-343.	0.6	67
100	Chemical compounds of the foraging recruitment pheromone in bumblebees. <i>Die Naturwissenschaften</i> , 2005, 92, 371-374.	0.6	67
101	The importance of experience in the interpretation of conspecific chemical signals. <i>Behavioral Ecology and Sociobiology</i> , 2006, 61, 215-220.	0.6	67
102	Learning, specialization, efficiency and task allocation in social insects. <i>Communicative and Integrative Biology</i> , 2009, 2, 151-154.	0.6	66
103	Photoreceptor Spectral Sensitivity in the Bumblebee, <i>Bombus impatiens</i> (Hymenoptera: Apidae). <i>PLoS ONE</i> , 2010, 5, e12049.	1.1	66
104	Perception Space—The Final Frontier. <i>PLoS Biology</i> , 2005, 3, e137.	2.6	65
105	Honeybee vision and floral displays:from detection to close-up recognition. , 2001, , 61-82.		64
106	Bee cognition. <i>Current Biology</i> , 2017, 27, R1049-R1053.	1.8	63
107	Colony nutritional status modulates worker responses to foraging recruitment pheromone in the bumblebee <i>Bombus terrestris</i> . <i>Behavioral Ecology and Sociobiology</i> , 2008, 62, 1919-1926.	0.6	62
108	Behavioural evidence for self-medication in bumblebees?. <i>F1000Research</i> , 2015, 4, 73.	0.8	62

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109	The role of UV in crab spider signals: effects on perception by prey and predators. <i>Journal of Experimental Biology</i> , 2005, 208, 3925-3931.	0.8	60
110	Facultative use of the repellent scent mark in foraging bumblebees: complex versus simple flowers. <i>Animal Behaviour</i> , 2006, 71, 847-854.	0.8	60
111	Mechanisms of social learning across species boundaries. <i>Journal of Zoology</i> , 2013, 290, 1-11.	0.8	60
112	Conspecific and Heterospecific Information Use in Bumblebees. <i>PLoS ONE</i> , 2012, 7, e31444.	1.1	60
113	Are Autumn Foliage Colors Red Signals to Aphids?. <i>PLoS Biology</i> , 2007, 5, e187.	2.6	59
114	Animal Behaviour: Emotion in Invertebrates?. <i>Current Biology</i> , 2011, 21, R463-R465.	1.8	59
115	What is cognition?. <i>Current Biology</i> , 2019, 29, R608-R615.	1.8	58
116	Bumblebee foraging rhythms under the midnight sun measured with radiofrequency identification. <i>BMC Biology</i> , 2010, 8, 93.	1.7	57
117	Caste- and pesticide-specific effects of neonicotinoid pesticide exposure on gene expression in bumblebees. <i>Molecular Ecology</i> , 2019, 28, 1964-1974.	2.0	55
118	Bees do not use nearest-neighbour rules for optimization of multi-location routes. <i>Biology Letters</i> , 2012, 8, 13-16.	1.0	54
119	Convergent evolution of floral signals underlies the success of Neotropical orchids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130960.	1.2	54
120	Seeing the light: Illumination as a contextual cue to color choice behavior in bumblebees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3852-3856.	3.3	52
121	Social Learning: Ants and the Meaning of Teaching. <i>Current Biology</i> , 2006, 16, R323-R325.	1.8	52
122	Predator crypsis enhances behaviourally mediated indirect effects on plants by altering bumblebee foraging preferences. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2031-2036.	1.2	51
123	Nicotine in floral nectar pharmacologically influences bumblebee learning of floral features. <i>Scientific Reports</i> , 2017, 7, 1951.	1.6	51
124	Bumblebees distinguish floral scent patterns, and can transfer these to corresponding visual patterns. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180661.	1.2	51
125	Bumble bees display cross-modal object recognition between visual and tactile senses. <i>Science</i> , 2020, 367, 910-912.	6.0	50
126	Bumblebee search time without ultraviolet light. <i>Journal of Experimental Biology</i> , 2004, 207, 1683-1688.	0.8	49



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127	A possible structural correlate of learning performance on a colour discrimination task in the brain of the bumblebee. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171323.	1.2	49
128	The effects of floral design and display on pollinator economics and pollen dispersal. , 2001, , 297-317.		48
129	Bumble bees alert to food with pheromone from tergal gland. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2003, 189, 47-51.	0.7	48
130	Is colour cognitive?. <i>Optics and Laser Technology</i> , 2011, 43, 251-260.	2.2	48
131	Behavioral and neural mechanisms of learning and memory as determinants of flower constancy. , 2001, , 21-40.		47
132	Visual search and the importance of time in complex decision making by bees. <i>Arthropod-Plant Interactions</i> , 2007, 1, 37-44.	0.5	47
133	Continuous Radar Tracking Illustrates the Development of Multi-destination Routes of Bumblebees. <i>Scientific Reports</i> , 2017, 7, 17323.	1.6	47
134	Analysis of Pollen and Nectar of <i>Arbutus unedo</i> as a Food Source for <i>Bombus terrestris</i> (Hymenoptera: Apidae). <i>Journal of Economic Entomology</i> , 2005, 98, 656-663.	0.8	46
135	Copy-when-uncertain: bumblebees rely on social information when rewards are highly variable. <i>Biology Letters</i> , 2016, 12, 20160188.	1.0	46
136	The effect of variation among floral traits on the flower constancy of pollinators. , 2001, , 1-20.		45
137	Breaking Haller's Rule: Brain-Body Size Isometry in a Minute Parasitic Wasp. <i>Brain, Behavior and Evolution</i> , 2013, 81, 86-92.	0.9	45
138	A Simple Iterative Model Accurately Captures Complex Trapline Formation by Bumblebees Across Spatial Scales and Flower Arrangements. <i>PLoS Computational Biology</i> , 2013, 9, e1002938.	1.5	43
139	Flower Iridescence Increases Object Detection in the Insect Visual System without Compromising Object Identity. <i>Current Biology</i> , 2016, 26, 802-808.	1.8	43
140	Counting insects. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20160513.	1.8	43
141	Weak and contradictory effects of self-medication with nectar nicotine by parasitized bumblebees. <i>F1000Research</i> , 2015, 4, 73.	0.8	42
142	Bees use three-dimensional information to improve target detection. <i>Die Naturwissenschaften</i> , 2010, 97, 229-233.	0.6	41
143	Animal Cognition: Concepts from Apes to Bees. <i>Current Biology</i> , 2011, 21, R116-R119.	1.8	41
144	Information processing in miniature brains. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 885-888.	1.2	41

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145	Colour constancy in insects. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2014, 200, 435-448.	0.7	41
146	The effect of polyploidy and hybridization on the evolution of floral colour in <i>Nicotiana</i> (Solanaceae). <i>Annals of Botany</i> , 2015, 115, 1117-1131.	1.4	41
147	Insect Bio-inspired Neural Network Provides New Evidence on How Simple Feature Detectors Can Enable Complex Visual Generalization and Stimulus Location Invariance in the Miniature Brain of Honeybees. <i>PLoS Computational Biology</i> , 2017, 13, e1005333.	1.5	40
148	Social Learning: Public Information in Insects. <i>Current Biology</i> , 2005, 15, R869-R871.	1.8	39
149	Bird pollination of Canary Island endemic plants. <i>Die Naturwissenschaften</i> , 2009, 96, 221-232.	0.6	39
150	Circadian Foraging Rhythms of Bumblebees Monitored by Radio-frequency Identification. <i>Journal of Biological Rhythms</i> , 2010, 25, 257-267.	1.4	39
151	Speed-accuracy trade-offs and individually consistent decision making by individuals and dyads of zebrafish in a colour discrimination task. <i>Animal Behaviour</i> , 2015, 103, 277-283.	0.8	38
152	Dominance of Celestial Cues over Landmarks Disproves Map-Like Orientation in Honey Bees. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1990, 45, 723-726.	0.6	37
153	Epigenetics of Royalty. <i>PLoS Biology</i> , 2010, 8, e1000532.	2.6	36
154	The influence of past experience with flower reward quality on social learning in bumblebees. <i>Animal Behaviour</i> , 2015, 101, 11-18.	0.8	36
155	Local enhancement or stimulus enhancement? Bumblebee social learning results in a specific pattern of flower preference. <i>Animal Behaviour</i> , 2014, 97, 185-191.	0.8	35
156	Differences Interindividuelles en termes d'Apprentissage des Couleurs, Formes et Odeurs chez le Bourdon (Hymenoptera: Apidae: <i>Bombus terrestris</i> ). <i>Entomologia Generalis</i> , 2012, 34, 1-8.	1.1	35
157	Bumblebee social learning can lead to suboptimal foraging choices. <i>Animal Behaviour</i> , 2018, 135, 209-214.	0.8	34
158	Gut microbiome drives individual memory variation in bumblebees. <i>Nature Communications</i> , 2021, 12, 6588.	5.8	34
159	The spectral input to honeybee visual odometry. <i>Journal of Experimental Biology</i> , 2003, 206, 2393-2397.	0.8	33
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