Lars Chittka

List of Publications by Year
in descending order

266 papers	23,316 citations	7561 77 h-index	10441 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. Ecology, 1996, 77, 1043-1060.	1.5	1,553
2	THEEVOLUTION OFCOLORVISION ININSECTS. Annual Review of Entomology, 2001, 46, 471-510.	5.7	1,230
3	Flower Constancy, Insect Psychology, and Plant Evolution. Die Naturwissenschaften, 1999, 86, 361-377.	0.6	543
4	Are Bigger Brains Better?. Current Biology, 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. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1992, 170, 533.	0.7	476
6	Speedâ€"accuracy tradeoffs in animal decision making. Trends in Ecology and Evolution, 2009, 24, 400-407.	4.2	473
7	Sensor Capability and Atmospheric Correction in Ocean Colour Remote Sensing. Remote Sensing, 2016, 8, 1.	1.8	463
8	Visual constraints in foraging bumblebees: Flower size and color affect search time and flight behavior. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3898-3903.	3.3	443
9	Ultraviolet as a component of flower reflections, and the colour perception of hymenoptera. Vision Research, 1994, 34, 1489-1508.	0.7	408
10	Successful invasion of a floral market. Nature, 2001, 411, 653-653.	13.7	403
11	Recognition of flowers by pollinators. Current Opinion in Plant Biology, 2006, 9, 428-435.	3.5	368
12	Floral Iridescence, Produced by Diffractive Optics, Acts As a Cue for Animal Pollinators. Science, 2009, 323, 130-133.	6.0	345
13	Bees trade off foraging speed for accuracy. Nature, 2003, 424, 388-388.	13.7	341
14	The genomes of two key bumblebee species with primitive eusocial organization. Genome Biology, 2015, 16, 76.	3.8	330
15	Social Learning in Insects â€" From Miniature Brains to Consensus Building. Current Biology, 2007, 17, R703-R713.	1.8	311
16	The evolutionary adaptation of flower colours and the insect pollinators' colour vision. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1992, 171, 171.	0.7	309
17	Colour preferences of flower-naive honeybees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1995, 177, 247.	0.7	294
18	Spatial Memory in Insect Navigation. Current Biology, 2013, 23, R789-R800.	1.8	276

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

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37	Speed-Accuracy Tradeoffs and False Alarms in Bee Responses to Cryptic Predators. Current Biology, 2008, 18, 1520-1524.	1.8	153
38	Why are there so many and so few white flowers?. Trends in Plant Science, 1996, 1, 252.	4.3	147
39	Why do so many petals have conical epidermal cells?. Annals of Botany, 2011, 108, 609-616.	1.4	147
40	Does bee color vision predate the evolution of flower color?. Die Naturwissenschaften, 1996, 83, 136-138.	0.6	146
41	Bumblebees show cognitive flexibility by improving on an observed complex behavior. Science, 2017, 355, 833-836.	6.0	145
42	Bees travel novel homeward routes by integrating separately acquired vector memories. Animal Behaviour, 1998, 55, 139-152.	0.8	136
43	Sensori-motor learning and its relevance for task specialization in bumble bees. Behavioral Ecology and Sociobiology, 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. Behavioral Ecology, 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. PLoS Biology, 2012, 10, e1001392.	2.6	127
46	Opponent colour coding is a universal strategy to evaluate the photoreceptor inputs in Hymenoptera. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1992, 170, 545-63.	0.7	124
47	Limits to the salience of ultraviolet: lessons from colour vision in bees and birds. Journal of Experimental Biology, 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. Journal of Theoretical Biology, 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 (Bombus terrestris): possible mechanisms and evolutionary implications. Behavioral Ecology and Sociobiology, 2001, 50, 570-576.	0.6	118
51	Mutations perturbing petal cell shape and anthocyanin synthesis influence bumblebee perception of Antirrhinum majus flower colour. Arthropod-Plant Interactions, 2007, 1, 45-55.	0.5	116
52	Adaptation, Genetic Drift, Pleiotropy, and History in the Evolution of Bee Foraging Behavior. Advances in the Study of Behavior, 2006, , 305-354.	1.0	114
53	Floral colour diversity in plant communities, bee colour space and a null model. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 1711-1716.	1.2	113
54	Bumblebees (Bombus terrestris) sacrifice foraging speed to solve difficult colour discrimination tasks. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2004, 190, 759-63.	0.7	113

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55	Unexpected rewards induce dopamine-dependent positive emotionâ€“like state changes in bumblebees. Science, 2016, 353, 1529-1531.	6.0	109
56	The dynamics of social learning in an insect model, the bumblebee (Bombus terrestris). Behavioral Ecology and Sociobiology, 2007, 61, 1789-1796.	0.6	108
57	Travel Optimization by Foraging Bumblebees through Readjustments of Traplines after Discovery of New Feeding Locations. American Naturalist, 2010, 176, 744-757.	1.0	108
58	Life-Long Radar Tracking of Bumblebees. PLoS ONE, 2016, 11, e0160333.	1.1	106
59	Can commercially imported bumble bees out-compete their native conspecifics?. Journal of Applied Ecology, 2006, 43, 940-948.	1.9	104
60	Photoreceptor spectral sensitivity in island and mainland populations of the bumblebee, Bombus terrestris. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2007, 193, 485-494.	0.7	100
61	Flower colours along an alpine altitude gradient, seen through the eyes of fly and bee pollinators. Arthropod-Plant Interactions, 2009, 3, 27-43.	0.5	100
62	The influences of landmarks on distance estimation of honey bees. Animal Behaviour, 1995, 50, 23-31.	0.8	98
63	Winter Active Bumblebees (Bombus terrestris) Achieve High Foraging Rates in Urban Britain. PLoS ONE, 2010, 5, e9559.	1.1	97
64	A receiver bias in the origin of threeâ€“spined stickleback mate choice. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 949-955.	1.2	96
65	Pollen foraging: learning a complex motor skill by bumblebees (Bombus terrestris). Die Naturwissenschaften, 2007, 94, 459-464.	0.6	96
66	Cognitive Dimensions of Predator Responses to Imperfect Mimicry. PLoS Biology, 2007, 5, e339.	2.6	95
67	An Exploration of the Social Brain Hypothesis in Insects. Frontiers in Physiology, 2012, 3, 442.	1.3	95
68	Colouration in crab spiders: substrate choice and prey attraction. Journal of Experimental Biology, 2005, 208, 1785-1792.	0.8	94
69	A new mode of information transfer in foraging bumblebees?. Current Biology, 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 Bombus terrestris. Behavioral Ecology and Sociobiology, 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 CODEDâ€"WHY?. Israel Journal of Plant Sciences, 1997, 45, 115-127.	0.3	87
72	Information flow and regulation of foraging activity in bumble bees (Bombus spp.). Apidologie, 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. Journal of Experimental Biology, 2001, 204, 2571-80.	0.8	87
74	Chance and adaptation in the evolution of island bumblebee behaviour. Population Ecology, 2004, 46, 243-251.	0.7	86
75	The interaction of temperature and sucrose concentration on foraging preferences in bumblebees. Die Naturwissenschaften, 2008, 95, 845-850.	0.6	86
76	The knowledge base of bee navigation. Journal of Experimental Biology, 1996, 199, 141-146.	0.8	86
77	FReD: The Floral Reflectance Database â€" A Web Portal for Analyses of Flower Colour. PLoS ONE, 2010, 5, e14287.	1.1	86
78	BlÃ¼tenstetigkeit und GedÃchtnisdynamik bei Hummeln (Hymenoptera: Apidae: Bombus). Entomologia Generalis, 2007, 29, 179-199.	1.1	82
79	Navigation without vision: bumblebee orientation in complete darkness. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 45-50.	1.2	80
80	Do honeybees detect colour targets using serial or parallel visual search?. Journal of Experimental Biology, 2006, 209, 987-993.	0.8	80
81	Variability in Sensory Ecology: Expanding the Bridge Between Physiology and Evolutionary Biology. Quarterly Review of Biology, 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 (Bombus terrestris) store both food and information in honeypots. Behavioral Ecology, 2005, 16, 661-666.	1.0	78
84	Social transmission of nectar-robbing behaviour in bumble-bees. Proceedings of the Royal Society B: Biological Sciences, 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. PLoS ONE, 2012, 7, e45096.	1.1	77
86	What is comparable in comparative cognition?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 2677-2685.	1.8	75
87	Traplining in bumblebees (Bombus impatiens): a foraging strategyâ€™s ontogeny and the importance of spatial reference memory in short-range foraging. Oecologia, 2007, 151, 719-730.	0.9	74
88	Tradeâ€off between travel distance and prioritization of highâ€reward sites in traplining bumblebees. Functional Ecology, 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. Current Biology, 2017, 27, 224-230.	1.8	74
90	Underwater image and video dehazing with pure haze region segmentation. Computer Vision and Image Understanding, 2018, 168, 145-156.	3.0	74

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91	Bumble-bees learn the value of social cues through experience. Biology Letters, 2009, 5, 310-312.	1.0	71
92	Unterschiede im Lernverhalten zwischen Kolonien einer freilebenden Britischen Hummelpopulation (Hymenoptera: Apidae: Bombus terrestris audax). Entomologia Generalis, 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>. Journal of Neuroscience, 2010, 30, 3896-3903.	1.7	70
95	The frontiers of insect cognition. Current Opinion in Behavioral Sciences, 2017, 16, 111-118.	2.0	70
96	Bumblebees, humble pollinators or assiduous invaders? A population comparison of foraging performance in Bombus terrestris. Oecologia, 2005, 144, 508-516.	0.9	69
97	Distinguishing signals and cues: bumblebees use general footprints to generate adaptive behaviour at flowers and nest. Arthropod-Plant Interactions, 2007, 1, 119-127.	0.5	68
98	How floral odours are learned inside the bumblebee (Bombus terrestris) nest. Die Naturwissenschaften, 2009, 96, 213-219.	0.6	68
99	The significance of landmarks for path integration in homing honeybee foragers. Die Naturwissenschaften, 1995, 82, 341-343.	0.6	67
100	Chemical compounds of the foraging recruitment pheromone in bumblebees. Die Naturwissenschaften, 2005, 92, 371-374.	0.6	67
101	The importance of experience in the interpretation of conspecific chemical signals. Behavioral Ecology and Sociobiology, 2006, 61, 215-220.	0.6	67
102	Learning, specialization, efficiency and task allocation in social insects. Communicative and Integrative Biology, 2009, 2, 151-154.	0.6	66
103	Photoreceptor Spectral Sensitivity in the Bumblebee, Bombus impatiens (Hymenoptera: Apidae). PLoS ONE, 2010, 5, e12049.	1.1	66
104	Perception Spaceâ€"The Final Frontier. PLoS Biology, 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. Current Biology, 2017, 27, R1049-R1053.	1.8	63
107	Colony nutritional status modulates worker responses to foraging recruitment pheromone in the bumblebee Bombus terrestris. Behavioral Ecology and Sociobiology, 2008, 62, 1919-1926.	0.6	62
108	Behavioural evidence for self-medication in bumblebees?. F1000Research, 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. Journal of Experimental Biology, 2005, 208, 3925-3931.	0.8	60
110	Facultative use of the repellent scent mark in foraging bumblebees: complex versus simple flowers. Animal Behaviour, 2006, 71, 847-854.	0.8	60
111	Mechanisms of social learning across species boundaries. Journal of Zoology, 2013, 290, 1-11.	0.8	60
112	Conspecific and Heterospecific Information Use in Bumblebees. PLoS ONE, 2012, 7, e31444.	1.1	60
113	Are Autumn Foliage Colors Red Signals to Aphids?. PLoS Biology, 2007, 5, e187.	2.6	59
114	Animal Behaviour: Emotion inÂInvertebrates?. Current Biology, 2011, 21, R463-R465.	1.8	59
115	What is cognition?. Current Biology, 2019, 29, R608-R615.	1.8	58
116	Bumblebee foraging rhythms under the midnight sun measured with radiofrequency identification. BMC Biology, 2010, 8, 93.	1.7	57
117	Casteâ€•and pesticideâ€specific effects of neonicotinoid pesticide exposure on gene expression in bumblebees. Molecular Ecology, 2019, 28, 1964-1974.	2.0	55
118	Bees do not use nearest-neighbour rules for optimization of multi-location routes. Biology Letters, 2012, 8, 13-16.	1.0	54
119	Convergent evolution of floral signals underlies the success of Neotropical orchids. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130960.	1.2	54
120	Seeing the light: Illumination as a contextual cue to color choice behavior in bumblebees. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3852-3856.	3.3	52
121	Social Learning: Ants and the Meaning of Teaching. Current Biology, 2006, 16, R323-R325.	1.8	52
122	Predator crypsis enhances behaviourally mediated indirect effects on plants by altering bumblebee foraging preferences. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 2031-2036.	1.2	51
123	Nicotine in floral nectar pharmacologically influences bumblebee learning of floral features. Scientific Reports, 2017, 7, 1951.	1.6	51
124	Bumblebees distinguish floral scent patterns, and can transfer these to corresponding visual patterns. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180661.	1.2	51
125	Bumble bees display cross-modal object recognition between visual and tactile senses. Science, 2020, 367, 910-912.	6.0	50
126	Bumblebee search time without ultraviolet light. Journal of Experimental Biology, 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. Proceedings of the Royal Society B: Biological Sciences, 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. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2003, 189, 47-51.	0.7	48
130	Is colour cognitive?. Optics and Laser Technology, 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. Arthropod-Plant Interactions, 2007, 1, 37-44.	0.5	47
133	Continuous Radar Tracking Illustrates the Development of Multi-destination Routes of Bumblebees. Scientific Reports, 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). Journal of Economic Entomology, 2005, 98, 656-663.	0.8	46
135	Copy-when-uncertain: bumblebees rely on social information when rewards are highly variable. Biology Letters, 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. Brain, Behavior and Evolution, 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. PLoS Computational Biology, 2013, 9, e1002938.	1.5	43
139	Flower Iridescence Increases Object Detection in the Insect Visual System without Compromising Object Identity. Current Biology, 2016, 26, 802-808.	1.8	43
140	Counting insects. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20160513.	1.8	43
141	Weak and contradictory effects of self-medication with nectar nicotine by parasitized bumblebees. F1000Research, 2015, 4, 73.	0.8	42
142	Bees use three-dimensional information to improve target detection. Die Naturwissenschaften, 2010, 97, 229-233.	0.6	41
143	Animal Cognition: Concepts from Apes to Bees. Current Biology, 2011, 21, R116-R119.	1.8	41
144	Information processing in miniature brains. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 885-888.	1.2	41

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145	Colour constancy in insects. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 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). Annals of Botany, 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. PLoS Computational Biology, 2017, 13, e1005333.	1.5	40
148	Social Learning: Public Information in Insects. Current Biology, 2005, 15, R869-R871.	1.8	39
149	Bird pollination of Canary Island endemic plants. Die Naturwissenschaften, 2009, 96, 221-232.	0.6	39
150	Circadian Foraging Rhythms of Bumblebees Monitored by Radio-frequency Identification. Journal of Biological Rhythms, 2010, 25, 257-267.	1.4	39
151	Speedâ€“accuracy trade-offs and individually consistent decision making by individuals and dyads of zebrafish in a colour discrimination task. Animal Behaviour, 2015, 103, 277-283.	0.8	38
152	Dominance of Celestial Cues over Landmarks Disproves Map-Like Orientation in Honey Bees. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1990, 45, 723-726.	0.6	37
153	Epigenetics of Royalty. PLoS Biology, 2010, 8, e1000532.	2.6	36
154	The influence of past experience with flower reward quality on social learning in bumblebees. Animal Behaviour, 2015, 101, 11-18.	0.8	36
155	Local enhancement or stimulus enhancement? Bumblebee social learning results in a specific pattern of flower preference. Animal Behaviour, 2014, 97, 185-191.	0.8	35
156	DiffÃ©rences Interindividuelles en termes d'Apprentissage des Couleurs, Formes et Odeurs chez le Bourdon (Hymenoptera: Apidae: Bombus terrestris). Entomologia Generalis, 2012, 34, 1-8.	1.1	35
157	Bumblebee social learning can lead to suboptimal foraging choices. Animal Behaviour, 2018, 135, 209-214.	0.8	34
158	Gut microbiome drives individual memory variation in bumblebees. Nature Communications, 2021, 12, 6588.	5.8	34
159	The spectral input to honeybee visual odometry. Journal of Experimental Biology, 2003, 206, 2393-2397.	0.8	33
160	Bumblebees (<i>Bombus terrestris</i>) use social information as an indicator of safety in dangerous environments. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20133174.	1.2	33
161	Vergleich der BlÃ¼tenstetigkeit und Sammelleistung von drei Hummel-Arten (Hymenoptera: Apidae:) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	33
162	A failed invasion? Commercially introduced pollinators in Southern France. Apidologie, 2010, 41, 1-13.	0.9	32

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163	Spatiotemporal Dynamics of Bumblebees Foraging under Predation Risk. Physical Review Letters, 2012, 108, 098103.	2.9	32
164	Can bees simultaneously engage in adaptive foraging behaviour andÂattend to cryptic predators?. Animal Behaviour, 2013, 86, 859-866.	0.8	32
165	Speed and accuracy in nest-mate recognition: a hover wasp prioritizes face recognition over colony odour cues to minimize intrusion by outsiders. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142750.	1.2	32
166	Behavioural evidence for self-medication in bumblebees?. F1000Research, 0, 4, 73.	0.8	32
167	Pollinator behavior and plant speciation: looking beyond the â€œethological isolationâ€•paradigm. , 2001, , 318-336.		31
168	Animal Personalities: The Advantage of Diversity. Current Biology, 2008, 18, R961-R963.	1.8	31
169	Harmonic radar tracking reveals random dispersal pattern of bumblebee (Bombus terrestris) queens after hibernation. Scientific Reports, 2019, 9, 4651.	1.6	31
170	Insect-Inspired Sequential Inspection Strategy Enables an Artificial Network of Four Neurons to Estimate Numerosity. IScience, 2019, 11, 85-92.	1.9	31
171	Observational Conditioning in Flower Choice Copying by Bumblebees (Bombus terrestris): Influence of Observer Distance and Demonstrator Movement. PLoS ONE, 2014, 9, e88415.	1.1	31
172	Honeybee Longâ€distance Orientation in a Controlled Environment. Ethology, 1995, 99, 117-126.	0.5	30
173	Determining the Contribution of Epidermal Cell Shape to Petal Wettability Using Isogenic Antirrhinum Lines. PLoS ONE, 2011, 6, e17576.	1.1	30
174	Unravelling the mechanisms of trapline foraging in bees. Communicative and Integrative Biology, 2013, 6, e22701.	0.6	30
175	Associative visual learning by tethered bees in a controlled visual environment. Scientific Reports, 2017, 7, 12903.	1.6	30
176	Partnerwahl-PrÃ¤ferenzen bei der kommerziell importierten Hummel-Art Bombus terrestris in GroÃŸbritannien (Hymenoptera: Apidae). Entomologia Generalis, 2005, 28, 233-238.	1.1	30
177	Pollinator individuality: when does it matter?. , 2001, , 191-213.		29
178	The promise of genomics in the study of plant-pollinator interactions. Genome Biology, 2013, 14, 207.	3.8	29
179	Subjective evaluation and choice behavior by nectar-and pollen-collecting bees. , 2001, , 41-60.		28
180	â€˜Personalityâ€™ in bumblebees: individual consistency in responses to novel colours?. Animal Behaviour, 2010, 80, 1065-1074.	0.8	28

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181	Your face looks familiar. Nature, 2012, 481, 154-155.	13.7	28
182	Signatures of a globally optimal searching strategy in the three-dimensional foraging flights of bumblebees. Scientific Reports, 2016, 6, 30401.	1.6	28
183	Do inexperienced bumblebee foragers use scent marks as social information?. Animal Cognition, 2011, 14, 915-919.	0.9	27
184	Epigenetics: The Making of Ant Castes. Current Biology, 2012, 22, R835-R838.	1.8	27
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