Natalie Hempel de Ibarra

List of Publications by Year
in descending order

62 papers	2,301 citations	201674 27 h-index	233421 45 g-index
67 all docs	67 docs citations	67 times ranked	1816 citing authors

#	Article	IF	Citations
1	Artificial light pollution: are shifting spectral signatures changing the balance of species interactions?. Global Change Biology, 2013, 19, 1417-1423.	9.5	181
2	Mechanisms, functions and ecology of colour vision in the honeybee. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2014, 200, 411-433.	1.6	139
3	Differential sensitivity of honey bees and bumble bees to a dietary insecticide (imidacloprid). Zoology, 2012, 115, 365-371.	1.2	128
4	Symmetry is in the eye of the ?beeholder?: innate preference for bilateral symmetry in flower-naï¿½ve bumblebees. Die Naturwissenschaften, 2004, 91, 374-7.	1.6	101
5	Detection of coloured patterns by honeybees through chromatic and achromatic cues. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2001, 187, 215-224.	1.6	93
6	Assessment of pollen rewards by foraging bees. Functional Ecology, 2017, 31, 76-87.	3.6	93
7	Priming of visual route memories. Nature, 2005, 438, 302-302.	27.8	90
8	Navigational Memories in Ants and Bees: Memory Retrieval When Selecting and Following Routes. Advances in the Study of Behavior, 2006, 36, 123-172.	1.6	87
9	More than colour attraction: behavioural functions of flower patterns. Current Opinion in Insect Science, 2015, 12, 64-70.	4.4	72
10	Discrimination of coloured patterns by honeybees through chromatic and achromatic cues. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 503-512.	1.6	69
11	Detection of bright and dim colours by honeybees. Journal of Experimental Biology, 2000, 203, 3289-3298.	1.7	68
12	Bumblebee calligraphy: the design and control of flight motifs in the learning and return flights of<i>Bombus terrestris</i>. Journal of Experimental Biology, 2013, 216, 1093-1104.	1.7	64
13	Colourful objects through animal eyes. Color Research and Application, 2001, 26, S214-S217.	1.6	61
14	Detection of patches of coloured discs by bees. Journal of Experimental Biology, 2008, 211, 2101-2104.	1.7	61
15	Fast learning but coarse discrimination of colours in restrained honeybees. Journal of Experimental Biology, 2009, 212, 1344-1350.	1.7	60
16	The diversity of floral temperature patterns, and their use by pollinators. ELife, 2017, 6, .	6.0	58
17	Preferred viewing directions of bumblebees (Bombus terrestrisL.) when learning and approaching their nest site. Journal of Experimental Biology, 2009, 212, 3193-3204.	1.7	55
18	Detection of bright and dim colours by honeybees. Journal of Experimental Biology, 2000, 203, 3289-98.	1.7	49

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19	Adaptation of microglomerular complexes in the honeybee mushroom body lip to manipulations of behavioral maturation and sensory experience. Developmental Neurobiology, 2008, 68, 1007-1017.	3.0	48
20	Discrimination of closed coloured shapes by honeybees requires only contrast to the long wavelength receptor type. Animal Behaviour, 2003, 66, 903-910.	1.9	46
21	Head movements and the optic flow generated during the learning flights of bumblebees. Journal of Experimental Biology, 2014, 217, 2633-2642.	1.7	45
22	How to look like a mallow: evidence of floral mimicry between Turneraceae and Malvaceae. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 2239-2248.	2.6	44
23	Flower patterns are adapted for detection by bees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2009, 195, 319-323.	1.6	43
24	The effect of dietary neonicotinoid pesticides on non-flight thermogenesis in worker bumble bees (Bombus terrestris). Journal of Insect Physiology, 2018, 104, 33-39.	2.0	37
25	Reporting of thermography parameters in biology: a systematic review of thermal imaging literature. Royal Society Open Science, 2018, 5, 181281.	2.4	37
26	Bees associate colour cues with differences in pollen rewards. Journal of Experimental Biology, 2014, 217, 2783-8.	1.7	34
27	Colour-dependent target detection by bees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2003, 189, 915-918.	1.6	29
28	Coordinating compass-based and nest-based flight directions during bumblebee learning and return flights. Journal of Experimental Biology, 2013, 216, 1105-1113.	1.7	29
29	Characterisation of the RNA interference response against the long-wavelength receptor of the honeybee. Insect Biochemistry and Molecular Biology, 2013, 43, 959-969.	2.7	24
30	Variations on a theme: bumblebee learning flights from the nest and from flowers. Journal of Experimental Biology, 2018, 221, .	1.7	24
31	Different parameters support generalization and discrimination learning in Drosophila at the flight simulator. Learning and Memory, 2006, 13, 629-637.	1.3	22
32	Male bumblebees perform learning flights on leaving a flower but not when leaving their nest. Journal of Experimental Biology, 2017, 220, 930-937.	1.7	22
33	Motion cues improve the performance of harnessed bees in a colour learning task. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2015, 201, 505-511.	1.6	21
34	Do "White" and "Green" Look the Same to a Bee?. Die Naturwissenschaften, 1999, 86, 592-594.	1.6	20
35	A comparative analysis of colour preferences in temperate and tropical social bees. Die Naturwissenschaften, 2018, 105, 8.	1.6	20
36	Floral Humidity in Flowering Plants: A Preliminary Survey. Frontiers in Plant Science, 2020, 11, 249.	3.6	19

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37	Olfactory Detectability of L-Amino Acids in the European Honeybee (Apis mellifera). Chemical Senses, 2012, 37, 631-638.	2.0	17
38	What can be learnt from analysing insect orientation flights using probabilistic SLAM?. Biological Cybernetics, 2009, 101, 169-182.	1.3	16
39	Floral temperature patterns can function as floral guides. Arthropod-Plant Interactions, 2020, 14, 193-206.	1.1	16
40	Bumblebees can detect floral humidity. Journal of Experimental Biology, 2021, 224, .	1.7	16
41	How to stay perfect: the role of memory and behavioural traits in an experienced problem and a similar problem. Animal Cognition, 2017, 20, 941-952.	1.8	15
42	The Dominant Role of Visual Motion Cues in Bumblebee Flight Control Revealed Through Virtual Reality. Frontiers in Physiology, 2018, 9, 1038.	2.8	14
43	Pollen Elicits Proboscis Extension but Does not Reinforce PER Learning in Honeybees. Insects, 2013, 4, 542-557.	2.2	11
44	Do wood ants learn sequences of visual stimuli?. Journal of Experimental Biology, 2011, 214, 2739-2748.	1.7	10
45	â€˜The thieving magpieâ€™? No evidence for attraction to shiny objects. Animal Cognition, 2015, 18, 393-397.	1.8	10
46	Small and Large Bumblebees Invest Differently when Learning about Flowers. Current Biology, 2021, 31, 1058-1064.e3.	3.9	10
47	Remote Sensing of Floral Resources for Pollinators â€“ New Horizons From Satellites to Drones. Frontiers in Ecology and Evolution, 2022, 10, .	2.2	8
48	Insect Navigation: How Do Wasps Get Home?. Current Biology, 2016, 26, R166-R168.	3.9	7
49	Inhibitory control and memory in the search process for a modified problem in grey squirrels, Sciurus carolinensis. Animal Cognition, 2019, 22, 645-655.	1.8	7
50	Onset of morning activity in bumblebee foragers under natural low light conditions. Ecology and Evolution, 2021, 11, 6536-6545.	1.9	7
51	The role of spatial texture in visual control of bumblebee learning flights. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2018, 204, 737-745.	1.6	6
52	Approach Direction Prior to Landing Explains Patterns of Colour Learning in Bees. Frontiers in Physiology, 2021, 12, 697886.	2.8	6
53	Pollination: Influencing bee behaviour with caffeine. Current Biology, 2021, 31, R1090-R1092.	3.9	5
54	Flower sharing and pollinator health: a behavioural perspective. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20210157.	4.0	5

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55	Honey Bee Vision in Relation to Flower Patterns. , 2012, , 285-301.		4
56	Differences in color learning between pollen- and sucrose-rewarded bees. Communicative and Integrative Biology, 2015, 8, e1052921.	1.4	4
57	Preferred viewing directions of bumblebees (<i>Bombus terrestris</i>L.) when learning and approaching their nest site. Journal of Experimental Biology, 2009, 212, 3769-3769.	1.7	2
58	Learning of colored targets with vertical and horizontal components by bumblebees (<i>Bombus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	2
59	How are pollinators guided by colourful floral structures? A commentary on: â€˜The role of pollinator preference in the maintenance of pollen colour variationâ€™. Annals of Botany, 2019, 123, iv-vi.	2.9	2
60	A matter of taste: the adverse effect of pollen compounds on the pre-ingestive gustatory experience of sugar solutions for honeybees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 333-346.	1.6	2
61	Blackawton bees: commentary on Blackawton, P. S. et al.. Biology Letters, 2011, 7, 166-167.	2.3	1
62	Insect navigation: Some memories like it hot. Current Biology, 2022, 32, R81-R84.	3.9	1