Marie Dacke

List of Publications by Year
in descending order

53	2,254	218677	243625
papers	citations	26 h-index	44 g-index

58	58	58	1203
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cold-induced anesthesia impairs path integration memory in dung beetles. Current Biology, 2022, 32, 438-444.e3.	3.9	7
2	The interplay of directional information provided by unpolarised and polarised light in the heading direction network of the diurnal dung beetle Kheper lamarcki. Journal of Experimental Biology, 2022, 225, .	1.7	8
3	How Dung Beetles Steer Straight. Annual Review of Entomology, 2021, 66, 243-256.	11.8	24
4	Compass Cue Integration and Its Relation to the Visual Ecology of Three Tribes of Ball-Rolling Dung Beetles. Insects, 2021, 12, 526.	2.2	3
5	Dorsal landmark navigation in a Neotropical nocturnal bee. Current Biology, 2021, 31, 3601-3605.e3.	3.9	5
6	A unified platform to manage, share, and archive morphological and functional data in insect neuroscience. ELife, 2021, 10, .	6.0	21
7	Light pollution forces a change in dung beetle orientation behavior. Current Biology, 2021, 31, 3935-3942.e3.	3.9	31
8	Insect Orientation: The Drosophila Wind Compass Pathway. Current Biology, 2021, 31, R83-R85.	3.9	7
9	Straight-line orientation in the woodland-living beetle Sisyphus fasciculatus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2020, 206, 327-335.	1.6	10
10	A dung beetle that path integrates without the use of landmarks. Animal Cognition, 2020, 23, 1161-1175.	1.8	20
11	Accelerated landings in stingless bees are triggered by visual threshold cues. Biology Letters, 2020, 16, 20200437.	2.3	6
12	Accelerated landing in a stingless bee and its unexpected benefits for traffic congestion. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20192720.	2.6	7
13	Rules for the Leg Coordination of Dung Beetle Ball Rolling Behaviour. Scientific Reports, 2020, 10, 9278.	3.3	6
14	Orienting to polarized light at nightâ€”matching lunar skylight to performance in a nocturnal beetle. Journal of Experimental Biology, 2019, 222, .	1.7	15
15	The effect of step size on straight-line orientation. Journal of the Royal Society Interface, 2019, 16, 20190181.	3.4	13
16	The role of optic flow pooling in insect flight control in cluttered environments. Scientific Reports, 2019, 9, 7707.	3.3	37
17	Multimodal cue integration in the dung beetle compass. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14248-14253.	7.1	57
18	The brain behind straight-line orientation in dung beetles. Journal of Experimental Biology, 2019, 222, .	1.7	38

#	Article	IF	Citations
19	How animals follow the stars. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20172322.	2.6	39
20	The Dung Beetle Compass. Current Biology, 2018, 28, R993-R997.	3.9	39
21	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
22	Neuroarchitecture of the dung beetle central complex. Journal of Comparative Neurology, 2018, 526, 2612-2630.	1.6	47
23	Differences in spatial resolution and contrast sensitivity of flight control in the honeybees Apis cerana and Apis mellifera. Journal of Experimental Biology, 2018, 221, .	1.7	16
24	Anatomical organization of the brain of a diurnal and a nocturnal dung beetle. Journal of Comparative Neurology, 2017, 525, 1879-1908.	1.6	63
25	Stellar performance: mechanisms underlying Milky Way orientation in dung beetles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160079.	4.0	33
26	How bumblebees use lateral and ventral optic flow cues for position control in environments of different proximity. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2017, 203, 343-351.	1.6	23
27	High contrast sensitivity for visually guided flight control in bumblebees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2017, 203, 999-1006.	1.6	15
28	Spatial Vision in Bombus terrestris. Frontiers in Behavioral Neuroscience, 2016, 10, 17.	2.0	25
29	Bumblebees Perform Well-Controlled Landings in Dim Light. Frontiers in Behavioral Neuroscience, 2016, 10, 174.	2.0	12
30	Finding the gap: a brightness-based strategy for guidance in cluttered environments. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152988.	2.6	36
31	Visual Navigation in Nocturnal Insects. Physiology, 2016, 31, 182-192.	3.1	60
32	A Snapshot-Based Mechanism for Celestial Orientation. Current Biology, 2016, 26, 1456-1462.	3.9	72
33	Fecal-Derived Phenol Induces Egg-Laying Aversion in Drosophila. Current Biology, 2016, 26, 2762-2769.	3.9	68
34	The final moments of landing in bumblebees, Bombus terrestris. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2016, 202, 277-285.	1.6	33
35	Bumblebee flight performance in environments of different proximity. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2016, 202, 97-103.	1.6	34
36	Night sky orientation with diurnal and nocturnal eyes: dim-light adaptations are critical when the moon is out of sight. Animal Behaviour, 2016, 111, 127-146.	1.9	26

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37	Spectral information as an orientation cue in dung beetles. Biology Letters, 2015, 11, 20150656.	2.3	40
38	Bumblebees measure optic flow for position and speed control flexibly within the frontal visual field. Journal of Experimental Biology, 2015, 218, 1051-1059.	1.7	44
39	Effect of light intensity on flight control and temporal properties of photoreceptors in bumblebees. Journal of Experimental Biology, 2015, 218, 1339-46.	1.7	47
40	Neural coding underlying the cue preference for celestial orientation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11395-11400.	7.1	166
41	Control of self-motion in dynamic fluids: fish do it differently from bees. Biology Letters, 2014, 10, 20140279.	2.3	20
42	Diurnal dung beetles use the intensity gradient and the polarization pattern of the sky for orientation. Journal of Experimental Biology, 2014, 217, 2422-9.	1.7	61
43	Polarized Light Orientation in Ball-Rolling Dung Beetles. , 2014, , 27-39.		8
44	Dung Beetles Use the Milky Way for Orientation. Current Biology, 2013, 23, 298-300.	3.9	178
45	Dung beetles ignore landmarks for straight-line orientation. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 17-23.	1.6	38
46	Visual flight control in naturalistic and artificial environments. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 869-876.	1.6	21
47	The Dung Beetle Dance: An Orientation Behaviour?. PLoS ONE, 2012, 7, e30211.	2.5	42
48	Bearing selection in ball-rolling dung beetles: is it constant?. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 801-806.	1.6	23
49	Minimum viewing angle for visually guided ground speed control in bumblebees. Journal of Experimental Biology, 2010, 213, 1625-1632.	1.7	54
50	Lunar orientation in a beetle. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 361-365.	2.6	102
51	Visual cues used by ball-rolling dung beetles for orientation. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2003, 189, 411-418.	1.6	75
52	Insect orientation to polarized moonlight. Nature, 2003, 424, 33-33.	27.8	252
53	Twilight orientation to polarised light in the crepuscular dung beetleScarabaeus zambesianus. Journal of Experimental Biology, 2003, 206, 1535-1543.	1.7	106