Jochen Smolka

List of Publications by Citations

20 papers	525 citations	14 h-index	21 g-index
21 ext. papers	683 ext. citations	4.2 avg, IF	3.85 L-index

#	Paper	IF	Citations
20	Neural coding underlying the cue preference for celestial orientation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 11395-400	11.5	115
19	Topography of vision and behaviour. *Journal of Experimental Biology*, **2009**, 212, 3522-32	3	48
18	Diurnal dung beetles use the intensity gradient and the polarization pattern of the sky for orientation. *Journal of Experimental Biology*, **2014**, 217, 2422-9	3	45
17	The role of the sun in the celestial compass of dung beetles. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2014**, 369, 20130036	5.8	39
16	The dung beetle dance: an orientation behaviour?. *PLoS ONE*, **2012**, 7, e30211	3.7	35
15	Dung beetles ignore landmarks for straight-line orientation. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2013**, 199, 17-23	2.3	33
14	Natural visual cues eliciting predator avoidance in fiddler crabs. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 3584-92	4.4	30
13	Stellar performance: mechanisms underlying Milky Way orientation in dung beetles. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2017**, 372,	5.8	25
12	Dung beetles use their dung ball as a mobile thermal refuge. *Current Biology*, **2012**, 22, R863-4	6.3	23
11	How animals follow the stars. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	22
10	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	2.8	21
9	The sea urchin uses low resolution vision to find shelter and deter enemies. *Journal of Experimental Biology*, **2018**, 221,	3	21
8	A new galloping gait in an insect. *Current Biology*, **2013**, 23, R913-5	6.3	19
7	Low--resolution vision in a velvet worm (Onychophora). *Journal of Experimental Biology*, **2018**, 221,	3	14
6	Quantifying biologically essential aspects of environmental light. *Journal of the Royal Society Interface*, **2021**, 18, 20210184	4.1	10
5	Orienting to polarized light at night - matching lunar skylight to performance in a nocturnal beetle. *Journal of Experimental Biology*, **2019**, 222,	3	9
4	Flicker is part of a multi-cue response criterion in fiddler crab predator avoidance. *Journal of Experimental Biology*, **2013**, 216, 1219-24	3	7

3	Light pollution forces a change in dung beetle orientation behavior. *Current Biology*, **2021**, 31, 3935-3942.e3	2.3	5
2	Resolving the Trade-off Between Visual Sensitivity and Spatial Acuity-Lessons from Hawkmoths. *Integrative and Comparative Biology*, **2017**, 57, 1093-1103	2.8	4
1	Seeing the world through the eyes of a butterfly: visual ecology of the territorial males of Pararge aegeria (Lepidoptera: Nymphalidae). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2021**, 207, 701-713	2.3	