

Aurore AvarguÃs-Weber

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,857
citations

257450

24
h-index

276875

41
g-index

45
all docs

45
docs citations

45
times ranked

1170
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning by Observation Emerges from Simple Associations in an Insect Model. <i>Current Biology</i> , 2013, 23, 727-730.	3.9	163
2	Visual Cognition in Social Insects. <i>Annual Review of Entomology</i> , 2011, 56, 423-443.	11.8	156
3	Numerical ordering of zero in honey bees. <i>Science</i> , 2018, 360, 1124-1126.	12.6	145
4	Simultaneous mastering of two abstract concepts by the miniature brain of bees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7481-7486.	7.1	135
5	Conceptual learning by miniature brains. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131907.	2.6	128
6	Aversive Reinforcement Improves Visual Discrimination Learning in Free-Flying Honeybees. <i>PLoS ONE</i> , 2010, 5, e15370.	2.5	127
7	Conceptualization of above and below relationships by an insect. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 898-905.	2.6	89
8	Numerical cognition in honeybees enables addition and subtraction. <i>Science Advances</i> , 2019, 5, eaav0961.	10.3	84
9	Cognitive components of color vision in honey bees: how conditioning variables modulate color learning and discrimination. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2014, 200, 449-461.	1.6	57
10	Honeybees use absolute rather than relative numerosity in number discrimination. <i>Biology Letters</i> , 2019, 15, 20190138.	2.3	55
11	The forest or the trees: preference for global over local image processing is reversed by prior experience in honeybees. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142384.	2.6	43
12	New vistas on honey bee vision. <i>Apidologie</i> , 2012, 43, 244-268.	2.0	37
13	Learning context modulates aversive taste strength in honey bees. <i>Journal of Experimental Biology</i> , 2015, 218, 949-959.	1.7	36
14	Local enhancement or stimulus enhancement? Bumblebee social learning results in a specific pattern of flower preference. <i>Animal Behaviour</i> , 2014, 97, 185-191.	1.9	35
15	Transfer of Visual Learning Between a Virtual and a Real Environment in Honey Bees: The Role of Active Vision. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 139.	2.0	35
16	Bumblebee social learning can lead to suboptimal foraging choices. <i>Animal Behaviour</i> , 2018, 135, 209-214.	1.9	34
17	Assessing the ecological significance of bee visual detection and colour discrimination on the evolution of flower colours. <i>Evolutionary Ecology</i> , 2017, 31, 153-172.	1.2	33
18	Conceptualization of relative size by honeybees. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 80.	2.0	32

#	ARTICLE	IF	CITATIONS
19	Using virtual reality to study visual performances of honeybees. <i>Current Opinion in Insect Science</i> , 2017, 24, 43-50.	4.4	32
20	Observational Conditioning in Flower Choice Copying by Bumblebees (<i>Bombus terrestris</i>): Influence of Observer Distance and Demonstrator Movement. <i>PLoS ONE</i> , 2014, 9, e88415.	2.5	31
21	Associative visual learning by tethered bees in a controlled visual environment. <i>Scientific Reports</i> , 2017, 7, 12903.	3.3	30
22	Advances and limitations of visual conditioning protocols in harnessed bees. <i>Journal of Physiology (Paris)</i> , 2016, 110, 107-118.	2.1	29
23	Free-flying honeybees extrapolate relational size rules to sort successively visited artificial flowers in a realistic foraging situation. <i>Animal Cognition</i> , 2017, 20, 627-638.	1.8	29
24	Does Holistic Processing Require a Large Brain? Insights From Honeybees and Wasps in Fine Visual Recognition Tasks. <i>Frontiers in Psychology</i> , 2018, 9, 1313.	2.1	29
25	Honeybees prefer novel insect-pollinated flower shapes over bird-pollinated flower shapes. <i>Environmental Epigenetics</i> , 2019, 65, 457-465.	1.8	28
26	Symbolic representation of numerosity by honeybees (<i>Apis mellifera</i>): matching characters to small quantities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190238.	2.6	28
27	Surpassing the subitizing threshold: appetitive-aversive conditioning improves discrimination of numerosities in honeybees. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	24
28	Aminergic neuromodulation of associative visual learning in harnessed honey bees. <i>Neurobiology of Learning and Memory</i> , 2018, 155, 556-567.	1.9	22
29	Perception of contextual size illusions by honeybees in restricted and unrestricted viewing conditions. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20172278.	2.6	20
30	Spontaneous quantity discrimination of artificial flowers by foraging honeybees. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	20
31	Visual learning in a virtual reality environment upregulates immediate early gene expression in the mushroom bodies of honey bees. <i>Communications Biology</i> , 2022, 5, 130.	4.4	16
32	Achieving arithmetic learning in honeybees and examining how individuals learn. <i>Communicative and Integrative Biology</i> , 2019, 12, 166-170.	1.4	13
33	Different mechanisms underlie implicit visual statistical learning in honey bees and humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25923-25934.	7.1	13
34	Individual recognition is associated with holistic face processing in <i>Polistes</i> paper wasps in a species-specific way. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20203010.	2.6	12
35	Higher-order discrimination learning by honeybees in a virtual environment. <i>European Journal of Neuroscience</i> , 2020, 51, 681-694.	2.6	11
36	Evidence of cognitive specialization in an insect: proficiency is maintained across elemental and higher-order visual learning but not between sensory modalities in honey bees. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	11

#	ARTICLE	IF	CITATIONS
37	Motion cues from the background influence associative color learning of honey bees in a virtual-reality scenario. <i>Scientific Reports</i> , 2021, 11, 21127.	3.3	9
38	Face Recognition: Lessons from a Wasp. <i>Current Biology</i> , 2012, 22, R91-R93.	3.9	6
39	Sameness/difference spiking neural circuit as a relational concept precursor model: A bio-inspired robotic implementation. <i>Biologically Inspired Cognitive Architectures</i> , 2017, 21, 59-66.	0.9	5
40	Reply to comment on Howard et al . (2019): 'Nothing to dance about: unclear evidence for symbolic representations and numerical competence in honeybees'. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20200095.	2.6	4
41	The Neural Signature of Visual Learning Under Restrictive Virtual-Reality Conditions. <i>Frontiers in Behavioral Neuroscience</i> , 2022, 16, 846076.	2.0	4
42	Numerosity Categorization by Parity in an Insect and Simple Neural Network. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	3
43	Naïve and Experienced Honeybee Foragers Learn Normally Configured Flowers More Easily Than Non-configured or Highly Contrasted Flowers. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	2
44	Increasingly complex internal visual representations in honeybees, human infants and adults. <i>Journal of Vision</i> , 2019, 19, 292c.	0.3	0