Axel Brockmann

List of Publications by Year
in descending order

58	2,331	304743	233421
papers	citations	22 h-index	45 g-index

69	69	69	2349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Behavioral performance in adult honey bees is influenced by the temperature experienced during their pupal development. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7343-7347.	7.1	243
2	A honey bee odorant receptor for the queen substance 9-oxo-2-decenoic acid. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14383-14388.	7.1	198
3	Size determines antennal sensitivity and behavioral threshold to odors in bumblebee workers. Die Naturwissenschaften, 2007, 94, 733-739.	1.6	152
4	Honeybee Odometry: Performance in Varying Natural Terrain. PLoS Biology, 2004, 2, e211.	5.6	126
5	Quantitative peptidomics reveal brain peptide signatures of behavior. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2383-2388.	7.1	125
6	Adult honeybees (Apis mellifera L.) abandon hemocytic, but not phenoloxidase-based immunity. Journal of Insect Physiology, 2008, 54, 439-444.	2.0	122
7	Immune response inhibits associative learning in insects. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2471-2473.	2.6	111
8	The parasitic mite Varroa destructor affects non-associative learning in honey bee foragers, Apis mellifera L.. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2007, 193, 363-370.	1.6	81
9	Sex and Caste-Specific Variation in Compound Eye Morphology of Five Honeybee Species. PLoS ONE, 2013, 8, e57702.	2.5	80
10	Beyond 9-ODA: SEX Pheromone Communication in the European Honey Bee Apis mellifera L.. Journal of Chemical Ecology, 2006, 32, 657-667.	1.8	73
11	Perception Spaceâ€"The Final Frontier. PLoS Biology, 2005, 3, e137.	5.6	65
12	Structural differences in the drone olfactory system of two phylogenetically distant Apis species, A. florea and A. mellifera. Die Naturwissenschaften, 2001, 88, 78-81.	1.6	61
13	Investigating the viral ecology of global bee communities with high-throughput metagenomics. Scientific Reports, 2018, 8, 8879.	3.3	58
14	A field-based quantitative analysis of sublethal effects of air pollution on pollinators. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20653-20661.	7.1	58
15	Octopamine Drives Endurance Exercise Adaptations in Drosophila. Cell Reports, 2017, 21, 1809-1823.	6.4	56
16	Central Projections of Sensory Systems Involved in Honey Bee Dance Language Communication. Brain, Behavior and Evolution, 2007, 70, 125-136.	1.7	55
17	The EAG Response Spectra of Workers and Drones to Queen Honeybee Mandibular Gland Components: The Evolution of a Social Signal. Die Naturwissenschaften, 1998, 85, 283-285.	1.6	51
18	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.	1.6	48

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19	Identification of Complete Repertoire ofApis floreaOdorant Receptors Reveals Complex Orthologous Relationships withApis mellifera. Genome Biology and Evolution, 2016, 8, 2879-2895.	2.5	37
20	Pharyngeal stimulation with sugar triggers local searching behavior in Drosophila. Journal of Experimental Biology, 2017, 220, 3231-3237.	1.7	31
21	Agatoxin-like peptides in the neuroendocrine system of the honey bee and other insects. Journal of Proteomics, 2016, 132, 77-84.	2.4	30
22	Honey bee foraging induces upregulation of early growth response protein 1, hormone receptor 38 and candidate downstream genes of the ecdysteroid signalling pathway. Insect Molecular Biology, 2018, 27, 90-98.	2.0	30
23	Immediate early genes in social insects: a tool to identify brain regions involved in complex behaviors and molecular processes underlying neuroplasticity. Cellular and Molecular Life Sciences, 2019, 76, 637-651.	5.4	29
24	Organization and Potential Function of themrjp3Locus in Four Honeybee Species. Journal of Agricultural and Food Chemistry, 2005, 53, 8075-8081.	5.2	28
25	Adaptive evolution of honeybee dance dialects. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200190.	2.6	25
26	Downregulation of the tyrosine degradation pathway extends Drosophila lifespan. ELife, 2020, 9, .	6.0	25
27	Species composition and elevational distribution of bumble bees (Hymenoptera, Apidae, Bombus) Tj ETQq1 1 0.784314 rgBT /Overloc	1.1	23
28	Brain regions and molecular pathways responding to food reward type and value in honey bees. Genes, Brain and Behavior, 2016, 15, 305-317.	2.2	21
29	Sugar Intake Elicits Intelligent Searching Behavior in Flies and Honey Bees. Frontiers in Behavioral Neuroscience, 2018, 12, 280.	2.0	21
30	Social modulation of individual differences in dance communication in honey bees. Behavioral Ecology and Sociobiology, 2019, 73, 1.	1.4	21
31	Egr-1: A Candidate Transcription Factor Involved in Molecular Processes Underlying Time-Memory. Frontiers in Psychology, 2018, 9, 865.	2.1	18
32	Projection pattern of poreplate sensory neurones in honey bee worker, Apis mellifera L. (Hymenoptera) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.4	17
33	Wax perception in honeybees: contact is not necessary. Die Naturwissenschaften, 2003, 90, 424-427.	1.6	17
34	Drones of the Dwarf Honey Bee Apis Florea Are Attracted to (2E)-9-Oxodecenoic Acid and (2E)-10-Hydroxydecenoic Acid. Journal of Chemical Ecology, 2009, 35, 653-655.	1.8	17
35	Computational genome-wide survey of odorant receptors from two solitary bees Dufourea novaeangliae (Hymenoptera: Halictidae) and Habropoda laboriosa (Hymenoptera: Apidae). Scientific Reports, 2017, 7, 10823.	3.3	17
36	Interâ€individual variation in honey bee dance intensity correlates with expression of the foraging gene. Genes, Brain and Behavior, 2020, 19, e12592.	2.2	16

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37	Time-restricted foraging under natural light/dark condition shifts the molecular clock in the honey bee,Apis mellifera. Chronobiology International, 2018, 35, 1723-1734.	2.0	12
38	Honey bees flexibly use two navigational memories when updating dance distance information. Journal of Experimental Biology, 2019, 222, .	1.7	11
39	Sex-specific molecular specialization and activity rhythm dependent gene expression in honey bee antennae. Journal of Experimental Biology, 2020, 223, .	1.7	11
40	Geographical distribution of the giant honey bee Apis laboriosa Smith, 1871 (Hymenoptera, Apidae). ZooKeys, 2020, 951, 67-81.	1.1	11
41	Dimorphic antennal systems in gynandromorphic honey bees, Apis Mellifera l. (Hymenoptera: Apidae). Arthropod Structure and Development, 1999, 28, 53-60.	0.4	10
42	Mass Spectrometric Quantification of Arousal Associated Neurochemical Changes in Single Honey Bee Brains and Brain Regions. ACS Chemical Neuroscience, 2019, 10, 1950-1959.	3.5	9
43	Temporal and spatial foraging patterns of three Asian honey bee species in Bangalore, India. Apidologie, 2021, 52, 503-523.	2.0	9
44	Selective blocking of contact chemosensilla in Apis mellifera. Apidologie, 2002, 33, 33-40.	2.0	9
45	Structural and temporal dynamics of the bee curtain in the open-nesting honey bee species, Apis florea. Apidologie, 2016, 47, 749-758.	2.0	8
46	Learning of monochromatic stimuli in Apis cerana and Apis mellifera by means of PER conditioning. Journal of Insect Physiology, 2019, 114, 30-34.	2.0	8
47	A hard dayâ€™s night: Patterns in the diurnal and nocturnal foraging behavior of Apis dorsata across lunar cycles and seasons. PLoS ONE, 2021, 16, e0258604.	2.5	6
48	Honeybee dance language: is it overrated?. Trends in Ecology and Evolution, 2009, 24, 583-583.	8.7	5
49	Apis florea workers show a prolonged period of nursing behavior. Apidologie, 2019, 50, 63-70.	2.0	5
50	Distance estimation by Asian honey bees in two visually different landscapes. Journal of Experimental Biology, 2021, 224, .	1.7	5
51	Adaptive tuning of the exploitation-exploration trade-off in four honey bee species. Behavioral Ecology and Sociobiology, 2021, 75, 1.	1.4	4
52	Similarities in dance follower behaviour across honey bee species suggest a conserved mechanism of dance communication. Animal Behaviour, 2020, 169, 139-155.	1.9	3
53	Tyramine 1 Receptor Distribution in the Brain of Corbiculate Bees Points to a Conserved Function. Brain, Behavior and Evolution, 2021, 96, 13-25.	1.7	3
54	Nesting ecology does not explain slowâ€“fast cognitive differences among honeybee species. Animal Cognition, 2021, 24, 1227-1235.	1.8	3

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55	Search Behavior of Individual Foragers Involves Neurotransmitter Systems Characteristic for Social Scouting. Frontiers in Insect Science, 2021, 1, .	2.1	3
56	Neurogenomic and Neurochemical Dissection of Honey Bee Dance Communication. , 2012, , 323-339.		2
57	Drone congregation areas of red dwarf honeybee, Apis florea. Nature Precedings, 2009, , .	0.1	1
58	Reply to Negri et al.: Air pollution and health impacts on bees: Signs of causation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26578-26579.	7.1	0