Alison R Mercer

List of Publications by Year
in descending order

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44 papers	2,001 citations	236925 25 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	1506 citing authors

#	Article	IF	Citations
1	On the Front Line: Quantitative Virus Dynamics in Honeybee (Apis mellifera L.) Colonies along a New Expansion Front of the Parasite Varroa destructor. PLoS Pathogens, 2014, 10, e1004323.	4.7	195
2	Queen pheromone modulates brain dopamine function in worker honey bees. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2460-2464.	7.1	149
3	Serotonin Enhances Central Olfactory Neuron Responses to Female Sex Pheromone in the Male Sphinx MothManduca sexta. Journal of Neuroscience, 1999, 19, 8172-8181.	3.6	112
4	Molecular biology of the invertebrate dopamine receptors. Archives of Insect Biochemistry and Physiology, 2005, 59, 103-117.	1.5	99
5	Queen Pheromone Blocks Aversive Learning in Young Worker Bees. Science, 2007, 317, 384-386.	12.6	99
6	Structural plasticity of identified glomeruli in the antennal lobes of the adult worker honey bee. , 1996, 365, 479-490.		98
7	Analysis of two D1-like dopamine receptors from the honey bee Apis mellifera reveals agonist-independent activity. Molecular Brain Research, 2003, 113, 67-77.	2.3	89
8	Characterization of a D2-like dopamine receptor (AmDOP3) in honey bee, Apis mellifera. Insect Biochemistry and Molecular Biology, 2005, 35, 873-882.	2.7	86
9	Dopamine Receptor Activation By Honey Bee Queen Pheromone. Current Biology, 2009, 19, 1206-1209.	3.9	82
10	Antennae hold a key to Varroa-sensitive hygiene behaviour in honey bees. Scientific Reports, 2015, 5, 10454.	3.3	72
11	Honey Bee Dopamine and Octopamine Receptors Linked to Intracellular Calcium Signaling Have a Close Phylogenetic and Pharmacological Relationship. PLoS ONE, 2011, 6, e26809.	2.5	72
12	Specific Cues Associated With Honey Bee Social Defence against Varroa destructor Infested Brood. Scientific Reports, 2016, 6, 25444.	3.3	67
13	Peripheral modulation of worker bee responses to queen mandibular pheromone. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20930-20935.	7.1	64
14	The effects of queenlessness on the maturation of the honey bee olfactory system. Behavioural Brain Research, 1998, 91, 115-126.	2.2	57
15	Enhancement by serotonin of the growthin vitro of antennal lobe neurons of the sphinx mothManduca sexta. Journal of Neurobiology, 1996, 29, 49-64.	3.6	55
16	Measurements of Chlorpyrifos Levels in Forager Bees and Comparison with Levels that Disrupt Honey Bee Odor-Mediated Learning Under Laboratory Conditions. Journal of Chemical Ecology, 2016, 42, 127-138.	1.8	53
17	Mushroom bodies of the honeybee brain show cell population-specific plasticity in expression of amine-receptor genes. Learning and Memory, 2012, 19, 151-158.	1.3	43
18	Age- and behaviour-related changes in the expression of biogenic amine receptor genes in the antennae of honey bees (Apis mellifera). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2012, 198, 753-761.	1.6	42

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19	Developmental changes in expression patterns of two dopamine receptor genes in mushroom bodies of the honeybee,Apis mellifera. Journal of Comparative Neurology, 2003, 466, 91-103.	1.6	38
20	Characterisation of dopamine receptors in insect (Apis mellifera) brain. Brain Research, 1996, 706, 47-56.	2.2	37
21	Honey Bee Allatostatins Target Galanin/Somatostatin-Like Receptors and Modulate Learning: A Conserved Function?. PLoS ONE, 2016, 11, e0146248.	2.5	37
22	Development of an identified serotonergic neuron in the antennal lobe of the moth and effects of reduction in serotonin during construction of olfactory glomeruli. Journal of Neurobiology, 1995, 28, 248-267.	3.6	35
23	The New Zealand experience of varroa invasion highlights research opportunities for Australia. Ambio, 2015, 44, 694-704.	5.5	32
24	Developmental Changes in the Electrophysiological Properties and Response Characteristics ofManducaAntennal-Lobe Neurons. Journal of Neurophysiology, 2002, 87, 2650-2663.	1.8	28
25	Distribution of dopamine receptors and dopamine receptor homologs in the brain of the honey bee,Apis mellifera L.. , 1999, 44, 179-189.		27
26	Dopamine Modulation of Honey Bee (Apis mellifera) Antennal-Lobe Neurons. Journal of Neurophysiology, 2006, 95, 1147-1157.	1.8	27
27	Developmental Changes in the Density of Ionic Currents in Antennal-Lobe Neurons of the Sphinx Moth, Manduca sexta. Journal of Neurophysiology, 2002, 87, 2664-2675.	1.8	26
28	Modulatory actions of dopamine and serotonin on insect antennal lobe neurons: insights from studies in vitro. Journal of Molecular Histology, 2012, 43, 401-404.	2.2	26
29	Pharmacological and signalling properties of a D2-like dopamine receptor (Dop3) in Tribolium castaneum. Insect Biochemistry and Molecular Biology, 2015, 56, 9-20.	2.7	23
30	Queen mandibular pheromone: questions that remain to be resolved. Apidologie, 2012, 43, 292-307.	2.0	18
31	Chemical detection triggers honey bee defense against a destructive parasitic threat. Nature Chemical Biology, 2021, 17, 524-530.	8.0	17
32	Dopamine release in mushroom bodies of the honey bee (Apis mellifera L.) in response to aversive stimulation. Scientific Reports, 2018, 8, 16277.	3.3	15
33	Steroid hormone (20-hydroxyecdysone) modulates the acquisition of aversive olfactory memories in pollen forager honeybees. Learning and Memory, 2013, 20, 399-409.	1.3	14
34	C-type allatostatins mimic stress-related effects of alarm pheromone on honey bee learning and memory recall. PLoS ONE, 2017, 12, e0174321.	2.5	14
35	Juvenile Hormone Enhances Aversive Learning Performance in 2-Day Old Worker Honey Bees while Reducing Their Attraction to Queen Mandibular Pheromone. PLoS ONE, 2014, 9, e112740.	2.5	13
36	Floral usage partitioning and competition between social (Apis mellifera, Bombus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td Ecology, 2018, 43, 937-948.	1.5	12

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37	The influence of endogenous dopamine levels on the density of [ ]SCH23390-binding sites in the brain of the honey bee, Apis mellifera L. Brain Research, 2000, 855, 206-216.	2.2	10
38	Social Modulation of Stress Reactivity and Learning in Young Worker Honey Bees. PLoS ONE, 2014, 9, e113630.	2.5	6
39	Association of Amine-Receptor DNA Sequence Variants with Associative Learning in the Honeybee. Behavior Genetics, 2016, 46, 242-251.	2.1	4
40	Pheromones Acting as Social Signals Modulate Learning in Honeybees. Handbook of Behavioral Neuroscience, 2013, , 442-449.	0.7	3
41	Changes in responsiveness to allatostatin treatment accompany shifts in stress reactivity in young worker honey bees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 51-59.	1.6	3
42	A Glyoxylic Acid Method for the Localization of Catecholamines in Insect Nervous Systems. Biotechnic & Histochemistry, 1984, 59, 58-61.	0.4	1
43	Honey bees do not displace foraging bumble bees on nectar-rich artificial flowers. Apidologie, 2020, 51, 137-146.	2.0	1
44	The power of comparison. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2015, 201, 827-828.	1.6	0