

Amro Zayed

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,332
citations

201385

27
h-index

155451

55
g-index

72
all docs

72
docs citations

72
times ranked

3435
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic exposure to neonicotinoids reduces honey bee health near corn crops. <i>Science</i> , 2017, 356, 1395-1397.	6.0	385
2	Genomic signatures of evolutionary transitions from solitary to group living. <i>Science</i> , 2015, 348, 1139-1143.	6.0	357
3	Complementary sex determination substantially increases extinction proneness of haplodiploid populations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10742-10746.	3.3	267
4	Population genomics of the honey bee reveals strong signatures of positive selection on worker traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2614-2619.	3.3	177
5	Understanding the Relationship Between Brain Gene Expression and Social Behavior: Lessons from the Honey Bee. <i>Annual Review of Genetics</i> , 2012, 46, 591-615.	3.2	166
6	Bee genetics and conservation. <i>Apidologie</i> , 2009, 40, 237-262.	0.9	161
7	Management increases genetic diversity of honey bees via admixture. <i>Molecular Ecology</i> , 2012, 21, 4414-4421.	2.0	128
8	Successful Biological Invasion despite a Severe Genetic Load. <i>PLoS ONE</i> , 2007, 2, e868.	1.1	88
9	A genome-wide signature of positive selection in ancient and recent invasive expansions of the honey bee <i>Apis mellifera</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3421-3426.	3.3	88
10	Recombination is associated with the evolution of genome structure and worker behavior in honey bees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18012-18017.	3.3	82
11	Conservation Genetics of Potentially Endangered Mutualisms: Reduced Levels of Genetic Variation in Specialist versus Generalist Bees. <i>Conservation Biology</i> , 2005, 19, 195-202.	2.4	69
12	Effective population size in Hymenoptera with complementary sex determination. <i>Heredity</i> , 2004, 93, 627-630.	1.2	68
13	Use of diploid male frequency data as an indicator of pollinator decline. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S9-12.	1.2	67
14	Increased genetic differentiation in a specialist versus a generalist bee: implications for conservation. <i>Conservation Genetics</i> , 2006, 6, 1017-1026.	0.8	66
15	Ancient Duplications Have Led to Functional Divergence of Vitellogenin-Like Genes Potentially Involved in Inflammation and Oxidative Stress in Honey Bees. <i>Genome Biology and Evolution</i> , 2016, 8, 495-506.	1.1	60
16	A review of the consequences of complementary sex determination and diploid male production on mating failures in the Hymenoptera. <i>Entomologia Experimentalis Et Applicata</i> , 2013, 146, 156-164.	0.7	59
17	Accelerated Evolution of Innate Immunity Proteins in Social Insects: Adaptive Evolution or Relaxed Constraint?. <i>Molecular Biology and Evolution</i> , 2013, 30, 1665-1674.	3.5	59
18	Adaptive evolution of a key gene affecting queen and worker traits in the honey bee, <i>Apis mellifera</i> . <i>Molecular Ecology</i> , 2011, 20, 5226-5235.	2.0	50

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19	Bee conservation in the age of genomics. <i>Conservation Genetics</i> , 2017, 18, 713-729.	0.8	50
20	High levels of diploid male production in a primitively eusocial bee (Hymenoptera: Halictidae). <i>Heredity</i> , 2001, 87, 631-636.	1.2	47
21	A <i>scn</i> SNP test to identify Africanized honeybees via proportion of "African" ancestry. <i>Molecular Ecology Resources</i> , 2015, 15, 1346-1355.	2.2	39
22	Developmental plasticity shapes social traits and selection in a facultatively eusocial bee. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13615-13625.	3.3	37
23	The transcriptomic and evolutionary signature of social interactions regulating honey bee caste development. <i>Ecology and Evolution</i> , 2015, 5, 4795-4807.	0.8	36
24	Integrative Genomics Reveals the Genetics and Evolution of the Honey Bee's Social Immune System. <i>Genome Biology and Evolution</i> , 2019, 11, 937-948.	1.1	33
25	Thrice out of Asia and the adaptive radiation of the western honey bee. <i>Science Advances</i> , 2021, 7, eabj2151.	4.7	33
26	Improving bee health through genomics. <i>Nature Reviews Genetics</i> , 2020, 21, 277-291.	7.7	32
27	Assessing patterns of admixture and ancestry in Canadian honey bees. <i>Insectes Sociaux</i> , 2015, 62, 479-489.	0.7	31
28	Conservation Genomics of the Declining North American Bumblebee <i>Bombus terricola</i> Reveals Inbreeding and Selection on Immune Genes. <i>Frontiers in Genetics</i> , 2018, 9, 316.	1.1	31
29	Pleiotropy constrains the evolution of protein but not regulatory sequences in a transcription regulatory network influencing complex social behaviors. <i>Frontiers in Genetics</i> , 2014, 5, 431.	1.1	30
30	The population genetics of a solitary oligolectic sweat bee, <i>Lasioglossum</i> (<i>Sphecodogastra</i>) <i>oenotherae</i> (Hymenoptera: Halictidae). <i>Heredity</i> , 2007, 99, 397-405.	1.2	29
31	Genomic footprint of evolution of eusociality in bees: floral food use and CYPome "blooms". <i>Insectes Sociaux</i> , 2018, 65, 445-454.	0.7	29
32	Common and novel transcriptional routes to behavioral maturation in worker and male honey bees. <i>Genes, Brain and Behavior</i> , 2012, 11, 253-261.	1.1	28
33	Admixture increases diversity in managed honey bees: Reply to De la Rúa <i>et al.</i> (2013). <i>Molecular Ecology</i> , 2013, 22, 3211-3215.	2.0	28
34	No Genetic Tradeoffs between Hygienic Behaviour and Individual Innate Immunity in the Honey Bee, <i>Apis mellifera</i> . <i>PLoS ONE</i> , 2014, 9, e104214.	1.1	28
35	Queens and Workers Contribute Differently to Adaptive Evolution in Bumble Bees and Honey Bees. <i>Genome Biology and Evolution</i> , 2017, 9, 2395-2402.	1.1	25
36	Evolution of recombination and genome structure in eusocial insects. <i>Communicative and Integrative Biology</i> , 2013, 6, e22919.	0.6	24

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37	A Single Gene Causes Thelytokous Parthenogenesis, the Defining Feature of the Cape Honeybee <i>Apis mellifera capensis</i> . <i>Current Biology</i> , 2020, 30, 2248-2259.e6.	1.8	23
38	Toward an Upgraded Honey Bee (<i>Apis mellifera</i> L.) Genome Annotation Using Proteogenomics. <i>Journal of Proteome Research</i> , 2016, 15, 411-421.	1.8	22
39	Hybrid origins of Australian honeybees (<i>Apis mellifera</i>). <i>Apidologie</i> , 2016, 47, 26-34.	0.9	21
40	Insects with similar social complexity show convergent patterns of adaptive molecular evolution. <i>Scientific Reports</i> , 2018, 8, 10388.	1.6	20
41	Recent advances in population and quantitative genomics of honey bees. <i>Current Opinion in Insect Science</i> , 2019, 31, 93-98.	2.2	20
42	Conservation genomics reveals pesticide and pathogen exposure in the declining bumble bee <i>Bombus terrestris</i> . <i>Molecular Ecology</i> , 2021, 30, 4220-4230.	2.0	20
43	Strikingly high levels of heterozygosity despite 20 years of inbreeding in a clonal honey bee. <i>Journal of Evolutionary Biology</i> , 2019, 32, 144-152.	0.8	19
44	Draft Genome Assembly and Population Genetics of an Agricultural Pollinator, the Solitary Alkali Bee (<i>Halictidae: Nomia melanderi</i>). <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 625-634.	0.8	19
45	Paternally-biased gene expression follows kin-selected predictions in female honey bee embryos. <i>Molecular Ecology</i> , 2020, 29, 1523-1533.	2.0	16
46	Beyond fruit-flies: population genomic advances in non-Drosophila arthropods. <i>Briefings in Functional Genomics</i> , 2015, 14, 424-431.	1.3	14
47	Honey Bee Queen Production: Canadian Costing Case Study and Profitability Analysis. <i>Journal of Economic Entomology</i> , 2020, 113, 1618-1627.	0.8	14
48	A variant reference data set for the Africanized honeybee, <i>Apis mellifera</i> . <i>Scientific Data</i> , 2016, 3, 160097.	2.4	13
49	Defense Response in Brazilian Honey Bees (<i>Apis mellifera scutellata</i> – spp.) Is Underpinned by Complex Patterns of Admixture. <i>Genome Biology and Evolution</i> , 2020, 12, 1367-1377.	1.1	13
50	Characterization of Genomic Variants Associated with Scout and Recruit Behavioral Castes in Honey Bees Using Whole-Genome Sequencing. <i>PLoS ONE</i> , 2016, 11, e0146430.	1.1	11
51	An abbreviated SNP panel for ancestry assignment of honeybees (<i>Apis mellifera</i>). <i>Apidologie</i> , 2017, 48, 776-783.	0.9	10
52	Genetic differentiation across a behavioural boundary in a primitively eusocial bee, <i>Halictus poeyi</i> Lepeletier (Hymenoptera, Halictidae). <i>Insectes Sociaux</i> , 2002, 49, 282-288.	0.7	8
53	Population Genomic and Phylogenomic Insights into the Evolution of Physiology and Behaviour in Social Insects. <i>Advances in Insect Physiology</i> , 2015, 48, 293-324.	1.1	8
54	Effects of group size on learning and memory in the honey bee, <i>Apis mellifera</i> . <i>Journal of Experimental Biology</i> , 2019, 222, .	0.8	8

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55	Eusociality influences the strength of negative selection on insect genomes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020, 287, 20201512.	1.2	8
56	A new protocol for measuring spatial learning and memory in the honey bee <i>Apis mellifera</i> : effects of behavioural state and cGMP. <i>Insectes Sociaux</i> , 2019, 66, 65-71.	0.7	7
57	The honey bee genome-- what has it been good for?. <i>Apidologie</i> , 2021, 52, 45-62.	0.9	7
58	Bees in the six: Determinants of bumblebee habitat quality in urban landscapes. <i>Ecology and Evolution</i> , 2022, 12, e8667.	0.8	7
59	Searching beyond the streetlight: Neonicotinoid exposure alters the neurogenomic state of worker honey bees. <i>Ecology and Evolution</i> , 2021, 11, 18733-18742.	0.8	6
60	Characterization of microsatellite loci from the solitary sweat bees <i>Lasioglossum leucozonium</i> and <i>Lasioglossum oenotherae</i> (Hymenoptera, Halictidae). <i>Molecular Ecology Notes</i> , 2006, 6, 1154-1156.	1.7	5
61	Insect invasions and natural selection. <i>Nature</i> , 2016, 539, 500-502.	13.7	5
62	Genetic origins of honey bees (<i>Apis mellifera</i>) on Kangaroo Island and Norfolk Island (Australia) and the Kingdom of Tonga. <i>Apidologie</i> , 2019, 50, 28-39.	0.9	5
63	Phenomic analysis of the honey bee pathogen-web and its dynamics on colony productivity, health and social immunity behaviors. <i>PLoS ONE</i> , 2022, 17, e0263273.	1.1	5
64	Studying the Genetics of Behavior in the Genomics Era. , 2019, , 223-233.		3
65	Adaptive, caste-specific changes to recombination rates in a thelytokous honeybee population. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210729.	1.2	3
66	Impacts of COVID-19 on Canadian Beekeeping: Survey Results and a Profitability Analysis. <i>Journal of Economic Entomology</i> , 2021, 114, 2245-2254.	0.8	3
67	Reply to Hunt et al.: Worker-biased genes have high guanine-cytosine content and rates of nucleotide diversity in the honey bee. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E447-E447.	3.3	0
68	Practical Applications of Genomics in Managing Honey bee Health. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2021, 37, 535-543.	0.5	0
69	Honey Bee: Management. , 2018, , 1-3.		0
70	Honey Bee: Management. , 2020, , 5281-5283.		0