

Guy Bloch

List of Publications by Year in descending order

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92
papers

6,018
citations

76326

40
h-index

79698

73
g-index

101
all docs

101
docs citations

101
times ranked

5001
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into social insects from the genome of the honeybee <i>Apis mellifera</i> . <i>Nature</i> , 2006, 443, 931-949.	27.8	1,648
2	The genomes of two key bumblebee species with primitive eusocial organization. <i>Genome Biology</i> , 2015, 16, 76.	8.8	330
3	Molecular and phylogenetic analyses reveal mammalian-like clockwork in the honey bee (<i>Apis</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2006, 16, 1352-1365.	5.5	223
4	Changes in period mRNA levels in the brain and division of labor in honey bee colonies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 6914-6919.	7.1	154
5	Behavioral Rhythmicity, Age, Division of Labor and period Expression in the Honey Bee Brain. <i>Journal of Biological Rhythms</i> , 2001, 16, 444-456.	2.6	136
6	Juvenile hormone titers, juvenile hormone biosynthesis, ovarian development and social environment in <i>Bombus terrestris</i> . <i>Journal of Insect Physiology</i> , 2000, 46, 47-57.	2.0	133
7	Two sides of a coin: ecological and chronobiological perspectives of timing in the wild. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160246.	4.0	124
8	Developmentally determined attenuation in circadian rhythms links chronobiology to social organization in bees. <i>Journal of Experimental Biology</i> , 2006, 209, 1044-1051.	1.7	109
9	Reversal of honeybee behavioural rhythms. <i>Nature</i> , 2001, 410, 1048-1048.	27.8	108
10	Regulation of reproduction by dominant workers in bumblebee (<i>Bombus terrestris</i>) queenright colonies. <i>Behavioral Ecology and Sociobiology</i> , 1999, 45, 125-135.	1.4	102
11	The Social Clock of the Honeybee. <i>Journal of Biological Rhythms</i> , 2010, 25, 307-317.	2.6	94
12	Animal activity around the clock with no overt circadian rhythms: patterns, mechanisms and adaptive value. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130019.	2.6	83
13	Brain biogenic amines and reproductive dominance in bumble bees (<i>Bombus terrestris</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2000, 186, 261-268.	1.6	82
14	Effects of social conditions on Juvenile Hormone mediated reproductive development in <i>Bombus terrestris</i> workers. <i>Physiological Entomology</i> , 1996, 21, 257-267.	1.5	79
15	Differences in the sleep architecture of forager and young honeybees (<i>Apis mellifera</i>). <i>Journal of Experimental Biology</i> , 2008, 211, 2408-2416.	1.7	79
16	Patterns of PERIOD and pigment-dispersing hormone immunoreactivity in the brain of the European honeybee (<i>Apis mellifera</i>): Age- and time-related plasticity. <i>Journal of Comparative Neurology</i> , 2003, 464, 269-284.	1.6	78
17	Circadian rhythms and endocrine functions in adult insects. <i>Journal of Insect Physiology</i> , 2013, 59, 56-69.	2.0	77
18	Regulation of queen-worker conflict in bumble bee (<i>Bombus terrestris</i>) colonies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 1999, 266, 2465-2469.	2.6	74

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19	Juvenile hormone levels in honey bee (<i>Apis mellifera</i> L.) foragers: foraging experience and diurnal variation. <i>Journal of Insect Physiology</i> , 2001, 47, 1119-1125.	2.0	72
20	Body size variation in bees: regulation, mechanisms, and relationship to social organization. <i>Current Opinion in Insect Science</i> , 2019, 35, 77-87.	4.4	71
21	Reproductive division of labor, dominance, and ecdysteroid levels in hemolymph and ovary of the bumble bee <i>Bombus terrestris</i> . <i>Journal of Insect Physiology</i> , 2005, 51, 811-823.	2.0	70
22	Ecdysteroid titer, ovary status, and dominance in adult worker and queen bumble bees (<i>Bombus</i>) Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50 6	2.0	69
23	Potent social synchronization can override photic entrainment of circadian rhythms. <i>Nature Communications</i> , 2016, 7, 11662.	12.8	69
24	General anesthesia alters time perception by phase shifting the circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7061-7066.	7.1	68
25	Animal clocks: when science meets nature. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131354.	2.6	68
26	Natural plasticity in circadian rhythms is mediated by reorganization in the molecular clockwork in honeybees. <i>FASEB Journal</i> , 2007, 21, 2304-2311.	0.5	67
27	Time is honey: circadian clocks of bees and flowers and how their interactions may influence ecological communities. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160256.	4.0	66
28	Gonadotropic and Physiological Functions of Juvenile Hormone in Bumblebee (<i>Bombus terrestris</i>) Workers. <i>PLoS ONE</i> , 2014, 9, e100650.	2.5	66
29	Social molecular pathways and the evolution of bee societies. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 2155-2170.	4.0	64
30	Industrial apiculture in the Jordan valley during Biblical times with Anatolian honeybees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11240-11244.	7.1	61
31	RNA editing is abundant and correlates with task performance in a social bumblebee. <i>Nature Communications</i> , 2019, 10, 1605.	12.8	57
32	Molecular Dynamics and Social Regulation of Context-Dependent Plasticity in the Circadian Clockwork of the Honey Bee. <i>Journal of Neuroscience</i> , 2010, 30, 12517-12525.	3.6	56
33	Socially synchronized circadian oscillators. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130035.	2.6	56
34	Pigment-Dispersing Factor-expressing neurons convey circadian information in the honey bee brain. <i>Open Biology</i> , 2018, 8, 170224.	3.6	55
35	The transcription factor KrÄ¼ppel homolog 1 is linked to hormone mediated social organization in bees. <i>BMC Evolutionary Biology</i> , 2010, 10, 120.	3.2	52
36	The Molecular Clockwork of the Fire Ant <i>Solenopsis invicta</i> . <i>PLoS ONE</i> , 2012, 7, e45715.	2.5	51

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37	Reevaluation of the Role of Mandibular Glands in Regulation of Reproduction in Bumblebee Colonies. <i>Journal of Chemical Ecology</i> , 1999, 25, 881-896.	1.8	49
38	Microarray Analysis of Natural Socially Regulated Plasticity in Circadian Rhythms of Honey Bees. <i>Journal of Biological Rhythms</i> , 2012, 27, 12-24.	2.6	49
39	Endocrine Influences on the Organization of Insect Societies. , 2002, , 195-235.		46
40	Neuronal circadian clock protein oscillations are similar in behaviourally rhythmic forager honeybees and in arrhythmic nurses. <i>Open Biology</i> , 2017, 7, 170047.	3.6	45
41	The effect of queen-worker conflict on caste determination in the bumblebee <i>Bombus terrestris</i> . <i>Behavioral Ecology and Sociobiology</i> , 2000, 47, 346-352.	1.4	44
42	Social influences on body size and developmental time in the bumblebee <i>Bombus terrestris</i> . <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 1601-1612.	1.4	43
43	Social Influences on Circadian Rhythms and Sleep in Insects. <i>Advances in Genetics</i> , 2012, 77, 1-32.	1.8	42
44	Juvenile hormone and circadian locomotor activity in the honey bee <i>Apis mellifera</i> . <i>Journal of Insect Physiology</i> , 2002, 48, 1123-1131.	2.0	41
45	Genes encoding putative Takeout/juvenile hormone binding proteins in the honeybee (<i>Apis mellifera</i>) and modulation by age and juvenile hormone of the takeout-like gene GB19811. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 689-701.	2.7	41
46	Workers Make the Queens in <i>Melipona</i> Bees: Identification of Geraniol as a Caste Determining Compound from Labial Glands of Nurse Bees. <i>Journal of Chemical Ecology</i> , 2010, 36, 565-569.	1.8	41
47	Molecular heterochrony and the evolution of sociality in bumblebees (<i>Bombus terrestris</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132419.	2.6	39
48	Juvenile hormone and ecdysteroids as major regulators of brain and behavior in bees. <i>Current Opinion in Insect Science</i> , 2015, 12, 26-37.	4.4	37
49	Inferring dynamic topology for decoding spatiotemporal structures in complex heterogeneous networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9300-9305.	7.1	36
50	Body size-related variation in Pigment Dispersing Factor-immunoreactivity in the brain of the bumblebee <i>Bombus terrestris</i> (Hymenoptera, Apidae). <i>Journal of Insect Physiology</i> , 2009, 55, 479-487.	2.0	30
51	Social regulation of maternal traits in nest-founding bumble bee (<i>Bombus terrestris</i>) queens. <i>Journal of Experimental Biology</i> , 2013, 216, 3474-3482.	1.7	29
52	Methidathion Resistance in the Sweetpotato Whitefly (Aleyrodidae: Homoptera) in Israel: Selection, Heritability, and Correlated Changes of Esterase Activity. <i>Journal of Economic Entomology</i> , 1994, 87, 1147-1156.	1.8	28
53	period expression in the honey bee brain is developmentally regulated and not affected by light, flight experience, or colony type. <i>Insect Biochemistry and Molecular Biology</i> , 2004, 34, 879-891.	2.7	28
54	Influences of octopamine and juvenile hormone on locomotor behavior and period gene expression in the honeybee, <i>Apis mellifera</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2007, 193, 181-199.	1.6	27

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55	Maternity-related plasticity in circadian rhythms of bumble-bee queens. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3510-3516.	2.6	26
56	The Colony Environment, but Not Direct Contact with Conspecifics, Influences the Development of Circadian Rhythms in Honey Bees. <i>Journal of Biological Rhythms</i> , 2012, 27, 217-225.	2.6	25
57	Endocrine Influences on the Organization of Insect Societies. , 2009, , 1027-1070.		24
58	Bumble Bee Workers Give Up Sleep to Care for Offspring that Are Not Their Own. <i>Current Biology</i> , 2019, 29, 3488-3493.e4.	3.9	24
59	Monitoring Circadian Rhythms of Individual Honey Bees in a Social Environment Reveals Social Influences on Postembryonic Ontogeny of Activity Rhythms. <i>Journal of Biological Rhythms</i> , 2007, 22, 343-355.	2.6	22
60	Circadian Rhythms and Sleep in Honey Bees. , 2012, , 31-45.		22
61	No effect of juvenile hormone on task performance in a bumblebee (<i>Bombus terrestris</i>) supports an evolutionary link between endocrine signaling and social complexity. <i>Hormones and Behavior</i> , 2016, 85, 67-75.	2.1	21
62	Dufour's gland secretion, sterility and foraging behavior: Correlated behavior traits in bumblebee workers. <i>Journal of Insect Physiology</i> , 2013, 59, 1250-1255.	2.0	19
63	Juvenile hormone interacts with multiple factors to modulate aggression and dominance in groups of orphan bumble bee (<i>Bombus terrestris</i>) workers. <i>Hormones and Behavior</i> , 2020, 117, 104602.	2.1	19
64	Juvenile hormone regulates brain-reproduction tradeoff in bumble bees but not in honey bees. <i>Hormones and Behavior</i> , 2020, 126, 104844.	2.1	18
65	The Complexity of Social Complexity: A Quantitative Multidimensional Approach for Studies of Social Organization. <i>American Naturalist</i> , 2020, 196, 525-540.	2.1	17
66	Task-Related Phasing of Circadian Rhythms in Antennal Responsiveness to Odorants and Pheromones in Honeybees. <i>Journal of Biological Rhythms</i> , 2017, 32, 593-608.	2.6	17
67	Social synchronization of circadian rhythms with a focus on honeybees. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200342.	4.0	16
68	Function and evolution of microRNAs in eusocial Hymenoptera. <i>Frontiers in Genetics</i> , 2015, 6, 193.	2.3	15
69	Endocrine Influences on Insect Societies. , 2017, , 421-451.		14
70	Body size but not age influences phototaxis in bumble bee (<i>Bombus terrestris</i> , L.) workers. <i>Apidologie</i> , 2020, 51, 763-776.	2.0	14
71	Body Size and Behavioural Plasticity Interact to Influence the Performance of Free-Foraging Bumble Bee Colonies. <i>Insects</i> , 2021, 12, 236.	2.2	14
72	The colony environment modulates sleep in honey bee workers. <i>Journal of Experimental Biology</i> , 2015, 218, 404-11.	1.7	13

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73	Brain microRNAs among social and solitary bees. <i>Royal Society Open Science</i> , 2020, 7, 200517.	2.4	13
74	The involvement of the antennae in mediating the brood influence on circadian rhythms in "nurse" honey bee (<i>Apis mellifera</i>) workers. <i>Journal of Insect Physiology</i> , 2012, 58, 1096-1103.	2.0	11
75	Colony Volatiles and Substrate-borne Vibrations Entrain Circadian Rhythms and Are Potential Cues Mediating Social Synchronization in Honey Bee Colonies. <i>Journal of Biological Rhythms</i> , 2020, 35, 246-256.	2.6	11
76	An Alien in the Group: Eusocial Male Bees Sharing Nonspecific Reproductive Aggregations. <i>Journal of Insect Science</i> , 2015, 15, 157.	1.5	10
77	Size-related variation in protein abundance in the brain and abdominal tissue of bumble bee workers. <i>Insect Molecular Biology</i> , 2012, 21, 319-325.	2.0	9
78	The Influence of Social Information and Self-expertise on Emergent Task Allocation in Virtual Groups. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	2.2	9
79	Seasonal and task-related variation in free running activity rhythms in honey bees (<i>Apis mellifera</i>). <i>Insectes Sociaux</i> , 2006, 53, 115-118.	1.2	8
80	Juvenile hormone affects the development and strength of circadian rhythms in young bumble bee (<i>Bombus terrestris</i>) workers. <i>Neurobiology of Sleep and Circadian Rhythms</i> , 2020, 9, 100056.	2.8	8
81	Care-giver identity impacts offspring development and performance in an annually social bumble bee. <i>Bmc Ecology and Evolution</i> , 2021, 21, 20.	1.6	8
82	The expression and phylogenetics of the Inhibitor Cysteine Knot peptide OCLP1 in the honey bee <i>Apis mellifera</i> . <i>Journal of Insect Physiology</i> , 2014, 65, 1-8.	2.0	7
83	Nurse honeybee workers tend capped-brood, which does not require feeding, around-the-clock. <i>Journal of Experimental Biology</i> , 2017, 220, 4130-4140.	1.7	7
84	Temporal variation in group aggressiveness of honeybee (<i>Apis mellifera</i>) guards. <i>Apidologie</i> , 2008, 39, 283-291.	2.0	5
85	Raalin, a transcript enriched in the honey bee brain, is a remnant of genomic rearrangement in hymenoptera. <i>Insect Molecular Biology</i> , 2012, 21, 305-318.	2.0	5
86	Circadian plasticity in honey bees. <i>Biochemist</i> , 2020, 42, 22-26.	0.5	5
87	Prosocial and self-interested intra-twin pair behavior in monozygotic and dizygotic twins in the early to middle childhood transition. <i>Developmental Science</i> , 2018, 21, e12665.	2.4	3
88	Krüppel-homologue 1 Mediates Hormonally Regulated Dominance Rank in a Social Bee. <i>Biology</i> , 2021, 10, 1188.	2.8	3
89	Remarkable Sensitivity of Young Honey Bee Workers to Multiple Non-photic, Non-thermal, Forager Cues That Synchronize Their Daily Activity Rhythms. <i>Frontiers in Physiology</i> , 2021, 12, 789773.	2.8	3
90	Esterase activity in populations of the whitefly, <i>Bemisia tabaci</i> (Homoptera: Aleyrodidae): heritability and associated organophosphorus insecticide resistance. <i>Bulletin of Entomological Research</i> , 1995, 85, 11-19.	1.0	1

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91	<i>Photoperiodism: The Biological Calendar</i> . Edited by Randy J. Nelson, David L. Denlinger, and David E. Somers. Oxford and New York: Oxford University Press. \$74.00. xiii + 581 p.; ill.; index. ISBN: 978-0-19-533590-3. 2010.. <i>Quarterly Review of Biology</i> , 2011, 86, 39-40.	0.1	0
92	The Apiary at Tel Reáçov. <i>Near Eastern Archaeology</i> , 2022, 85, 126-131.	0.2	0