Olav Rueppell

List of Publications by Year
in descending order

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109 papers	4,978 citations	117625 34 h-index	102487 66 g-index
117 all docs	117 docs citations	117 times ranked	4206 citing authors

#	Article	IF	Citations
1	Impact of Honey Bee Migratory Management on Pathogen Loads and Immune Gene Expression is Affected by Complex Interactions With Environment, Worker Life History, and Season. Journal of Insect Science, 2022, 22, .	1.5	6
2	Mercury accumulation in honey bees trends upward with urbanization in the USA. Agricultural and Environmental Letters, 2022, 7, .	1.2	2
3	Multiple benefits of breeding honey bees for hygienic behavior. Journal of Invertebrate Pathology, 2022, 193, 107788.	3.2	3
4	Hygiene-Eliciting Brood Semiochemicals as a Tool for Assaying Honey Bee (Hymenoptera: Apidae) Colony Resistance to Varroa (Mesostigmata: Varroidae). Journal of Insect Science, 2021, 21, .	1.5	4
5	Time-accuracy trade-off and task partitioning of hygienic behavior among honey bee (Apis mellifera) workers. Behavioral Ecology and Sociobiology, 2021, 75, 1.	1.4	2
6	Tachykinin signaling inhibits task-specific behavioral responsiveness in honeybee workers. ELife, 2021, 10, .	6.0	10
7	Reproductive activation in honeybee (Apis mellifera) workers protects against abiotic and biotic stress. Philosophical Transactions of the Royal Society B: Biological Sciences, 2021, 376, 20190737.	4.0	18
8	The genomic basis of evolutionary differentiation among honey bees. Genome Research, 2021, 31, 1203-1215.	5.5	17
9	Recombination mapping of the Brazilian stingless bee Frieseomelitta varia confirms high recombination rates in social hymenoptera. BMC Genomics, 2021, 22, 673.	2.8	1
10	High royal jelly production does not impact the gut microbiome of honey bees. Animal Microbiome, 2021, 3, 60.	3.8	2
11	Comparing Survival of Israeli Acute Paralysis Virus Infection among Stocks of U.S. Honey Bees. Insects, 2021, 12, 60.	2.2	7
12	Local variation in recombination rates of the honey bee (Apis mellifera) genome among samples from six disparate populations. Insectes Sociaux, 2020, 67, 127-138.	1.2	4
13	Transcriptomic and Epigenomic Dynamics of Honey Bees in Response to Lethal Viral Infection. Frontiers in Genetics, 2020, 11, 566320.	2.3	16
14	Egg transcriptome profile responds to maternal virus infection in honey bees, Apis mellifera. Infection, Genetics and Evolution, 2020, 85, 104558.	2.3	15
15	The Neuroproteomic Basis of Enhanced Perception and Processing of Brood Signals That Trigger Increased Reproductive Investment in Honeybee (Apis mellifera) Workers. Molecular and Cellular Proteomics, 2020, 19, 1632-1648.	3.8	10
16	Cuticular pheromones stimulate hygienic behavior in the honey bee (Apis mellifera). Scientific Reports, 2020, 10, 7132.	3.3	20
17	Using Manual and Computer-Based Text-Mining to Uncover Research Trends for Apis mellifera. Veterinary Sciences, 2020, 7, 61.	1.7	3
18	Honey Bee Queens and Virus Infections. Viruses, 2020, 12, 322.	3.3	17

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19	Eggâ€size plasticity in Apis mellifera: Honey bee queens alter egg size in response to both genetic and environmental factors. Journal of Evolutionary Biology, 2020, 33, 534-543.	1.7	17
20	Aging and Behavior in Honey Bees. , 2019, , 709-715.		0
21	Behavioural, physiological and molecular changes in alloparental caregivers may be responsible for selection response for female reproductive investment in honey bees. Molecular Ecology, 2019, 28, 4212-4227.	3.9	16
22	Stock-specific chemical brood signals are induced by Varroa and Deformed Wing Virus, and elicit hygienic response in the honey bee. Scientific Reports, 2019, 9, 8753.	3.3	36
23	Israeli Acute Paralysis Virus: Honey Bee Queenâ€"Worker Interaction and Potential Virus Transmission Pathways. Insects, 2019, 10, 9.	2.2	23
24	Foraging and homing behavior of honey bees (Apis mellifera) during a total solar eclipse. Die Naturwissenschaften, 2019, 106, 4.	1.6	5
25	Simple Comparative Analyses of Differentially Expressed Gene Lists May Overestimate Gene Overlap. Journal of Computational Biology, 2018, 25, 606-612.	1.6	27
26	Testing the effect of paraquat exposure on genomic recombination rates in queens of the western honey bee, Apis mellifera. Genetica, 2018, 146, 171-178.	1.1	5
27	Brood Affects Hygienic Behavior in the Honey Bee (Hymenoptera: Apidae). Journal of Economic Entomology, 2018, 111, 2520-2530.	1.8	26
28	Honeybee Workers as Models of Aging. , 2018, , 533-547.		6
29	Quantitative patterns of vertical transmission of deformed wing virus in honey bees. PLoS ONE, 2018, 13, e0195283.	2.5	38
30	Early life stress affects mortality rate more than social behavior, gene expression or oxidative damage in honey bee workers. Experimental Gerontology, 2017, 90, 19-25.	2.8	18
31	Effects of steel foundation wire on elemental content and hygienic removal of honey bee (Apis) Tj ETQq1 1 0.784314 rgBT /Overlock	1.5	2
32	Queen Quality and the Impact of Honey Bee Diseases on Queen Health: Potential for Interactions between Two Major Threats to Colony Health. Insects, 2017, 8, 48.	2.2	99
33	A New Metazoan Recombination Rate Record and Consistently High Recombination Rates in the Honey Bee Genus Apis Accompanied by Frequent Inversions but not Translocations. Genome Biology and Evolution, 2016, 8, evw269.	2.5	13
34	Ties between ageing plasticity and reproductive physiology in honey bees (Apis mellifera) reveal a positive relation between fecundity and longevity as consequence of advanced social evolution. Current Opinion in Insect Science, 2016, 16, 64-68.	4.4	30
35	Migratory management and environmental conditions affect lifespan and oxidative stress in honey bees. Scientific Reports, 2016, 6, 32023.	3.3	114
36	Honey bee (Apis mellifera) drones survive oxidative stress due to increased tolerance instead of avoidance or repair of oxidative damage. Experimental Gerontology, 2016, 83, 15-21.	2.8	37

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37	Intrinsic survival advantage of social insect queens depends onÂreproductive activation. Journal of Evolutionary Biology, 2015, 28, 2349-2354.	1.7	24
38	The evolution of cooperation is affected by the persistence of fitness effects, the neighborhood size and their interaction. Letters in Biomathematics, 2015, 2, 67-78.	0.1	1
39	A structured population model suggests that long life and post-reproductive lifespan promote the evolution of cooperation. Journal of Theoretical Biology, 2015, 369, 85-94.	1.7	12
40	Geographic variation in polyandry of the Eastern Honey Bee, Apis cerana, in Thailand. Insectes Sociaux, 2015, 62, 37-42.	1.2	5
41	The genomes of two key bumblebee species with primitive eusocial organization. Genome Biology, 2015, 16, 76.	8.8	330
42	Genomic correlates of recombination rate and its variability across eight recombination maps in the western honey bee (Apis mellifera L.). BMC Genomics, 2015, 16, 107.	2.8	20
43	Genetic Architecture of a Hormonal Response to Gene Knockdown in Honey Bees. Journal of Heredity, 2015, 106, 155-165.	2.4	18
44	A Comparison of Multiple Genome-Wide Recombination Maps in Apis mellifera. Springer Proceedings in Mathematics and Statistics, 2015, , 91-98.	0.2	3
45	Response of the honey bee (Apis mellifera) proteome to Israeli acute paralysis virus (IAPV) infection. Canadian Journal of Zoology, 2015, 93, 711-720.	1.0	9
46	Transcriptomic Signatures Mirror the Lack of the Fecundity/Longevity Trade-Off in Ant Queens. Molecular Biology and Evolution, 2015, 32, msv186.	8.9	43
47	Xenobiotic Effects on Intestinal Stem Cell Proliferation in Adult Honey Bee (Apis mellifera L) Workers. PLoS ONE, 2014, 9, e91180.	2.5	22
48	Finding the missing honey bee genes: lessons learned from a genome upgrade. BMC Genomics, 2014, 15, 86.	2.8	375
49	Immunogene and viral transcript dynamics during parasitic Varroa destructor mite infection of developing honey bee (Apis mellifera) pupae. Journal of Experimental Biology, 2014, 217, 1710-1718.	1.7	93
50	The frequency of multiâ€queen colonies increases with altitude in a <scp>N</scp>earctic ant. Ecological Entomology, 2014, 39, 527-529.	2.2	16
51	The architecture of the pollen hoarding syndrome in honey bees: implications for understanding social evolution, behavioral syndromes, and selective breeding. Apidologie, 2014, 45, 364-374.	2.0	13
52	Reproduction, social behavior, and aging trajectories in honeybee workers. Age, 2014, 36, 89-101.	3.0	28
53	Multifaceted responses to two major parasites in the honey bee (Apis mellifera). BMC Ecology, 2013, 13, 26.	3.0	5
54	In Vitro Infection of Pupae with Israeli Acute Paralysis Virus Suggests Disturbance of Transcriptional Homeostasis in Honey Bees (Apis mellifera). PLoS ONE, 2013, 8, e73429.	2.5	88

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55	A Spatially Organized Population Model to Study the Evolution of Cooperation in Species with Discrete Life-History Stages. Springer Proceedings in Mathematics and Statistics, 2013, , 147-154.	0.2	0
56	Ovariole number and ovary activation of Russian honeybee workers (Apis mellifera L.). Journal of Apicultural Research, 2012, 51, 147-149.	1.5	0
57	Genetics of Reproduction and Regulation of Honeybee (Apis melliferaL.) Social Behavior. Annual Review of Genetics, 2012, 46, 97-119.	7.6	84
58	Complex pleiotropy characterizes the pollen hoarding syndrome in honey bees (Apis mellifera L.). Behavioral Ecology and Sociobiology, 2012, 66, 1459-1466.	1.4	16
59	Multiple Mating But Not Recombination Causes Quantitative Increase in Offspring Genetic Diversity for Varying Genetic Architectures. PLoS ONE, 2012, 7, e47220.	2.5	11
60	Pleiotropy of segregating genetic variants that affect honey bee worker life expectancy. Experimental Gerontology, 2012, 47, 631-637.	2.8	2
61	A review on self-destructive defense behaviors in social insects. Insectes Sociaux, 2012, 59, 1-10.	1.2	113
62	A simple and distinctive microbiota associated with honey bees and bumble bees. Molecular Ecology, 2011, 20, 619-628.	3.9	462
63	Genetic architecture of ovary size and asymmetry in European honeybee workers. Heredity, 2011, 106, 894-903.	2.6	27
64	Inclusive fitness theory and eusociality. Nature, 2011, 471, E1-E4.	27.8	339
65	Cross-species correlation between queen mating numbers and worker ovary sizes suggests kin conflict may influence ovary size evolution in honeybees. Die Naturwissenschaften, 2011, 98, 795-799.	1.6	6
66	Population structure of Apis cerana in Thailand reflects biogeography and current gene flow rather than Varroa mite association. Insectes Sociaux, 2011, 58, 445-452.	1.2	25
67	Food manipulation in honeybees induces physiological responses at the individual and colony level. Apidologie, 2011, 42, 508-518.	2.0	14
68	A Game Theoretical Analysis of the Mating Sign Behavior in the Honey Bee. Bulletin of Mathematical Biology, 2011, 73, 626-638.	1.9	2
69	Support for the reproductive ground plan hypothesis of social evolution and major QTL for ovary traits of Africanized worker honey bees (Apis melliferaL.). BMC Evolutionary Biology, 2011, 11, 95.	3.2	45
70	Altruistic selfâ€removal of healthâ€compromised honey bee workers from their hive. Journal of Evolutionary Biology, 2010, 23, 1538-1546.	1.7	128
71	Comparative Linkage Mapping Suggests a High Recombination Rate in All Honeybees. Journal of Heredity, 2010, 101, S118-S126.	2.4	38
72	Differences in Ultrasonic Vocalizations between Wild and Laboratory California Mice (Peromyscus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	66

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73	PDK1 and HR46 Gene Homologs Tie Social Behavior to Ovary Signals. PLoS ONE, 2009, 4, e4899.	2.5	56
74	Rapid Evolution of Immune Proteins in Social Insects. Molecular Biology and Evolution, 2009, 26, 1791-1801.	8.9	69
75	The Genetic Basis of Transgressive Ovary Size in Honeybee Workers. Genetics, 2009, 183, 693-707.	2.9	67
76	The nurseâ€™s load: Early-life exposure to brood-rearing affects behavior and lifespan in honey bees (Apis) Tj ETQq0 0 0 rgBT /Overlock	2.8	70
77	Honey bee (Apis mellifera) workers live longer in small than in large colonies. Experimental Gerontology, 2009, 44, 447-452.	2.8	58
78	Characterization of Quantitative Trait Loci for the Age of First Foraging in Honey Bee Workers. Behavior Genetics, 2009, 39, 541-553.	2.1	27
79	Division of labour and social insect colony performance in relation to task and mating number under two alternative response threshold models. Insectes Sociaux, 2009, 56, 319-331.	1.2	33
80	Added Weights Lead to Reduced Flight Behavior and Mating Success in Polyandrous Honey Bee Queens (Apis mellifera). Ethology, 2009, 115, 698-706.	1.1	18
81	Revisiting the variance-based selection model of diploid drone production for multiple mating in honey bees. Journal of Interdisciplinary Mathematics, 2009, 12, 141-160.	0.7	0
82	Association between Larger Ovaries and Pollen Foraging in Queenless Apis cerana Workers Supports the Reproductive Ground-plan Hypothesis of Social Evolution. Journal of Insect Behavior, 2008, 21, 317-321.	0.7	25
83	Aging and demographic plasticity in response to experimental age structures in honeybees (Apis) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	34
84	Age, caste, and behavior determine the replicative activity of intestinal stem cells in honeybees (Apis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.8	25
85	Variance-based selection may explain general mating patterns in social insects. Biology Letters, 2008, 4, 270-273.	2.3	25
86	Aging without functional senescence in honey bee workers. Current Biology, 2007, 17, R274-R275.	3.9	67
87	Regulation of life history determines lifespan of worker honey bees (Apis mellifera L.). Experimental Gerontology, 2007, 42, 1020-1032.	2.8	152
88	Behavioral genomics of honeybee foraging and nest defense. Die Naturwissenschaften, 2007, 94, 247-267.	1.6	188
89	Models of Aging in Honeybee Workers. , 2006, , 267-276.		1
90	High recombination frequency creates genotypic diversity in colonies of the leaf-cutting ant Acromyrmex echinatior. Journal of Evolutionary Biology, 2006, 19, 1475-1485.	1.7	35

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91	Male behavioural maturation rate responds to selection on pollen hoarding in honeybees. Animal Behaviour, 2006, 71, 227-234.	1.9	30
92	Exceptionally high levels of recombination across the honey bee genome. Genome Research, 2006, 16, 1339-1344.	5.5	158
93	The Genetic Architecture of Sucrose Responsiveness in the Honeybee (Apis mellifera L.). Genetics, 2006, 172, 243-251.	2.9	56
94	Biodemographic analysis of male honey bee mortality. Aging Cell, 2005, 4, 13-19.	6.7	44
95	Extraordinary starvation resistance in Temnothorax rugatulus (Hymenoptera, Formicidae) colonies: Demography and adaptive behavior. Insectes Sociaux, 2005, 52, 282-290.	1.2	48
96	The Genetic Architecture of the Behavioral Ontogeny of Foraging in Honeybee Workers. Genetics, 2004, 167, 1767-1779.	2.9	80
97	Pleiotropy, Epistasis and New QTL: The Genetic Architecture of Honey Bee Foraging Behavior. Journal of Heredity, 2004, 95, 481-491.	2.4	86
98	From Genes to Societies. Science of Aging Knowledge Environment: SAGE KE, 2004, 2004, 5pe-5.	0.8	22
99	Mitochondrial markers in the ant Leptothorax rugatulus reveal the population genetic consequences of female philopatry at different hierarchical levels. Molecular Ecology, 2003, 12, 795-801.	3.9	37
100	Title is missing!. Journal of Insect Behavior, 2002, 15, 447-454.	0.7	8
101	Sex allocation ratios in the facultatively polygynous ant, Leptothorax acervorum. Behavioral Ecology and Sociobiology, 2001, 50, 270-274.	1.4	18
102	Alternative reproductive tactics in the queen-size-dimorphic ant Leptothorax rugatulus (Emery) and their consequences for genetic population structure. Behavioral Ecology and Sociobiology, 2001, 50, 189-197.	1.4	45
103	A new type of exocrine gland and its function in mass recruitment in the ant Cylindromyrmex whymperi (Formicidae, Cerapachyinae). Die Naturwissenschaften, 2001, 88, 395-399.	1.6	12
104	Complex determination of queen body size in the queen size dimorphic ant Leptothorax rugatulus (Formicidae: Hymenoptera). Heredity, 2001, 87, 33-40.	2.6	33
105	Genetic and social structure of the queen size dimorphic antLeptothoraxcf.andrei. Ecological Entomology, 2001, 26, 76-82.	2.2	9
106	Alternative reproductive tactics in females: the case of size polymorphism in winged ant queens. Insectes Sociaux, 1999, 46, 6-17.	1.2	90
107	A Female Caste Specialized for the Production of Unfertilized Eggs in the Ant Crematogaster smithi. Die Naturwissenschaften, 1999, 86, 93-95.	1.6	34
108	Size-dimorphism in the queens of the North American ant Leptothorax rugatulus (Emery). Insectes Sociaux, 1998, 45, 67-77.	1.2	54

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109	First Records of Leptothorax rugatulus (Hymenoptera: Formicidae) with cysticercoids of Tapeworms (Cestoda: Dilepididae) from the SouthWestern United States. Florida Entomologist, 1998, 81, 122.	0.5	6