

Olav Rueppell

List of Publications by Year in descending order

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109
papers

4,978
citations

117571

34
h-index

102432

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. <i>Journal of Insect Science</i> , 2022, 22, . | 0.6 | 6 |
| 2 | Mercury accumulation in honey bees trends upward with urbanization in the USA. <i>Agricultural and Environmental Letters</i> , 2022, 7, . | 0.8 | 2 |
| 3 | Multiple benefits of breeding honey bees for hygienic behavior. <i>Journal of Invertebrate Pathology</i> , 2022, 193, 107788. | 1.5 | 3 |
| 4 | Hygiene-Eliciting Brood Semiochemicals as a Tool for Assaying Honey Bee (Hymenoptera: Apidae) Colony Resistance to <i>Varroa</i> (Mesostigmata: Varroidae). <i>Journal of Insect Science</i> , 2021, 21, . | 0.6 | 4 |
| 5 | Time-accuracy trade-off and task partitioning of hygienic behavior among honey bee (<i>Apis mellifera</i>) workers. <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 1. | 0.6 | 2 |
| 6 | Tachykinin signaling inhibits task-specific behavioral responsiveness in honeybee workers. <i>ELife</i> , 2021, 10, . | 2.8 | 10 |
| 7 | Reproductive activation in honeybee (<i>Apis mellifera</i>) workers protects against abiotic and biotic stress. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190737. | 1.8 | 18 |
| 8 | The genomic basis of evolutionary differentiation among honey bees. <i>Genome Research</i> , 2021, 31, 1203-1215. | 2.4 | 17 |
| 9 | Recombination mapping of the Brazilian stingless bee <i>Frieseomelitta varia</i> confirms high recombination rates in social hymenoptera. <i>BMC Genomics</i> , 2021, 22, 673. | 1.2 | 1 |
| 10 | High royal jelly production does not impact the gut microbiome of honey bees. <i>Animal Microbiome</i> , 2021, 3, 60. | 1.5 | 2 |
| 11 | Comparing Survival of Israeli Acute Paralysis Virus Infection among Stocks of U.S. Honey Bees. <i>Insects</i> , 2021, 12, 60. | 1.0 | 7 |
| 12 | Local variation in recombination rates of the honey bee (<i>Apis mellifera</i>) genome among samples from six disparate populations. <i>Insectes Sociaux</i> , 2020, 67, 127-138. | 0.7 | 4 |
| 13 | Transcriptomic and Epigenomic Dynamics of Honey Bees in Response to Lethal Viral Infection. <i>Frontiers in Genetics</i> , 2020, 11, 566320. | 1.1 | 16 |
| 14 | Egg transcriptome profile responds to maternal virus infection in honey bees, <i>Apis mellifera</i> . <i>Infection, Genetics and Evolution</i> , 2020, 85, 104558. | 1.0 | 15 |
| 15 | The Neuroproteomic Basis of Enhanced Perception and Processing of Brood Signals That Trigger Increased Reproductive Investment in Honeybee (<i>Apis mellifera</i>) Workers. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 1632-1648. | 2.5 | 10 |
| 16 | Cuticular pheromones stimulate hygienic behavior in the honey bee (<i>Apis mellifera</i>). <i>Scientific Reports</i> , 2020, 10, 7132. | 1.6 | 20 |
| 17 | Using Manual and Computer-Based Text-Mining to Uncover Research Trends for <i>Apis mellifera</i> . <i>Veterinary Sciences</i> , 2020, 7, 61. | 0.6 | 3 |
| 18 | Honey Bee Queens and Virus Infections. <i>Viruses</i> , 2020, 12, 322. | 1.5 | 17 |

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|----|--|-----|-----------|
| 19 | Egg size plasticity in <i>Apis mellifera</i> : Honey bee queens alter egg size in response to both genetic and environmental factors. <i>Journal of Evolutionary Biology</i> , 2020, 33, 534-543. | 0.8 | 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. <i>Molecular Ecology</i> , 2019, 28, 4212-4227. | 2.0 | 16 |
| 22 | Stock-specific chemical brood signals are induced by Varroa and Deformed Wing Virus, and elicit hygienic response in the honey bee. <i>Scientific Reports</i> , 2019, 9, 8753. | 1.6 | 36 |
| 23 | Israeli Acute Paralysis Virus: Honey Bee Queen-Worker Interaction and Potential Virus Transmission Pathways. <i>Insects</i> , 2019, 10, 9. | 1.0 | 23 |
| 24 | Foraging and homing behavior of honey bees (<i>Apis mellifera</i>) during a total solar eclipse. <i>Die Naturwissenschaften</i> , 2019, 106, 4. | 0.6 | 5 |
| 25 | Simple Comparative Analyses of Differentially Expressed Gene Lists May Overestimate Gene Overlap. <i>Journal of Computational Biology</i> , 2018, 25, 606-612. | 0.8 | 27 |
| 26 | Testing the effect of paraquat exposure on genomic recombination rates in queens of the western honey bee, <i>Apis mellifera</i> . <i>Genetica</i> , 2018, 146, 171-178. | 0.5 | 5 |
| 27 | Brood Affects Hygienic Behavior in the Honey Bee (Hymenoptera: Apidae). <i>Journal of Economic Entomology</i> , 2018, 111, 2520-2530. | 0.8 | 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. <i>PLoS ONE</i> , 2018, 13, e0195283. | 1.1 | 38 |
| 30 | Early life stress affects mortality rate more than social behavior, gene expression or oxidative damage in honey bee workers. <i>Experimental Gerontology</i> , 2017, 90, 19-25. | 1.2 | 18 |
| 31 | Effects of steel foundation wire on elemental content and hygienic removal of honey bee (<i>Apis</i>) Tj ETQq1 1 0.784314rgBT /Overlock 0,7 2 | | |
| 32 | Queen Quality and the Impact of Honey Bee Diseases on Queen Health: Potential for Interactions between Two Major Threats to Colony Health. <i>Insects</i> , 2017, 8, 48. | 1.0 | 99 |
| 33 | A New Metazoan Recombination Rate Record and Consistently High Recombination Rates in the Honey Bee Genus <i>Apis</i> Accompanied by Frequent Inversions but not Translocations. <i>Genome Biology and Evolution</i> , 2016, 8, eww269. | 1.1 | 13 |
| 34 | Ties between ageing plasticity and reproductive physiology in honey bees (<i>Apis mellifera</i>) reveal a positive relation between fecundity and longevity as consequence of advanced social evolution. <i>Current Opinion in Insect Science</i> , 2016, 16, 64-68. | 2.2 | 30 |
| 35 | Migratory management and environmental conditions affect lifespan and oxidative stress in honey bees. <i>Scientific Reports</i> , 2016, 6, 32023. | 1.6 | 114 |
| 36 | Honey bee (<i>Apis mellifera</i>) drones survive oxidative stress due to increased tolerance instead of avoidance or repair of oxidative damage. <i>Experimental Gerontology</i> , 2016, 83, 15-21. | 1.2 | 37 |

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|----|---|-----|-----------|
| 37 | Intrinsic survival advantage of social insect queens depends on reproductive activation. <i>Journal of Evolutionary Biology</i> , 2015, 28, 2349-2354. | 0.8 | 24 |
| 38 | The evolution of cooperation is affected by the persistence of fitness effects, the neighborhood size and their interaction. <i>Letters in Biomathematics</i> , 2015, 2, 67-78. | 0.3 | 1 |
| 39 | A structured population model suggests that long life and post-reproductive lifespan promote the evolution of cooperation. <i>Journal of Theoretical Biology</i> , 2015, 369, 85-94. | 0.8 | 12 |
| 40 | Geographic variation in polyandry of the Eastern Honey Bee, <i>Apis cerana</i> , in Thailand. <i>Insectes Sociaux</i> , 2015, 62, 37-42. | 0.7 | 5 |
| 41 | The genomes of two key bumblebee species with primitive eusocial organization. <i>Genome Biology</i> , 2015, 16, 76. | 3.8 | 330 |
| 42 | Genomic correlates of recombination rate and its variability across eight recombination maps in the western honey bee (<i>Apis mellifera</i> L.). <i>BMC Genomics</i> , 2015, 16, 107. | 1.2 | 20 |
| 43 | Genetic Architecture of a Hormonal Response to Gene Knockdown in Honey Bees. <i>Journal of Heredity</i> , 2015, 106, 155-165. | 1.0 | 18 |
| 44 | A Comparison of Multiple Genome-Wide Recombination Maps in <i>Apis mellifera</i> . <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 91-98. | 0.1 | 3 |
| 45 | Response of the honey bee (<i>Apis mellifera</i>) proteome to Israeli acute paralysis virus (IAPV) infection. <i>Canadian Journal of Zoology</i> , 2015, 93, 711-720. | 0.4 | 9 |
| 46 | Transcriptomic Signatures Mirror the Lack of the Fecundity/Longevity Trade-Off in Ant Queens. <i>Molecular Biology and Evolution</i> , 2015, 32, msv186. | 3.5 | 43 |
| 47 | Xenobiotic Effects on Intestinal Stem Cell Proliferation in Adult Honey Bee (<i>Apis mellifera</i> L) Workers. <i>PLoS ONE</i> , 2014, 9, e91180. | 1.1 | 22 |
| 48 | Finding the missing honey bee genes: lessons learned from a genome upgrade. <i>BMC Genomics</i> , 2014, 15, 86. | 1.2 | 375 |
| 49 | Immunogene and viral transcript dynamics during parasitic <i>Varroa destructor</i> mite infection of developing honey bee (<i>Apis mellifera</i>) pupae. <i>Journal of Experimental Biology</i> , 2014, 217, 1710-1718. | 0.8 | 93 |
| 50 | The frequency of multi-queen colonies increases with altitude in a circumpolar arctic ant. <i>Ecological Entomology</i> , 2014, 39, 527-529. | 1.1 | 16 |
| 51 | The architecture of the pollen hoarding syndrome in honey bees: implications for understanding social evolution, behavioral syndromes, and selective breeding. <i>Apidologie</i> , 2014, 45, 364-374. | 0.9 | 13 |
| 52 | Reproduction, social behavior, and aging trajectories in honeybee workers. <i>Age</i> , 2014, 36, 89-101. | 3.0 | 28 |
| 53 | Multifaceted responses to two major parasites in the honey bee (<i>Apis mellifera</i>). <i>BMC Ecology</i> , 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 (<i>Apis mellifera</i>). <i>PLoS ONE</i> , 2013, 8, e73429. | 1.1 | 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. | 0.1 | 0 |
| 56 | Ovariole number and ovary activation of Russian honeybee workers (<i>Apis mellifera</i> L.). Journal of Apicultural Research, 2012, 51, 147-149. | 0.7 | 0 |
| 57 | Genetics of Reproduction and Regulation of Honeybee (<i>Apis mellifera</i> L.) Social Behavior. Annual Review of Genetics, 2012, 46, 97-119. | 3.2 | 84 |
| 58 | Complex pleiotropy characterizes the pollen hoarding syndrome in honey bees (<i>Apis mellifera</i> L.). Behavioral Ecology and Sociobiology, 2012, 66, 1459-1466. | 0.6 | 16 |
| 59 | Multiple Mating But Not Recombination Causes Quantitative Increase in Offspring Genetic Diversity for Varying Genetic Architectures. PLoS ONE, 2012, 7, e47220. | 1.1 | 11 |
| 60 | Pleiotropy of segregating genetic variants that affect honey bee worker life expectancy. Experimental Gerontology, 2012, 47, 631-637. | 1.2 | 2 |
| 61 | A review on self-destructive defense behaviors in social insects. Insectes Sociaux, 2012, 59, 1-10. | 0.7 | 113 |
| 62 | A simple and distinctive microbiota associated with honey bees and bumble bees. Molecular Ecology, 2011, 20, 619-628. | 2.0 | 462 |
| 63 | Genetic architecture of ovary size and asymmetry in European honeybee workers. Heredity, 2011, 106, 894-903. | 1.2 | 27 |
| 64 | Inclusive fitness theory and eusociality. Nature, 2011, 471, E1-E4. | 13.7 | 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. | 0.6 | 6 |
| 66 | Population structure of <i>Apis cerana</i> in Thailand reflects biogeography and current gene flow rather than <i>Varroa</i> mite association. Insectes Sociaux, 2011, 58, 445-452. | 0.7 | 25 |
| 67 | Food manipulation in honeybees induces physiological responses at the individual and colony level. Apidologie, 2011, 42, 508-518. | 0.9 | 14 |
| 68 | A Game Theoretical Analysis of the Mating Sign Behavior in the Honey Bee. Bulletin of Mathematical Biology, 2011, 73, 626-638. | 0.9 | 2 |
| 69 | Support for the reproductive ground plan hypothesis of social evolution and major QTL for ovary traits of Africanized worker honey bees (<i>Apis mellifera</i> L.). BMC Evolutionary Biology, 2011, 11, 95. | 3.2 | 45 |
| 70 | Altruistic self-removal of health-compromised honey bee workers from their hive. Journal of Evolutionary Biology, 2010, 23, 1538-1546. | 0.8 | 128 |
| 71 | Comparative Linkage Mapping Suggests a High Recombination Rate in All Honeybees. Journal of Heredity, 2010, 101, S118-S126. | 1.0 | 38 |
| 72 | Differences in Ultrasonic Vocalizations between Wild and Laboratory California Mice (<i>Peromyscus</i>) | 1.1 | 66 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | PDK1 and HR46 Gene Homologs Tie Social Behavior to Ovary Signals. PLoS ONE, 2009, 4, e4899. | 1.1 | 56 |
| 74 | Rapid Evolution of Immune Proteins in Social Insects. Molecular Biology and Evolution, 2009, 26, 1791-1801. | 3.5 | 69 |
| 75 | The Genetic Basis of Transgressive Ovary Size in Honeybee Workers. Genetics, 2009, 183, 693-707. | 1.2 | 67 |
| 76 | The nurse's load: Early-life exposure to brood-rearing affects behavior and lifespan in honey bees (<i>Apis mellifera</i>). <i>Evolution</i> , 2009, 63, 1000-1007. | 1.2 | 70 |
| 77 | Honey bee (<i>Apis mellifera</i>) workers live longer in small than in large colonies. <i>Experimental Gerontology</i> , 2009, 44, 447-452. | 1.2 | 58 |
| 78 | Characterization of Quantitative Trait Loci for the Age of First Foraging in Honey Bee Workers. <i>Behavior Genetics</i> , 2009, 39, 541-553. | 1.4 | 27 |
| 79 | Division of labour and social insect colony performance in relation to task and mating number under two alternative response threshold models. <i>Insectes Sociaux</i> , 2009, 56, 319-331. | 0.7 | 33 |
| 80 | Added Weights Lead to Reduced Flight Behavior and Mating Success in Polyandrous Honey Bee Queens (<i>Apis mellifera</i>). <i>Ethology</i> , 2009, 115, 698-706. | 0.5 | 18 |
| 81 | Revisiting the variance-based selection model of diploid drone production for multiple mating in honey bees. <i>Journal of Interdisciplinary Mathematics</i> , 2009, 12, 141-160. | 0.4 | 0 |
| 82 | Association between Larger Ovaries and Pollen Foraging in Queenless <i>Apis cerana</i> Workers Supports the Reproductive Ground-plan Hypothesis of Social Evolution. <i>Journal of Insect Behavior</i> , 2008, 21, 317-321. | 0.4 | 25 |
| 83 | Aging and demographic plasticity in response to experimental age structures in honeybees (<i>Apis mellifera</i>). <i>Evolution</i> , 2009, 63, 1000-1007. | 0.6 | 34 |
| 84 | Age, caste, and behavior determine the replicative activity of intestinal stem cells in honeybees (<i>Apis mellifera</i>). <i>Evolution</i> , 2009, 63, 1000-1007. | 1.2 | 25 |
| 85 | Variance-based selection may explain general mating patterns in social insects. <i>Biology Letters</i> , 2008, 4, 270-273. | 1.0 | 25 |
| 86 | Aging without functional senescence in honey bee workers. <i>Current Biology</i> , 2007, 17, R274-R275. | 1.8 | 67 |
| 87 | Regulation of life history determines lifespan of worker honey bees (<i>Apis mellifera</i> L.). <i>Experimental Gerontology</i> , 2007, 42, 1020-1032. | 1.2 | 152 |
| 88 | Behavioral genomics of honeybee foraging and nest defense. <i>Die Naturwissenschaften</i> , 2007, 94, 247-267. | 0.6 | 188 |
| 89 | Models of Aging in Honeybee Workers. <i>Evolution</i> , 2006, 60, 267-276. | | 1 |
| 90 | High recombination frequency creates genotypic diversity in colonies of the leaf-cutting ant <i>Acromyrmex echinator</i> . <i>Journal of Evolutionary Biology</i> , 2006, 19, 1475-1485. | 0.8 | 35 |

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|-----|--|-----|-----------|
| 91 | Male behavioural maturation rate responds to selection on pollen hoarding in honeybees. <i>Animal Behaviour</i> , 2006, 71, 227-234. | 0.8 | 30 |
| 92 | Exceptionally high levels of recombination across the honey bee genome. <i>Genome Research</i> , 2006, 16, 1339-1344. | 2.4 | 158 |
| 93 | The Genetic Architecture of Sucrose Responsiveness in the Honeybee (<i>Apis mellifera</i> L.). <i>Genetics</i> , 2006, 172, 243-251. | 1.2 | 56 |
| 94 | Biodemographic analysis of male honey bee mortality. <i>Aging Cell</i> , 2005, 4, 13-19. | 3.0 | 44 |
| 95 | Extraordinary starvation resistance in <i>Temnothorax rugatulus</i> (Hymenoptera, Formicidae) colonies: Demography and adaptive behavior. <i>Insectes Sociaux</i> , 2005, 52, 282-290. | 0.7 | 48 |
| 96 | The Genetic Architecture of the Behavioral Ontogeny of Foraging in Honeybee Workers. <i>Genetics</i> , 2004, 167, 1767-1779. | 1.2 | 80 |
| 97 | Pleiotropy, Epistasis and New QTL: The Genetic Architecture of Honey Bee Foraging Behavior. <i>Journal of Heredity</i> , 2004, 95, 481-491. | 1.0 | 86 |
| 98 | From Genes to Societies. <i>Science of Aging Knowledge Environment: SAGE KE</i> , 2004, 2004, 5pe-5. | 0.9 | 22 |
| 99 | Mitochondrial markers in the ant <i>Leptothorax rugatulus</i> reveal the population genetic consequences of female philopatry at different hierarchical levels. <i>Molecular Ecology</i> , 2003, 12, 795-801. | 2.0 | 37 |
| 100 | Title is missing!. <i>Journal of Insect Behavior</i> , 2002, 15, 447-454. | 0.4 | 8 |
| 101 | Sex allocation ratios in the facultatively polygynous ant, <i>Leptothorax acervorum</i> . <i>Behavioral Ecology and Sociobiology</i> , 2001, 50, 270-274. | 0.6 | 18 |
| 102 | Alternative reproductive tactics in the queen-size-dimorphic ant <i>Leptothorax rugatulus</i> (Emery) and their consequences for genetic population structure. <i>Behavioral Ecology and Sociobiology</i> , 2001, 50, 189-197. | 0.6 | 45 |
| 103 | A new type of exocrine gland and its function in mass recruitment in the ant <i>Cylindromyrmex whymeri</i> (Formicidae, Cerapachyinae). <i>Die Naturwissenschaften</i> , 2001, 88, 395-399. | 0.6 | 12 |
| 104 | Complex determination of queen body size in the queen size dimorphic ant <i>Leptothorax rugatulus</i> (Formicidae: Hymenoptera). <i>Heredity</i> , 2001, 87, 33-40. | 1.2 | 33 |
| 105 | Genetic and social structure of the queen size dimorphic ant <i>Leptothorax cf. andrei</i> . <i>Ecological Entomology</i> , 2001, 26, 76-82. | 1.1 | 9 |
| 106 | Alternative reproductive tactics in females: the case of size polymorphism in winged ant queens. <i>Insectes Sociaux</i> , 1999, 46, 6-17. | 0.7 | 90 |
| 107 | A Female Caste Specialized for the Production of Unfertilized Eggs in the Ant <i>Crematogaster smithi</i> . <i>Die Naturwissenschaften</i> , 1999, 86, 93-95. | 0.6 | 34 |
| 108 | Size-dimorphism in the queens of the North American ant <i>Leptothorax rugatulus</i> (Emery). <i>Insectes Sociaux</i> , 1998, 45, 67-77. | 0.7 | 54 |

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|-----|--|-----|-----------|
| 109 | First Records of <i>Leptothorax rugatulus</i> (Hymenoptera: Formicidae) with cysticercoids of Tapeworms (Cestoda: Dilepididae) from the SouthWestern United States. Florida Entomologist, 1998, 81, 122. | 0.2 | 6 |