

# David R Tarpy

## List of Publications by Year in descending order

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Version: 2024-02-01

122  
papers

7,533  
citations

66343

42  
h-index

60623

81  
g-index

136  
all docs

136  
docs citations

136  
times ranked

4415  
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, .	1.5	6
2	Drone honey bees are disproportionately sensitive to abiotic stressors despite expressing high levels of stress response proteins. <i>Communications Biology</i> , 2022, 5, 141.	4.4	10
3	Evaluating the impact of increased pollinator habitat on bee visitation and yield metrics in soybean crops. <i>Agriculture, Ecosystems and Environment</i> , 2022, 331, 107901.	5.3	11
4	Effects of planted pollinator habitat on pathogen prevalence and interspecific detection between bee species. <i>Scientific Reports</i> , 2022, 12, 7806.	3.3	1
5	Colony-level pesticide exposure affects honey bee ( <i>Apis mellifera</i> L.) royal jelly production and nutritional composition. <i>Chemosphere</i> , 2021, 263, 128183.	8.2	37
6	Introduction of <i>Varroa destructor</i> has not altered honey bee queen mating success in the Hawaiian archipelago. <i>Scientific Reports</i> , 2021, 11, 1366.	3.3	3
7	Survey-derived best management practices for backyard beekeepers improve colony health and reduce mortality. <i>PLoS ONE</i> , 2021, 16, e0245490.	2.5	29
8	Colony Collapse Disorder. , 2021, , 223-225.		0
9	OUP accepted manuscript. <i>Journal of Insect Science</i> , 2021, 21, .	1.5	1
10	Trade-offs between sperm viability and immune protein expression in honey bee queens ( <i>Apis mellifera</i> ). <i>Communications Biology</i> , 2021, 4, 48.	4.4	28
11	Honey bee queen health is unaffected by contact exposure to pesticides commonly found in beeswax. <i>Scientific Reports</i> , 2021, 11, 15151.	3.3	10
12	Assessment and Comparison of Two Different Methods to Extract Nucleic Acids From Individual Honey Bees. <i>Annals of the Entomological Society of America</i> , 2021, 114, 614-619.	2.5	0
13	Queen honey bees exhibit variable resilience to temperature stress. <i>PLoS ONE</i> , 2021, 16, e0255381.	2.5	7
14	Effects of developmental exposure to pesticides in wax and pollen on honey bee ( <i>Apis mellifera</i> ) queen reproductive phenotypes. <i>Scientific Reports</i> , 2021, 11, 1020.	3.3	28
15	Influence of brood pheromone on honey bee colony establishment and queen replacement. <i>Journal of Apicultural Research</i> , 2021, 60, 220-228.	1.5	2
16	Transcriptomic and Epigenomic Dynamics of Honey Bees in Response to Lethal Viral Infection. <i>Frontiers in Genetics</i> , 2020, 11, 566320.	2.3	16
17	Differences in larval pesticide tolerance and esterase activity across honey bee ( <i>Apis mellifera</i> ) stocks. <i>Ecotoxicology and Environmental Safety</i> , 2020, 206, 111213.	6.0	16
18	Egg transcriptome profile responds to maternal virus infection in honey bees, <i>Apis mellifera</i> . <i>Infection, Genetics and Evolution</i> , 2020, 85, 104558.	2.3	15

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19	Candidate stress biomarkers for queen failure diagnostics. BMC Genomics, 2020, 21, 571.	2.8	15
20	Honey Bee Queens and Virus Infections. Viruses, 2020, 12, 322.	3.3	17
21	Vulnerability of honey bee queens to heat-induced loss of fertility. Nature Sustainability, 2020, 3, 367-376.	23.7	59
22	The Pathogen Profile of a Honey Bee Queen Does Not Reflect That of Her Workers. Insects, 2020, 11, 382.	2.2	9
23	Egg size plasticity in <i>Apis mellifera</i> : 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
24	Does viral load alter behavior of the bee parasite Varroa destructor?. PLoS ONE, 2019, 14, e0217975.	2.5	11
25	Reproductive Senescence in Drones of the Honey Bee ( <i>Apis mellifera</i> ). Insects, 2019, 10, 11.	2.2	33
26	Effects of larval Age at Grafting and Juvenile Hormone on Morphometry and Reproductive Quality Parameters of in Vitro Reared Honey Bees (Hymenoptera: Apidae). Journal of Economic Entomology, 2019, 112, 2030-2039.	1.8	4
27	Feminizer and doublesex knock-outs cause honey bees to switch sexes. PLoS Biology, 2019, 17, e3000256.	5.6	26
28	Effects of Temperature During Package Transportation on Queen Establishment and Survival in Honey Bees (Hymenoptera: Apidae). Journal of Economic Entomology, 2019, 112, 1043-1049.	1.8	12
29	Is the Brood Pattern within a Honey Bee Colony a Reliable Indicator of Queen Quality?. Insects, 2019, 10, 12.	2.2	32
30	Israeli Acute Paralysis Virus: Honey Bee Queen-Worker Interaction and Potential Virus Transmission Pathways. Insects, 2019, 10, 9.	2.2	23
31	Experimental improvement of honey bee ( <i>Apis mellifera</i> ) queen quality through nutritional and hormonal supplementation. Apidologie, 2019, 50, 14-27.	2.0	16
32	Colony Collapse Disorder. , 2019, , 1-3.		0
33	Honey Bee Queens Do Not Count Mates to Assess their Mating Success. Journal of Insect Behavior, 2018, 31, 200-209.	0.7	18
34	Mitigating effects of pollen during paraquat exposure on gene expression and pathogen prevalence in <i>Apis mellifera</i> L. Ecotoxicology, 2018, 27, 32-44.	2.4	10
35	Medicinal value of sunflower pollen against bee pathogens. Scientific Reports, 2018, 8, 14394.	3.3	86
36	Honey Bee Survival and Pathogen Prevalence: From the Perspective of Landscape and Exposure to Pesticides. Insects, 2018, 9, 65.	2.2	40

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37	Cryptic <i>â€œroyalâ€</i> -subfamilies in honey bee ( <i>Apis mellifera</i> ) colonies. <i>PLoS ONE</i> , 2018, 13, e0199124.	2.5	38
38	Quantitative patterns of vertical transmission of deformed wing virus in honey bees. <i>PLoS ONE</i> , 2018, 13, e0195283.	2.5	38
39	Effects of synthetic acaricides on honey bee grooming behavior against the parasitic <i>Varroa destructor</i> mite. <i>Apidologie</i> , 2017, 48, 483-494.	2.0	22
40	Novel microsatellite loci reveal high genetic diversity yet low population structure for alfalfa leafcutting bees in North America. <i>Conservation Genetics</i> , 2017, 18, 679-687.	1.5	10
41	Automated assay and differential model of western honey bee ( <i>Apis mellifera</i> ) autogrooming using digital image processing. <i>Computers and Electronics in Agriculture</i> , 2017, 135, 338-344.	7.7	7
42	Agricultural Landscape and Pesticide Effects on Honey Bee ( <i>Hymenoptera: Apidae</i> ) Biological Traits. <i>Journal of Economic Entomology</i> , 2017, 110, 835-847.	1.8	33
43	Higher immunocompetence is associated with higher genetic diversity in feral honey bee colonies ( <i>Apis</i> ) <i>Tj ETQq1 1.0,784314 rgBT /Ove</i>	1.5	25
44	Levels of selection shaping caste interactions during queen replacement in the honey bee, <i>Apis mellifera</i> . <i>Insectes Sociaux</i> , 2017, 64, 227-240.	1.2	6
45	Landscape and pesticide effects on honey bees: forager survival and expression of acetylcholinesterase and brain oxidative genes. <i>Apidologie</i> , 2017, 48, 556-571.	2.0	22
46	A national survey of managed honey bee 2015â€“2016 annual colony losses in the USA. <i>Journal of Apicultural Research</i> , 2017, 56, 328-340.	1.5	337
47	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.	2.2	99
48	In-Hive Miticides and their Effect on Queen Supersedure and Colony Growth in the Honey Bee ( <i>Apis</i> ) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</i>		20
49	Honey Bee ( <i>Apis mellifera</i> ) Queen Reproductive Potential Affects Queen Mandibular Gland Pheromone Composition and Worker Retinue Response. <i>PLoS ONE</i> , 2016, 11, e0156027.	2.5	29
50	Honey bee colonies regulate queen reproductive traits by controlling which queens survive to adulthood. <i>Insectes Sociaux</i> , 2016, 63, 169-174.	1.2	10
51	Migratory management and environmental conditions affect lifespan and oxidative stress in honey bees. <i>Scientific Reports</i> , 2016, 6, 32023.	3.3	114
52	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.	2.8	37
53	In-hive Pesticide Exposome: Assessing risks to migratory honey bees from in-hive pesticide contamination in the Eastern United States. <i>Scientific Reports</i> , 2016, 6, 33207.	3.3	148
54	The contribution of human foods to honey bee diets in a mid-sized metropolis. <i>Journal of Urban Ecology</i> , 2016, 2, juw001.	1.5	9

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55	Reduced cellular immune response in social insect lineages. <i>Biology Letters</i> , 2016, 12, 20150984.	2.3	39
56	Genetic diversity confers colony-level benefits due to individual immunity. <i>Biology Letters</i> , 2016, 12, 20151007.	2.3	24
57	A national survey of managed honey bee 2014â€“2015 annual colony losses in the USA. <i>Journal of Apicultural Research</i> , 2015, 54, 292-304.	1.5	136
58	The combined effects of miticides on the mating health of honey bee ( <i>Apis mellifera</i> L.) queens. <i>Journal of Apicultural Research</i> , 2015, 54, 275-283.	1.5	37
59	Within-Colony Variation in the Immunocompetency of Managed and Feral Honey Bees ( <i>Apis mellifera</i> L.) in Different Urban Landscapes. <i>Insects</i> , 2015, 6, 912-925.	2.2	16
60	Mating Frequencies of Honey Bee Queens ( <i>Apis mellifera</i> L.) in a Population of Feral Colonies in the Northeastern United States. <i>PLoS ONE</i> , 2015, 10, e0118734.	2.5	43
61	Comparative virulence and competition between <i>Nosema apis</i> and <i>Nosema ceranae</i> in honey bees ( <i>Apis mellifera</i> L.). <i>PLoS ONE</i> , 2015, 10, e0142031.	3.2	71
62	Development of the Honey Bee Gut Microbiome throughout the Queen-Rearing Process. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3182-3191.	3.1	97
63	A national survey of managed honey bee 2013â€“2014 annual colony losses in the USA. <i>Apidologie</i> , 2015, 46, 292-305.	2.0	224
64	A survivor population of wild colonies of European honeybees in the northeastern United States: investigating its genetic structure. <i>Apidologie</i> , 2015, 46, 654-666.	2.0	48
65	Urbanization Increases Pathogen Pressure on Feral and Managed Honey Bees. <i>PLoS ONE</i> , 2015, 10, e0142031.	2.5	70
66	Measuring sperm viability over time in honey bee queens to determine patterns in stored-sperm and queen longevity. <i>Journal of Apicultural Research</i> , 2014, 53, 493-495.	1.5	10
67	A national survey of managed honey bee 2012â€“2013 annual colony losses in the USA: results from the Bee Informed Partnership. <i>Journal of Apicultural Research</i> , 2014, 53, 1-18.	1.5	167
68	Mechanisms of social evolution: linking adaptative function with proximate mechanisms. <i>Apidologie</i> , 2014, 45, 285-288.	2.0	1
69	Impact of Food Availability, Pathogen Exposure, and Genetic Diversity on Thermoregulation in Honey Bees ( <i>Apis mellifera</i> ). <i>Journal of Insect Behavior</i> , 2014, 27, 527-539.	0.7	15
70	Bee Species Diversity Enhances Productivity and Stability in a Perennial Crop. <i>PLoS ONE</i> , 2014, 9, e97307.	2.5	66
71	Honey bees and bumble bees respond differently to inter- and intra-specific encounters. <i>Apidologie</i> , 2013, 44, 621-629.	2.0	29
72	Genetic diversity affects colony survivorship in commercial honey bee colonies. <i>Die Naturwissenschaften</i> , 2013, 100, 723-728.	1.6	67

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73	Idiopathic brood disease syndrome and queen events as precursors of colony mortality in migratory beekeeping operations in the eastern United States. <i>Preventive Veterinary Medicine</i> , 2013, 108, 225-233.	1.9	124
74	Differential effects of insemination volume and substance on reproductive changes in honey bee queens ( <i>Apis mellifera</i> ). <i>Insect Molecular Biology</i> , 2013, 22, 233-244.	2.0	31
75	The effects of honey bee ( <i>Apis mellifera</i> L.) queen reproductive potential on colony growth. <i>Insectes Sociaux</i> , 2013, 60, 65-73.	1.2	65
76	Standard methods for instrumental insemination of <i>Apis mellifera</i> queens. <i>Journal of Apicultural Research</i> , 2013, 52, 1-18.	1.5	100
77	Multiple Criteria for Evaluating Pollinator Performance in Highbush Blueberry (Ericales: Ericaceae) Agroecosystems. <i>Environmental Entomology</i> , 2013, 42, 1201-1209.	1.4	30
78	Miscellaneous standard methods for <i>Apis mellifera</i> research. <i>Journal of Apicultural Research</i> , 2013, 52, 1-53.	1.5	199
79	Chemical Profiles of Two Pheromone Glands Are Differentially Regulated by Distinct Mating Factors in Honey Bee Queens ( <i>Apis mellifera</i> L.). <i>PLoS ONE</i> , 2013, 8, e78637.	2.5	31
80	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.	2.5	88
81	Assessing the Mating "Health" of Commercial Honey Bee Queens. <i>Journal of Economic Entomology</i> , 2012, 105, 20-25.	1.8	70
82	The Bee Informed Partnership: Using Beekeeper's Real-World Experience to Solve Beekeepers' Real-World Problems. <i>American Entomologist</i> , 2012, 58, 116-118.	0.2	11
83	Pathogen Webs in Collapsing Honey Bee Colonies. <i>PLoS ONE</i> , 2012, 7, e43562.	2.5	387
84	Within- and across-colony effects of hyperpolyandry on immune function and body condition in honey bees ( <i>Apis mellifera</i> ). <i>Journal of Insect Physiology</i> , 2012, 58, 402-407.	2.0	15
85	Histological Estimates of Ovariole Number in Honey Bee Queens, <i>Apis mellifera</i> , Reveal Lack of Correlation with other Queen Quality Measures. <i>Journal of Insect Science</i> , 2011, 11, 1-11.	1.5	30
86	Genome-wide analysis of brain transcriptional changes in honey bee ( <i>Apis mellifera</i> L.) queens exposed to carbon dioxide and physical manipulation. <i>Insect Molecular Biology</i> , 2011, 20, 387-398.	2.0	23
87	The physical, insemination, and reproductive quality of honey bee queens ( <i>Apis mellifera</i> L.). <i>Apidologie</i> , 2011, 42, 1-13.	2.0	89
88	Effects of Instrumental Insemination and Insemination Quantity on Dufour's Gland Chemical Profiles and Vitellogenin Expression in Honey Bee Queens ( <i>Apis mellifera</i> ). <i>Journal of Chemical Ecology</i> , 2011, 37, 1027-1036.	1.8	31
89	Experimentally induced variation in the physical reproductive potential and mating success in honey bee queens. <i>Insectes Sociaux</i> , 2011, 58, 569-574.	1.2	46
90	Mating frequencies of Africanized honey bees in the south western USA. <i>Journal of Apicultural Research</i> , 2010, 49, 302-310.	1.5	28

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91	Colony Collapse Disorder in context. <i>BioEssays</i> , 2010, 32, 845-846.	2.5	120
92	The effects of mating and instrumental insemination on queen honey bee flight behaviour and gene expression. <i>Insect Molecular Biology</i> , 2010, 19, 153-162.	2.0	37
93	Weighing Risk Factors Associated With Bee Colony Collapse Disorder by Classification and Regression Tree Analysis. <i>Journal of Economic Entomology</i> , 2010, 103, 1517-1523.	1.8	119
94	The effects of size and reproductive quality on the outcomes of duels between honey bee queens ( <i>Apis mellifera</i> ) and <i>Overlock</i> 10	1.4	19
95	Colony Collapse Disorder: A Descriptive Study. <i>PLoS ONE</i> , 2009, 4, e6481.	2.5	933
96	Removal of Drone Brood From <i>Apis mellifera</i> (Hymenoptera: Apidae) Colonies to Control <i>Varroa destructor</i> (Acari: Varroidae) and Retain Adult Drones. <i>Journal of Economic Entomology</i> , 2009, 102, 2033-2040.	1.8	16
97	“Entombed Pollen”: A new condition in honey bee colonies associated with increased risk of colony mortality. <i>Journal of Invertebrate Pathology</i> , 2009, 101, 147-149.	3.2	68
98	Queen reproductive state modulates pheromone production and queen-worker interactions in honeybees. <i>Behavioral Ecology</i> , 2009, 20, 1007-1014.	2.2	67
99	Genomic analysis of post-mating changes in the honey bee queen ( <i>Apis mellifera</i> ). <i>BMC Genomics</i> , 2008, 9, 232.	2.8	116
100	Queen promiscuity lowers disease within honeybee colonies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 67-72.	2.6	222
101	Comparison of Parasitic Mites in Russian-Hybrid and Italian Honey Bee (Hymenoptera: Apidae) Colonies across Three Different Locations in North Carolina. <i>Journal of Economic Entomology</i> , 2007, 100, 258-266.	1.8	21
102	Effects of Insemination Quantity on Honey Bee Queen Physiology. <i>PLoS ONE</i> , 2007, 2, e980.	2.5	95
103	Comparison of Parasitic Mites in Russian-Hybrid and Italian Honey Bee (Hymenoptera: Apidae) Colonies across Three Different Locations in North Carolina. <i>Journal of Economic Entomology</i> , 2007, 100, 258-266.	1.8	17
104	Environmental and Genotypic Effects on Russian-Hybrid and Italian Honey Bee ( <i>Apis mellifera</i> ) (Hymenoptera: Apidae) Foraging Behavior. <i>Environmental Entomology</i> , 2006, 35, 1610-1616.	1.4	2
105	Environmental and Genotypic Effects on Russian-Hybrid and Italian Honey Bee ( <i>Apis mellifera</i> ) (Hymenoptera: Apidae) Foraging Behavior. <i>Environmental Entomology</i> , 2006, 35, 1610-1616.	1.4	2
106	Lower disease infections in honeybee ( <i>Apis mellifera</i> ) colonies headed by polyandrous vs monandrous queens. <i>Die Naturwissenschaften</i> , 2006, 93, 195-199.	1.6	156
107	Three mechanisms of queen elimination in swarming honey bee colonies. <i>Apidologie</i> , 2005, 36, 461-474.	2.0	36
108	Multiple micro-organisms in chalkbrood mummies: evidence and implications. <i>Journal of Apicultural Research</i> , 2005, 44, 29-32.	1.5	15

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109	Group decision making during queen production in colonies of highly eusocial bees. <i>Apidologie</i> , 2004, 35, 207-216.	2.0	23
110	Levels of selection in a social insect: a review of conflict and cooperation during honey bee ( <i>Apis</i> ) Tj ETQq0 0 0 rgBT /Overlock_10 Tf 50	1.4	88
111	A scientific note on the revised estimates of effective paternity frequency in <i>Apis</i> . <i>Insectes Sociaux</i> , 2004, 51, 203-204.	1.2	143
112	âœœSprayingâœœ Behavior During Queen Competition in Honey Bees. <i>Journal of Insect Behavior</i> , 2003, 16, 425-437.	0.7	18
113	Effect of queen quality on interactions between workers and dueling queens in honeybee ( <i>Apis</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock_10 Tf 50	1.4	48
114	Estimating effective paternity number in social insects and the effective number of alleles in a population. <i>Molecular Ecology</i> , 2003, 12, 3157-3164.	3.9	207
115	Genetic diversity within honeybee colonies prevents severe infections and promotes colony growth. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 99-103.	2.6	291
116	Patriline composition of worker populations in honeybee ( <i>Apis mellifera</i> ) colonies headed by queens inseminated with semen from African and European drones. <i>Apidologie</i> , 2003, 34, 111-120.	2.0	12
117	Sampling Error, Effective Paternity, and Estimating the Genetic Structure of Honey Bee Colonies (Hymenoptera: Apidae). <i>Annals of the Entomological Society of America</i> , 2002, 95, 513-528.	2.5	110
118	Sex determination and the evolution of polyandry in honey bees ( <i>Apis mellifera</i> ). <i>Behavioral Ecology and Sociobiology</i> , 2002, 52, 143-150.	1.4	65
119	Genotype and rearing environment affect honeybee perception and foraging behaviour. <i>Animal Behaviour</i> , 2002, 64, 663-672.	1.9	59
120	Perception of the pollen need by foragers in a honeybee colony. <i>Animal Behaviour</i> , 2000, 59, 91-96.	1.9	72
121	The influence of queen age and quality during queen replacement in honeybee colonies. <i>Animal Behaviour</i> , 2000, 59, 97-101.	1.9	78
122	Effects of relatedness on queen competition within honey bee colonies. <i>Animal Behaviour</i> , 1998, 55, 537-543.	1.9	31