

David R Tarpy

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

5,584
citations

39
h-index

72
g-index

136
ext. papers

6,594
ext. citations

3.2
avg, IF

5.94
L-index

#	Paper	IF	Citations
121	Colony collapse disorder: a descriptive study. <i>PLoS ONE</i> , 2009 , 4, e6481	3.7	760
120	Pathogen webs in collapsing honey bee colonies. <i>PLoS ONE</i> , 2012 , 7, e43562	3.7	292
119	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	4.4	241
118	A national survey of managed honey bee 2015–2016 annual colony losses in the USA. <i>Journal of Apicultural Research</i> , 2017 , 56, 328-340	2	192
117	Queen promiscuity lowers disease within honeybee colonies. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007 , 274, 67-72	4.4	189
116	Estimating effective paternity number in social insects and the effective number of alleles in a population. <i>Molecular Ecology</i> , 2003 , 12, 3157-64	5.7	189
115	A national survey of managed honey bee 2013–2014 annual colony losses in the USA. <i>Apidologie</i> , 2015 , 46, 292-305	2.3	183
114	A national survey of managed honey bee 2012–2013 annual colony losses in the USA: results from the Bee Informed Partnership. <i>Journal of Apicultural Research</i> , 2014 , 53, 1-18	2	136
113	Miscellaneous standard methods for <i>Apis mellifera</i> research. <i>Journal of Apicultural Research</i> , 2013 , 52, 1-53	2	132
112	Lower disease infections in honeybee (<i>Apis mellifera</i>) colonies headed by polyandrous vs monandrous queens. <i>Die Naturwissenschaften</i> , 2006 , 93, 195-9	2	132
111	A scientific note on the revised estimates of effective paternity frequency in <i>Apis</i> . <i>Insectes Sociaux</i> , 2004 , 51, 203-204	1.5	119
110	A national survey of managed honey bee 2014–2015 annual colony losses in the USA. <i>Journal of Apicultural Research</i> , 2015 , 54, 292-304	2	108
109	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	4.9	100
108	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, 225-33	3.1	99
107	Genomic analysis of post-mating changes in the honey bee queen (<i>Apis mellifera</i>). <i>BMC Genomics</i> , 2008 , 9, 232	4.5	98
106	Weighing risk factors associated with bee colony collapse disorder by classification and regression tree analysis. <i>Journal of Economic Entomology</i> , 2010 , 103, 1517-23	2.2	97
105	Colony Collapse Disorder in context. <i>BioEssays</i> , 2010 , 32, 845-6	4.1	95

104	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	88
103	Effects of insemination quantity on honey bee queen physiology. <i>PLoS ONE</i> , 2007 , 2, e980	3.7	84
102	Levels of selection in a social insect: a review of conflict and cooperation during honey bee (<i>Apis mellifera</i>) queen replacement. <i>Behavioral Ecology and Sociobiology</i> , 2004 , 55, 513-523	2.5	78
101	Migratory management and environmental conditions affect lifespan and oxidative stress in honey bees. <i>Scientific Reports</i> , 2016 , 6, 32023	4.9	77
100	Development of the honey bee gut microbiome throughout the queen-rearing process. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3182-91	4.8	67
99	Standard methods for instrumental insemination of <i>Apis mellifera</i> queens. <i>Journal of Apicultural Research</i> , 2013 , 52, 1-18	2	67
98	The physical, insemination, and reproductive quality of honey bee queens (<i>Apis mellifera</i> L.). <i>Apidologie</i> , 2011 , 42, 1-13	2.3	67
97	Comparative virulence and competition between <i>Nosema apis</i> and <i>Nosema ceranae</i> in honey bees (<i>Apis mellifera</i>). <i>Journal of Invertebrate Pathology</i> , 2015 , 125, 9-15	2.6	62
96	Sex determination and the evolution of polyandry in honey bees (<i>Apis mellifera</i>). <i>Behavioral Ecology and Sociobiology</i> , 2002 , 52, 143-150	2.5	62
95	Perception of the pollen need by foragers in a honeybee colony. <i>Animal Behaviour</i> , 2000 , 59, 91-96	2.8	62
94	The influence of queen age and quality during queen replacement in honeybee colonies. <i>Animal Behaviour</i> , 2000 , 59, 97-101	2.8	61
93	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,	2.8	59
92	Queen reproductive state modulates pheromone production and queen-worker interactions in honeybees. <i>Behavioral Ecology</i> , 2009 , 20, 1007-1014	2.3	57
91	Genotype and rearing environment affect honeybee perception and foraging behaviour. <i>Animal Behaviour</i> , 2002 , 64, 663-672	2.8	56
90	Medicinal value of sunflower pollen against bee pathogens. <i>Scientific Reports</i> , 2018 , 8, 14394	4.9	54
89	"Entombed Pollen": A new condition in honey bee colonies associated with increased risk of colony mortality. <i>Journal of Invertebrate Pathology</i> , 2009 , 101, 147-9	2.6	51
88	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	3.7	51
87	Genetic diversity affects colony survivorship in commercial honey bee colonies. <i>Die Naturwissenschaften</i> , 2013 , 100, 723-8	2	50

86	The effects of honey bee (<i>Apis mellifera</i> L.) queen reproductive potential on colony growth. <i>Insectes Sociaux</i> , 2013 , 60, 65-73	1.5	49
85	Urbanization Increases Pathogen Pressure on Feral and Managed Honey Bees. <i>PLoS ONE</i> , 2015 , 10, e0142631	3.7	46
84	Bee species diversity enhances productivity and stability in a perennial crop. <i>PLoS ONE</i> , 2014 , 9, e97307	3.7	45
83	Assessing the mating 'health' of commercial honey bee queens. <i>Journal of Economic Entomology</i> , 2012 , 105, 20-5	2.2	44
82	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	2.3	35
81	Experimentally induced variation in the physical reproductive potential and mating success in honey bee queens. <i>Insectes Sociaux</i> , 2011 , 58, 569-574	1.5	35
80	Effect of queen quality on interactions between workers and dueling queens in honeybee (<i>Apis mellifera</i> L.) colonies. <i>Behavioral Ecology and Sociobiology</i> , 2003 , 55, 190-196	2.5	34
79	Reduced cellular immune response in social insect lineages. <i>Biology Letters</i> , 2016 , 12, 20150984	3.6	33
78	The effects of mating and instrumental insemination on queen honey bee flight behaviour and gene expression. <i>Insect Molecular Biology</i> , 2010 , 19, 153-62	3.4	33
77	Three mechanisms of queen elimination in swarming honey bee colonies. <i>Apidologie</i> , 2005 , 36, 461-474	2.3	31
76	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, 1027-36	2.7	30
75	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	3.7	29
74	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	3.7	28
73	Honey Bee Survival and Pathogen Prevalence: From the Perspective of Landscape and Exposure to Pesticides. <i>Insects</i> , 2018 , 9,	2.8	27
72	Differential effects of insemination volume and substance on reproductive changes in honey bee queens (<i>Apis mellifera</i> L.). <i>Insect Molecular Biology</i> , 2013 , 22, 233-44	3.4	27
71	Effects of relatedness on queen competition within honey bee colonies. <i>Animal Behaviour</i> , 1998 , 55, 537-43	2.8	27
70	Quantitative patterns of vertical transmission of deformed wing virus in honey bees. <i>PLoS ONE</i> , 2018 , 13, e0195283	3.7	27
69	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	2	26

68	Vulnerability of honey bee queens to heat-induced loss of fertility. <i>Nature Sustainability</i> , 2020 , 3, 367-376	2.1	24
67	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, 387-98	3.4	23
66	Agricultural Landscape and Pesticide Effects on Honey Bee (Hymenoptera: Apidae) Biological Traits. <i>Journal of Economic Entomology</i> , 2017 , 110, 835-847	2.2	22
65	Mating frequencies of Africanized honey bees in the south western USA. <i>Journal of Apicultural Research</i> , 2010 , 49, 302-310	2	22
64	Cryptic "royal" subfamilies in honey bee (<i>Apis mellifera</i>) colonies. <i>PLoS ONE</i> , 2018 , 13, e0199124	3.7	21
63	Honey bees and bumble bees respond differently to inter- and intra-specific encounters. <i>Apidologie</i> , 2013 , 44, 621-629	2.3	21
62	Is the Brood Pattern within a Honey Bee Colony a Reliable Indicator of Queen Quality?. <i>Insects</i> , 2019 , 10,	2.8	20
61	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	2.2	20
60	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	4.5	19
59	Genetic diversity confers colony-level benefits due to individual immunity. <i>Biology Letters</i> , 2016 , 12, 20151007	3.007	19
58	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, 82	2	19
57	Multiple criteria for evaluating pollinator performance in highbush blueberry (Ericales: Ericaceae) agroecosystems. <i>Environmental Entomology</i> , 2013 , 42, 1201-9	2.1	18
56	Group decision making during queen production in colonies of highly eusocial bees. <i>Apidologie</i> , 2004 , 35, 207-216	2.3	16
55	In-Hive Miticides and their Effect on Queen Supersedure and Colony Growth in the Honey Bee (<i>Apis mellifera</i>) 2016 , 06,		16
54	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	3.7	16
53	Effects of synthetic acaricides on honey bee grooming behavior against the parasitic <i>Varroa</i> destructor mite. <i>Apidologie</i> , 2017 , 48, 483-494	2.3	15
52	Landscape and pesticide effects on honey bees: forager survival and expression of acetylcholinesterase and brain oxidative genes. <i>Apidologie</i> , 2017 , 48, 556-571	2.3	15
51	Higher immunocompetence is associated with higher genetic diversity in feral honey bee colonies (<i>Apis mellifera</i>). <i>Conservation Genetics</i> , 2017 , 18, 659-666	2.6	14

50	The effects of size and reproductive quality on the outcomes of duels between honey bee queens (<i>Apis mellifera</i> L.). <i>Ethology Ecology and Evolution</i> , 2009 , 21, 147-153	0.7	14
49	Colony-level pesticide exposure affects honey bee (<i>Apis mellifera</i> L.) royal jelly production and nutritional composition. <i>Chemosphere</i> , 2021 , 263, 128183	8.4	14
48	Feminizer and doublesex knock-outs cause honey bees to switch sexes. <i>PLoS Biology</i> , 2019 , 17, e3000256	6.7	13
47	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	1.1	13
46	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, 912-25	2.8	13
45	Multiple micro-organisms in chalkbrood mummies: evidence and implications. <i>Journal of Apicultural Research</i> , 2005 , 44, 29-32	2	13
44	Reproductive Senescence in Drones of the Honey Bee (<i>Apis mellifera</i>). <i>Insects</i> , 2019 , 10,	2.8	12
43	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, 402-7	2.4	12
42	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, 2033-40	2.2	12
41	Survey-derived best management practices for backyard beekeepers improve colony health and reduce mortality. <i>PLoS ONE</i> , 2021 , 16, e0245490	3.7	11
40	Israeli Acute Paralysis Virus: Honey Bee Queen?Worker Interaction and Potential Virus Transmission Pathways. <i>Insects</i> , 2019 , 10,	2.8	10
39	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	2.3	10
38	Effects of Temperature During Package Transportation on Queen Establishment and Survival in Honey Bees (Hymenoptera: Apidae). <i>Journal of Economic Entomology</i> , 2019 , 112, 1043-1049	2.2	9
37	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	2	9
36	The Bee Informed Partnership: Using Beekeeper's Real-World Experience to Solve Beekeepers' Real-World Problems. <i>American Entomologist</i> , 2012 , 58, 116-118	0.6	9
35	Spraying Behavior During Queen Competition in Honey Bees. <i>Journal of Insect Behavior</i> , 2003 , 16, 425-437	1	9
34	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, 258-66	2.2	9
33	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	4.9	9

32	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	2.6	8
31	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	2.3	8
30	Does viral load alter behavior of the bee parasite <i>Varroa destructor</i> ?. <i>PLoS ONE</i> , 2019 , 14, e0217975	3.7	8
29	Trade-offs between sperm viability and immune protein expression in honey bee queens (<i>Apis mellifera</i>). <i>Communications Biology</i> , 2021 , 4, 48	6.7	8
28	Candidate stress biomarkers for queen failure diagnostics. <i>BMC Genomics</i> , 2020 , 21, 571	4.5	7
27	Honey bee colonies regulate queen reproductive traits by controlling which queens survive to adulthood. <i>Insectes Sociaux</i> , 2016 , 63, 169-174	1.5	7
26	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	1.5	6
25	Honey Bee Queens and Virus Infections. <i>Viruses</i> , 2020 , 12,	6.2	6
24	Honey Bee Queens Do Not Count Mates to Assess their Mating Success. <i>Journal of Insect Behavior</i> , 2018 , 31, 200-209	1.1	6
23	Mitigating effects of pollen during paraquat exposure on gene expression and pathogen prevalence in <i>Apis mellifera</i> L. <i>Ecotoxicology</i> , 2018 , 27, 32-44	2.9	6
22	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	6.5	5
21	Transcriptomic and Epigenomic Dynamics of Honey Bees in Response to Lethal Viral Infection. <i>Frontiers in Genetics</i> , 2020 , 11, 566320	4.5	5
20	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	7	5
19	The Pathogen Profile of a Honey Bee Queen Does Not Reflect That of Her Workers. <i>Insects</i> , 2020 , 11,	2.8	4
18	The contribution of human foods to honey bee diets in a mid-sized metropolis. <i>Journal of Urban Ecology</i> , 2016 , 2, juw001	2	4
17	Experimental improvement of honey bee (<i>Apis mellifera</i>) queen quality through nutritional and hormonal supplementation. <i>Apidologie</i> , 2019 , 50, 14-27	2.3	4
16	Effects of larval Age at Grafting and Juvenile Hormone on Morphometry and Reproductive Quality Parameters of in Vitro Reared Honey Bees (Hymenoptera: Apidae). <i>Journal of Economic Entomology</i> , 2019 , 112, 2030-2039	2.2	3
15	Egg transcriptome profile responds to maternal virus infection in honey bees, <i>Apis mellifera</i> . <i>Infection, Genetics and Evolution</i> , 2020 , 85, 104558	4.5	3

14	Honey bee queen health is unaffected by contact exposure to pesticides commonly found in beeswax. <i>Scientific Reports</i> , 2021 , 11, 15151	4.9	3
13	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	2.1	2
12	Pollinator community response to planted pollinator habitat in agroecosystems over time		2
11	Honey bee queens are vulnerable to heat-induced loss of fertility		2
10	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	2.1	1
9	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,	2	1
8	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	4.9	1
7	Queen honey bees exhibit variable resilience to temperature stress. <i>PLoS ONE</i> , 2021 , 16, e0255381	3.7	1
6	Influence of brood pheromone on honey bee colony establishment and queen replacement. <i>Journal of Apicultural Research</i> , 2021 , 60, 220-228	2	0
5	Drone honey bees are disproportionately sensitive to abiotic stressors despite expressing high levels of stress response proteins.. <i>Communications Biology</i> , 2022 , 5, 141	6.7	0
4	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	5.7	0
3	Effects of planted pollinator habitat on pathogen prevalence and interspecific detection between bee species.. <i>Scientific Reports</i> , 2022 , 12, 7806	4.9	0
2	Honey Bee Viral Diseases 2021 , 253-275		
1	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	