Francis L W Ratnieks

List of Publications by Year
in descending order

205 papers	11,844 citations	23567 58 h-index	34986 98 g-index
205 all docs	205 docs citations	205 times ranked	6470 citing authors

#	Article	IF	Citations
1	Ancestral Monogamy Shows Kin Selection Is Key to the Evolution of Eusociality. Science, 2008, 320, 1213-1216.	12.6	608
2	CONFLICT RESOLUTION IN INSECT SOCIETIES. Annual Review of Entomology, 2006, 51, 581-608.	11.8	547
3	Worker policing in the honeybee. Nature, 1989, 342, 796-797.	27.8	538
4	An evolutionary ecology of individual differences. Ecology Letters, 2012, 15, 1189-1198.	6.4	380
5	Kin selection is the key to altruism. Trends in Ecology and Evolution, 2006, 21, 57-60.	8.7	342
6	Conflict in single-queen hymenopteran societies: the structure of conflict and processes that reduce conflict in advanced eusocial species. Journal of Theoretical Biology, 1992, 158, 33-65.	1.7	260
7	Clarity on Honey Bee Collapse?. Science, 2010, 327, 152-153.	12.6	247
8	Enforced altruism in insect societies. Nature, 2006, 444, 50-50.	27.8	224
9	Comparative Analysis of Worker Reproduction and Policing in Eusocial Hymenoptera Supports Relatedness Theory. American Naturalist, 2006, 168, E163-E179.	2.1	203
10	Altruism in insect societies and beyond: voluntary or enforced?. Trends in Ecology and Evolution, 2008, 23, 45-52.	8.7	165
11	Kin conflict over caste determination in social Hymenoptera. Behavioral Ecology and Sociobiology, 1999, 46, 287-297.	1.4	164
12	Trail Pheromones: An Integrative View of Their Role in Social Insect Colony Organization. Annual Review of Entomology, 2015, 60, 581-599.	11.8	164
13	Quantifying variation among garden plants in attractiveness to bees and other flowerâ€visiting insects. Functional Ecology, 2014, 28, 364-374.	3.6	160
14	Waggle Dance Distances as Integrative Indicators of Seasonal Foraging Challenges. PLoS ONE, 2014, 9, e93495.	2.5	154
15	Worker reproduction in honey-bees (Apis) and the anarchic syndrome: a review. Behavioral Ecology and Sociobiology, 2001, 50, 199-208.	1.4	153
16	Adaptive shifts in honey bee (Apis mellifera L.) guarding behavior support predictions of the acceptance threshold model. Behavioral Ecology, 2000, 11, 326-333.	2.2	151
17	Trail geometry gives polarity to ant foraging networks. Nature, 2004, 432, 907-909.	27.8	151
18	Task partitioning, division of labour and nest compartmentalisation collectively isolate hazardous waste in the leafcutting ant Atta cephalotes. Behavioral Ecology and Sociobiology, 2001, 49, 387-392.	1.4	146

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19	â€˜No entryâ€™ signal in ant foraging. Nature, 2005, 438, 442-442.	27.8	141
20	Communication in ants. Current Biology, 2006, 16, R570-R574.	3.9	137
21	Facultative worker policing in a wasp. Nature, 2000, 407, 692-693.	27.8	136
22	Pretender punishment induced by chemical signalling in a queenless ant. Nature, 2002, 419, 61-65.	27.8	136
23	Policing in queenless ponerine ants. Behavioral Ecology and Sociobiology, 2001, 50, 97-108.	1.4	134
24	Parasitic Cape honeybee workers, Apis mellifera capensis, evade policing. Nature, 2002, 415, 163-165.	27.8	126
25	Decision making in ant foragers (Lasius niger) facing conflicting private and social information. Behavioral Ecology and Sociobiology, 2011, 65, 141-148.	1.4	124
26	When Resistance Is Useless: Policing and the Evolution of Reproductive Acquiescence in Insect Societies. American Naturalist, 2004, 164, E154-E167.	2.1	120
27	The dose makes the poison: have â€œfield realisticâ€•rates of exposure of bees to neonicotinoid insecticides been overestimated in laboratory studies?. Journal of Apicultural Research, 2014, 53, 607-614.	1.5	115
28	Paternity, reproduction and conflict in vespine wasps: a model system for testing kin selection predictions. Behavioral Ecology and Sociobiology, 2001, 50, 1-8.	1.4	114
29	EVOLUTION: Policing Insect Societies. Science, 2005, 307, 54-56.	12.6	114
30	A morphologically specialized soldier caste improves colony defense in a neotropical eusocial bee. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1182-1186.	7.1	114
31	Learning and Discrimination of Individual Cuticular Hydrocarbons by Honeybees (Apis mellifera). Chemical Senses, 2005, 30, 327-335.	2.0	107
32	Gut microbiota composition is associated with environmental landscape in honey bees. Ecology and Evolution, 2018, 8, 441-451.	1.9	106
33	Dancing Bees Communicate a Foraging Preference for Rural Lands in High-Level Agri-Environment Schemes. Current Biology, 2014, 24, 1212-1215.	3.9	104
34	Evidence for a queen-produced egg-marking pheromone and its use in worker policing in the honey bee. Journal of Apicultural Research, 1995, 34, 31-37.	1.5	102
35	Worker policing and worker reproduction in Apis cerana. Behavioral Ecology and Sociobiology, 2001, 50, 371-377.	1.4	94
36	Reproductive conflicts in social animals: who has power?. Trends in Ecology and Evolution, 2003, 18, 277-282.	8.7	92

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37	Synergy between social and private information increases foraging efficiency in ants. Biology Letters, 2011, 7, 521-524.	2.3	91
38	Honey bee foraging distance depends on month and forage type. Apidologie, 2015, 46, 61-70.	2.0	89
39	A new eusocial vertebrate?. Trends in Ecology and Evolution, 2005, 20, 363-364.	8.7	86
40	Low paternity in the hornet Vespa crabro indicates that multiple mating by queens is derived in vespine wasps. Behavioral Ecology and Sociobiology, 1999, 46, 252-257.	1.4	83
41	Data reliability in citizen science: learning curve and the effects of training method, volunteer background and experience on identification accuracy of insects visiting ivy flowers. Methods in Ecology and Evolution, 2016, 7, 1226-1235.	5.2	76
42	Colony kin structure and male production in Dolichovespula wasps. Molecular Ecology, 2001, 10, 1003-1010.	3.9	75
43	Wax combs mediate nestmate recognition by guard honeybees. Animal Behaviour, 2006, 71, 773-779.	1.9	75
44	Only full-sibling families evolved eusociality. Nature, 2011, 471, E4-E5.	27.8	74
45	Ant foraging on complex trails: route learning and the role of trail pheromones in Lasius niger. Journal of Experimental Biology, 2013, 216, 188-97.	1.7	74
46	Recognition of conspecifics by honeybee guards uses nonheritable cues acquired in the adult stage. Animal Behaviour, 1999, 58, 643-648.	1.9	73
47	Flower constancy in honey bee workers (Apis mellifera) depends on ecologically realistic rewards. Journal of Experimental Biology, 2011, 214, 1397-1402.	1.7	72
48	Flower constancy in insect pollinators: Adaptive foraging behaviour or cognitive limitation?. Communicative and Integrative Biology, 2011, 4, 633-636.	1.4	72
49	Worker allocation in insect societies: coordination of nectar foragers and nectar receivers in honey bee (Apis mellifera) colonies. Behavioral Ecology and Sociobiology, 1999, 46, 73-81.	1.4	70
50	The evolution of extreme altruism and inequality in insect societies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 3169-3179.	4.0	69
51	Longevity and detection of persistent foraging trails in Pharaoh's ants, Monomorium pharaonis (L.). Animal Behaviour, 2006, 71, 351-359.	1.9	68
52	Honeybee foragers increase the use of waggle dance information when private information becomes unrewarding. Animal Behaviour, 2011, 81, 949-954.	1.9	68
53	Helping behaviour, reproductive value, and the future component of indirect fitness. Animal Behaviour, 1989, 38, 331-343.	1.9	67
54	Queen control of egg fertilization in the honey bee. Behavioral Ecology and Sociobiology, 1998, 44, 57-61.	1.4	67

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55	Heirs and spares: caste conflict and excess queen production in Melipona bees. Behavioral Ecology and Sociobiology, 2001, 50, 467-473.	1.4	65
56	Listmania: The Strengths and Weaknesses of Lists of Garden Plants to Help Pollinators. BioScience, 2014, 64, 1019-1026.	4.9	64
57	Do hornets have zombie workers?. Molecular Ecology, 2000, 9, 735-742.	3.9	62
58	The evolution of queen-rearing nepotism in social Hymenoptera: Effects of discrimination costs in swarming species. Journal of Evolutionary Biology, 1991, 4, 93-115.	1.7	61
59	British phenological records indicate high diversity and extinction rates among late-summer-flying pollinators. Biological Conservation, 2018, 222, 278-283.	4.1	61
60	Combined use of pheromone trails and visual landmarks by the common garden ant Lasius niger. Behavioral Ecology and Sociobiology, 2008, 63, 261-267.	1.4	58
61	Intra-dance variation among waggle runs and the design of efficient protocols for honey bee dance decoding. Biology Open, 2012, 1, 467-472.	1.2	58
62	Negative feedback in ants: crowding results in less trail pheromone deposition. Journal of the Royal Society Interface, 2013, 10, 20121009.	3.4	58
63	Comparative methylomics reveals gene-body H3K36me3 in Drosophila predicts DNA methylation and CpG landscapes in other invertebrates. Genome Research, 2011, 21, 1841-1850.	5.5	57
64	Caffeinated Forage Tricks Honeybees into Increasing Foraging and Recruitment Behaviors. Current Biology, 2015, 25, 2815-2818.	3.9	57
65	Public approval plus more wildlife: twin benefits of reduced mowing of amenity grass in a suburban public park in Saltdean, <scp>UK</scp>. Insect Conservation and Diversity, 2015, 8, 107-119.	3.0	57
66	Exploitative competition alters bee foraging and flower choice. Behavioral Ecology and Sociobiology, 2015, 69, 1731-1738.	1.4	57
67	There is nothing wrong with inclusive fitness. Trends in Ecology and Evolution, 2006, 21, 599-600.	8.7	55
68	Honey bee dance decoding and pollen-load analysis show limited foraging on spring-flowering oilseed rape, a potential source of neonicotinoid contamination. Agriculture, Ecosystems and Environment, 2015, 203, 62-68.	5.3	55
69	Queen Execution and Caste Conflict in the Stingless Bee Melipona beecheii. Ethology, 2004, 110, 725-736.	1.1	54
70	En garde: rapid shifts in honeybee, Apis mellifera, guarding behaviour are triggered by onslaught of conspecific intruders. Animal Behaviour, 2008, 76, 1653-1658.	1.9	53
71	Task partitioning in leafcutting ants. Acta Ethologica, 2002, 5, 1-11.	0.9	51
72	Non-lethal sampling of honey bee,Apis mellifera, DNA using wing tips. Apidologie, 2004, 35, 311-318.	2.0	50

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73	Reproduction versus work in queenless ants: when to join a hierarchy of hopeful reproductives?. Behavioral Ecology and Sociobiology, 1999, 46, 413-422.	1.4	49
74	Incorporating variability in honey bee waggle dance decoding improves the mapping of communicated resource locations. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 1143-1152.	1.6	48
75	Social Learning: The Importance of Copying Others. Current Biology, 2010, 20, R683-R685.	3.9	47
76	Sexual selection in honey bees: colony variation and the importance of size in male mating success. Behavioral Ecology, 2010, 21, 520-525.	2.2	47
77	Appetite for self-destruction: suicidal biting as a nest defense strategy in Trigona stingless bees. Behavioral Ecology and Sociobiology, 2015, 69, 273-281.	1.4	47
78	Eating locally: dance decoding demonstrates that urban honey bees in Brighton, UK, forage mainly in the surrounding urban area. Urban Ecosystems, 2015, 18, 411-418.	2.4	44
79	Hovering guards of the stingless bee Tetragonisca angustula increase colony defensive perimeter as shown by intra- and inter-specific comparisons. Behavioral Ecology and Sociobiology, 2011, 65, 1277-1282.	1.4	43
80	Induction of Premature Honey Bee (Hymenoptera: Apidae) Flight by Juvenile Hormone Analogs Administered Orally or Topically. Journal of Economic Entomology, 1987, 80, 784-787.	1.8	42
81	American Foulbrood: The Spread and Control of an Important Disease of the Honey Bee. Bee World, 1992, 73, 177-191.	0.8	41
82	Nest-mate recognition template of guard honeybees (Apis mellifera) is modified by wax comb transfer. Biology Letters, 2007, 3, 228-230.	2.3	41
83	An agent-based model to investigate the roles of attractive and repellent pheromones in ant decision making during foraging. Journal of Theoretical Biology, 2008, 255, 250-258.	1.7	41
84	Working-class royalty: bees beat the caste system. Biology Letters, 2005, 1, 125-128.	2.3	40
85	The role of wax and resin in the nestmate recognition system of a stingless bee, Tetragonisca angustula. Behavioral Ecology and Sociobiology, 2012, 66, 1-12.	1.4	40
86	Foraging of honey bees in agricultural landscapes with changing patterns of flower resources. Agriculture, Ecosystems and Environment, 2020, 291, 106792.	5.3	40
87	Most ornamental plants on sale in garden centres are unattractive to flower-visiting insects. PeerJ, 2017, 5, e3066.	2.0	40
88	THE NATURAL NEST AND NEST DENSITY OF THE AFRICANIZED HONEY BEE (HYMENOPTERA, APIDAE) NEAR TAPACHULA, CHIAPAS, MEXICO. Canadian Entomologist, 1991, 123, 353-359.	0.8	39
89	Reproductive conflict in animal societies: hierarchy length increases with colony size in queenless ponerine ants. Behavioral Ecology and Sociobiology, 2003, 54, 71-79.	1.4	39
90	Persistence to Unrewarding Feeding Locations by Honeybee Foragers (<i><scp>A</scp>pis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td 1096-1106.	1.1	39

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91	Longer tongues and swifter handling: why do more bumble bees (Bombus spp.) than honey bees (Apis mellifera) forage on lavender (Lavandula spp.)?. Ecological Entomology, 2013, 38, 323-329.	2.2	38
92	Towards integrated control of varroa: effect of variation in hygienic behaviour among honey bee colonies on mite population increase and deformed wing virus incidence. Journal of Apicultural Research, 2014, 53, 555-562.	1.5	38
93	First record of small hive beetle, Aethina tumida Murray, in South America. Journal of Apicultural Research, 2017, 56, 76-80.	1.5	38
94	Reassessing the role of the honeybee (Apis mellifera) Dufour's gland in egg marking. Die Naturwissenschaften, 2002, 89, 528-532.	1.6	37
95	Ivy: an underappreciated key resource to flowerâ€visiting insects in autumn. Insect Conservation and Diversity, 2014, 7, 91-102.	3.0	37
96	Leaf caching in Atta leafcutting ants: discrete cache formation through positive feedback. Animal Behaviour, 2000, 59, 587-591.	1.9	36
97	Darwin's special difficulty: the evolution of â€œneuter insectsâ€•and current theory. Behavioral Ecology and Sociobiology, 2011, 65, 481-492.	1.4	36
98	Standing and hovering guards of the stingless bee Tetragonisca angustula complement each other in entrance guarding and intruder recognition. Journal of Apicultural Research, 2009, 48, 209-214.	1.5	33
99	Social learning strategies in honeybee foragers: do the costs of using private information affect the use of social information?. Animal Behaviour, 2013, 85, 1443-1449.	1.9	32
100	the mortality of phoreticVarroa destructormites and their honey bee hosts. Journal of Apicultural Research, 2015, 54, 108-120.	1.5	32
101	On the Robustness of Split Sex Ratio Predictions In Social Hymenoptera. Journal of Theoretical Biology, 1997, 185, 423-439.	1.7	31
102	Why do honey-bee (Apis millifera) foragers transfer nectar to several receivers? Information improvement through multiple sampling in a biological system. Behavioral Ecology and Sociobiology, 2001, 49, 244-250.	1.4	31
103	Odour transfer in stingless bee marmelada (Frieseomelitta varia) demonstrates that entrance guards use an â€œundesirableâ€“absentâ€•recognition system. Behavioral Ecology and Sociobiology, 2008, 62, 1099-1105.	1.4	31
104	Seasonal variation in exploitative competition between honeybees and bumblebees. Oecologia, 2020, 192, 351-361.	2.0	28
105	Reproduction of Varroa destructor in worker brood of Africanized honey bees (Apis mellifera). Experimental and Applied Acarology, 2002, 27, 79-88.	1.6	27
106	Egg marking pheromones of anarchistic worker honeybees (Apis mellifera). Behavioral Ecology, 2004, 15, 839-844.	2.2	27
107	Honey bee waggle dance communication: signal meaning and signal noise affect dance follower behaviour. Behavioral Ecology and Sociobiology, 2013, 67, 549-556.	1.4	27
108	Preemptive Defensive Selfâ€Sacrifice by Ant Workers. American Naturalist, 2008, 172, E239-E243.	2.1	26

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109	The role of floral oils in the nestmate recognition system of honey bees (Apis melliferaL.). Apidologie, 2000, 31, 357-365.	2.0	25
110	Survey of insect visitation of ornamental flowers in Southover Grange garden, Lewes, UK. Insect Science, 2015, 22, 700-705.	3.0	25
111	Following the dance: Ground survey of flowers and flower-visiting insects in a summer foraging hotspot identified via honey bee waggle dance decoding. Agriculture, Ecosystems and Environment, 2015, 213, 265-271.	5.3	25
112	Exploitative competition and displacement mediated by eusocial bees: experimental evidence in a wild pollinator community. Behavioral Ecology and Sociobiology, 2020, 74, 1.	1.4	25
113	Importance of the Sting in the Evolution of Sociality in the Hymenoptera. Annals of the Entomological Society of America, 1989, 82, 1-5.	2.5	24
114	Egg-marking pheromones in honey-bees Apis mellifera. Behavioral Ecology and Sociobiology, 2002, 51, 590-591.	1.4	24
115	Partial nectar loads as a cause of multiple nectar transfer in the honey bee (Apis mellifera): a simulation model. Journal of Theoretical Biology, 2003, 222, 1-8.	1.7	24
116	Pheromone trails in the Brazilian ant Pheidole oxyops: extreme properties and dual recruitment action. Behavioral Ecology and Sociobiology, 2012, 66, 1149-1156.	1.4	24
117	Evolution of unstable and stable biparental care. Behavioral Ecology, 1996, 7, 490-493.	2.2	23
118	Leaf caching in the leafcutting ant Atta colombica: organizational shift, task partitioning and making the best of a bad job. Animal Behaviour, 2001, 62, 227-234.	1.9	23
119	Task-partitioned nectar transfer in stingless bees: work organisation in a phylogenetic context. Ecological Entomology, 2002, 27, 163-168.	2.2	23
120	Sex allocation conflict in insect societies: who wins?. Biology Letters, 2009, 5, 700-704.	2.3	23
121	Hygienic Behavior in Honey Bees (Hymenoptera: Apidae): Effects of Brood, Food, and Time of the Year. Journal of Economic Entomology, 2013, 106, 2280-2285.	1.8	23
122	Honeybee guards do not use food-derived odors to recognize non-nest mates: a test of the Odor Convergence hypothesis. Behavioral Ecology, 2001, 12, 47-50.	2.2	22
123	Context affects nestmate recognition errors in honey bees and stingless bees. Journal of Experimental Biology, 2013, 216, 3055-61.	1.7	22
124	Quality versus quantity: Foraging decisions in the honeybee (Apis mellifera scutellata) feeding on wildflower nectar and fruit juice. Ecology and Evolution, 2016, 6, 7156-7165.	1.9	22
125	Spite in social insects. Trends in Ecology and Evolution, 2000, 15, 469-470.	8.7	21
126	Non-transferable signals on ant queen eggs. Die Naturwissenschaften, 2006, 93, 136-140.	1.6	21

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127	New role for majors in Atta leafcutter ants. Ecological Entomology, 2007, 32, 451-454.	2.2	21
128	The effect of one generation of controlled mating on the expression of hygienic behaviour in honey bees. Journal of Apicultural Research, 2014, 53, 563-568.	1.5	21
129	Using the waggle dance to determine the spatial ecology of honey bees during commercial crop pollination. Agricultural and Forest Entomology, 2017, 19, 210-216.	1.3	21
130	Assessment of queen mating frequency by workers in social hymenoptera. Journal of Theoretical Biology, 1990, 142, 87-93.	1.7	20
131	Prior experience with eggs laid by non-nestmate queens induces egg acceptance errors in ant workers. Behavioral Ecology and Sociobiology, 2007, 62, 223-228.	1.4	20
132	Two independent mechanisms of egg recognition in worker Formica fusca ants. Behavioral Ecology and Sociobiology, 2009, 63, 573-580.	1.4	20
133	Co-occurrence of three types of egg policing in the Norwegian wasp Dolichovespula norwegica. Behavioral Ecology and Sociobiology, 2011, 65, 633-640.	1.4	20
134	Landscape Scale Study of the Net Effect of Proximity to a Neonicotinoid-Treated Crop on Bee Colony Health. Environmental Science & Technology, 2017, 51, 10825-10833.	10.0	20
135	Geometry explains the benefits of division of labour in a leafcutter ant. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 1255-1260.	2.6	19
136	Working against gravity: horizontal honeybee waggle runs have greater angular scatter than vertical waggle runs. Biology Letters, 2012, 8, 540-543.	2.3	19
137	Using the British National Collection of Asters to Compare the Attractiveness of 228 Varieties to Flower-Visiting Insects. Environmental Entomology, 2015, 44, 638-646.	1.4	19
138	The Population Density of Feral Colonies of Honey Bees (Hymenoptera: Apidae) in a City in Upstate New York. Journal of Economic Entomology, 1990, 83, 81-83.	1.8	18
139	Absence of nepotism toward imprisoned young queens during swarming in the honey bee. Behavioral Ecology, 2005, 16, 403-409.	2.2	18
140	Wind slows play: increasing wind speed reduces flower visiting rate in honey bees. Animal Behaviour, 2021, 178, 87-93.	1.9	18
141	The disproportionate value of â€˜weedsâ€™ to pollinators and biodiversity. Journal of Applied Ecology, 2022, 59, 1209-1218.	4.0	18
142	Effect of Trail Bifurcation Asymmetry and Pheromone Presence or Absence on Trail Choice by Lasius niger Ants. Ethology, 2014, 120, 768-775.	1.1	16
143	Hygienic behaviour in Brazilian stingless bees. Biology Open, 2016, 5, 1712-1718.	1.2	16
144	Size matters: Significant negative relationship between mature plant mass and residual neonicotinoid levels in seed-treated oilseed rape and maize crops. Agriculture, Ecosystems and Environment, 2016, 215, 85-88.	5.3	16

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145	A non-policing honey bee colony (Apis mellifera capensis). Die Naturwissenschaften, 2002, 89, 479-482.	1.6	15
146	Coupled computational simulation and empirical research into the foraging system of Pharaohâ€™s ant (Monomorium pharaonis). BioSystems, 2004, 76, 101-112.	2.0	15
147	Recognition errors by honey bee (Apis mellifera) guards demonstrate overlapping cues in conspecific recognition. Journal of Apicultural Research, 2009, 48, 225-232.	1.5	15
148	Collective decision making in a heterogeneous environment: Lasius niger colonies preferentially forage at easy to learn locations. Animal Behaviour, 2015, 104, 189-195.	1.9	15
149	Patch size has no effect on insect visitation rate per unit area in garden-scale flower patches. Acta Oecologica, 2015, 62, 53-57.	1.1	14
150	Thug life: bramble (<scp>Rubus fruticosus</scp> L. agg.) is a valuable foraging resource for honeybees and diverse flowerâ€visiting insects. Insect Conservation and Diversity, 2020, 13, 543-557.	3.0	14
151	Honeybee swarms accept bait hives contaminated with American foulbrood disease. Ecological Entomology, 1989, 14, 475-478.	2.2	13
152	Are mistakes inevitable? Sex allocation specialization by workers can reduce the genetic information needed to assess queen mating frequency. Journal of Theoretical Biology, 2007, 244, 470-477.	1.7	13
153	Busy Bees: Variation in Insect Flower-Visiting Rates across Multiple Plant Species. Psyche: Journal of Entomology, 2015, 2015, 1-7.	0.9	13
154	Garden varieties: How attractive are recommended garden plants to butterflies?. Journal of Insect Conservation, 2016, 20, 141-148.	1.4	13
155	Dancing to her own beat: honey bee foragers communicate via individually calibrated waggle dances. Journal of Experimental Biology, 2016, 219, 1287-9.	1.7	13
156	Energetic efficiency of foraging mediates bee niche partitioning. Ecology, 2021, 102, e03285.	3.2	13
157	Diploid Male Production Results in Queen Death in the Stingless Bee Scaptotrigona depilis. Journal of Chemical Ecology, 2017, 43, 403-410.	1.8	12
158	Both hygienic and non-hygienic honeybee, Apis mellifera , colonies remove dead and diseased larvae from open brood cells. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170201.	4.0	12
159	Multiple methods of assessing nectar foraging conditions indicate peak foraging difficulty in late season. Insect Conservation and Diversity, 2020, 13, 532-542.	3.0	12
160	Garden centre customer attitudes to pollinators and pollinator-friendly planting. PeerJ, 2019, 7, e7088.	2.0	12
161	Olfactory cues and Vespula wasp recognition by honey bee guards. Apidologie, 2004, 35, 461-468.	2.0	11
162	Alarm Pheromones Do Not Mediate Rapid Shifts in Honey Bee Guard Acceptance Threshold. Journal of Chemical Ecology, 2010, 36, 1306-1308.	1.8	11

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163	Factors influencing survival duration and choice of virgin queens in the stingless bee Melipona quadrifasciata. Die Naturwissenschaften, 2013, 100, 571-580.	1.6	11
164	Recognition of nestmate eggs in the ant Formica fusca is based on queen derived cues. Environmental Epigenetics, 2014, 60, 131-136.	1.8	11
165	Organization enhances collective vigilance in the hovering guards of Tetragonisca angustula bees. Behavioral Ecology, 2018, 29, 1105-1112.	2.2	11
166	The organization of soil disposal by ants. Animal Behaviour, 2008, 75, 1389-1399.	1.9	10
167	twice with oxalic acid via sublimation. Journal of Apicultural Research, 2018, 57, 438-443.	1.5	10
168	Roof Top Hives: Practical Beekeeping or Publicity Stunt?. Bee World, 2016, 93, 64-67.	0.8	9
169	Task Partitioning in Insect Societies. I. Effect of Colony Size on Queueing Delay and Colony Ergonomic Efficiency. American Naturalist, 1999, 154, 521.	2.1	9
170	Evolution of discriminatory aggression in marine invertebrates. Journal of Theoretical Biology, 1991, 152, 557-565.	1.7	8
171	Characterization of queen-specific components of the fluid released by fighting honey bee queens. Chemoecology, 1999, 9, 161-167.	1.1	8
172	Sand Pile Formation in Dorymyrmex Ants. Journal of Insect Behavior, 2005, 18, 505-512.	0.7	8
173	Model of collective decision-making in nestmate recognition fails to account for individual discriminator responses and non-independent discriminator errors. Behavioral Ecology and Sociobiology, 2012, 66, 339-341.	1.4	8
174	Rapid up- and down-regulation of pheromone signalling due to trail crowding in the ant Lasius niger. Behaviour, 2014, 151, 669-682.	0.8	8
175	Killing and Replacing Queen-Laid Eggs: Low Cost of Worker Policing in the Honeybee. American Naturalist, 2014, 184, 110-118.	2.1	8
176	Can Beekeeping Improve Mental Wellbeing during Times of Crisis?. Bee World, 2022, 99, 40-43.	0.8	8
177	Clover in agriculture: combined benefits for bees, environment, and farmer. Journal of Insect Conservation, 2022, 26, 339-357.	1.4	8
178	Invasion of sibmating genes in diploid and haplodiploid populations. Evolutionary Ecology, 1992, 6, 312-330.	1.2	7
179	Comparing alternative methods of introducing virgin queens (Apis mellifera) into mating nucleus hives. Apidologie, 2006, 37, 571-576.	2.0	7
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