Nigel E Raine

List of Publications by Year
in descending order

89 papers	8,107 citations	46918 47 h-index	60497 81 g-index
97 all docs	97 docs citations	97 times ranked	6790 citing authors

#	Article	IF	Citations
1	Acute oral toxicity and risks of four classes of systemic insecticide to the Common Eastern Bumblebee (Bombus impatiens). Chemosphere, 2022, 295, 133771.	4.2	18
2	<scp>CropPol</scp>: A dynamic, open and global database on crop pollination. Ecology, 2022, 103, e3614.	1.5	19
3	Fungicides and bees: a review of exposure and risk. Environment International, 2022, 165, 107311.	4.8	42
4	Quantifying exposure of bumblebee (Bombus spp.) queens to pesticide residues when hibernating in agricultural soils. Environmental Pollution, 2022, 309, 119722.	3.7	13
5	<i>C</i>-Band Telemetry of Insect Pollinators Using a Miniature Transmitter and a Self-Piloted Drone. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 938-946.	2.9	9
6	Captive-reared migratory monarch butterflies show natural orientation when released in the wild. , 2021, 9, coab032.		9
7	Population decline in a ground-nesting solitary squash bee (Eucera pruinosa) following exposure to a neonicotinoid insecticide treated crop (Cucurbita pepo). Scientific Reports, 2021, 11, 4241.	1.6	62
8	Hoary Squash Bees (<i>Eucera pruinosa</i>: Hymenoptera: Apidae) Provide Abundant and Reliable Pollination Services to <i>Cucurbita</i> Crops in Ontario (Canada). Environmental Entomology, 2021, 50, 968-981.	0.7	12
9	Odour Learning Bees Have Longer Foraging Careers Than Non-learners in a Natural Environment. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	8
10	Effects of early-life exposure to sublethal levels of a common neonicotinoid insecticide on the orientation and migration of monarch butterflies (<i>Danaus plexippus</i>). Journal of Experimental Biology, 2021, 224, .	0.8	5
11	Phenological synchrony between the hoary squash bee (Eucera pruinosa) and cultivated acorn squash (Cucurbita pepo) flowering is imperfect at a northern site. Current Research in Insect Science, 2021, 1, 100022.	0.8	1
12	Assessment of risk to hoary squash bees (Peponapis pruinosa) and other ground-nesting bees from systemic insecticides in agricultural soil. Scientific Reports, 2019, 9, 11870.	1.6	69
13	Workshop on Pesticide Exposure Assessment Paradigm for Non-<i>Apis</i>Bees: Foundation and Summaries. Environmental Entomology, 2019, 48, 4-11.	0.7	52
14	Moving beyond honeybee-centric pesticide risk assessments to protect all pollinators. Nature Ecology and Evolution, 2019, 3, 1373-1375.	3.4	60
15	Pesticide Exposure Assessment Paradigm for Solitary Bees. Environmental Entomology, 2019, 48, 22-35.	0.7	129
16	A spatial network analysis of resource partitioning between bumblebees foraging on artificial flowers in a flight cage. Movement Ecology, 2019, 7, 4.	1.3	16
17	Comparison of Pesticide Exposure in Honey Bees (Hymenoptera: Apidae) and Bumble Bees (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT	0.7	97
18	æµ¸é€æ€§è¾²è–¬ã®æ¹æ·±ã‚„å•é¡Œ. Nature Digest, 2018, 15, 31-33.	0.0	0

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19	Pesticide affects social behavior of bees. Science, 2018, 362, 643-644.	6.0	9
20	When too much isnâ€™t enough: Does current food production meet global nutritional needs?. PLoS ONE, 2018, 13, e0205683.	1.1	110
21	An alternative to controversial pesticides still harms bumblebees. Nature, 2018, 561, 40-41.	13.7	22
22	General and species-specific impacts of a neonicotinoid insecticide on the ovary development and feeding of wild bumblebee queens. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170123.	1.2	74
23	Fast learning in free-foraging bumble bees is negatively correlated with lifetime resource collection. Scientific Reports, 2017, 7, 496.	1.6	43
24	Bumblebee colony development following chronic exposure to field-realistic levels of the neonicotinoid pesticide thiamethoxam under laboratory conditions. Scientific Reports, 2017, 7, 8005.	1.6	21
25	Pesticide reduces bumblebee colony initiation and increases probability of population extinction. Nature Ecology and Evolution, 2017, 1, 1308-1316.	3.4	123
26	Investigating the impacts of fieldâ€realistic exposure to a neonicotinoid pesticide on bumblebee foraging, homing ability and colony growth. Journal of Applied Ecology, 2016, 53, 1440-1449.	1.9	139
27	Chronic exposure to a neonicotinoid pesticide alters the interactions between bumblebees and wild plants. Functional Ecology, 2016, 30, 1132-1139.	1.7	83
28	Reproductive environment affects learning performance in bumble bees. Behavioral Ecology and Sociobiology, 2016, 70, 2053-2060.	0.6	8
29	Initial recommendations for higherâ€tier risk assessment protocols for bumble bees, <i>Bombus</i> spp. (Hymenoptera: Apidae). Integrated Environmental Assessment and Management, 2016, 12, 222-229.	1.6	32
30	Exploring miniature insect brains using micro-CT scanning techniques. Scientific Reports, 2016, 6, 21768.	1.6	80
31	Monitoring Flower Visitation Networks and Interactions between Pairs of Bumble Bees in a Large Outdoor Flight Cage. PLoS ONE, 2016, 11, e0150844.	1.1	27
32	Pesticide impacts on bees: From individual behaviour to pollination services. , 2016, , .		0
33	Bumblebee learning and memory is impaired by chronic exposure to a neonicotinoid pesticide. Scientific Reports, 2015, 5, 16508.	1.6	141
34	Tasteless pesticides affect bees in the field. Nature, 2015, 521, 38-39.	13.7	36
35	A restatement of recent advances in the natural science evidence base concerning neonicotinoid insecticides and insect pollinators. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151821.	1.2	161
36	Neonicotinoid pesticide exposure impairs crop pollination services provided by bumblebees. Nature, 2015, 528, 548-550.	13.7	249

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37	Chronic impairment of bumblebee natural foraging behaviour induced by sublethal pesticide exposure. Functional Ecology, 2014, 28, 1459-1471.	1.7	220
38	Impact of chronic exposure to a pyrethroid pesticide on bumblebees and interactions with a trypanosome parasite. Journal of Applied Ecology, 2014, 51, 460-469.	1.9	54
39	Bumblebee colour patterns and predation risk: a reply to Owen (2014). Journal of Zoology, 2014, 292, 133-135.	0.8	0
40	A restatement of the natural science evidence base concerning neonicotinoid insecticides and insect pollinators. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140558.	1.2	308
41	A comparison of visual and olfactory learning performance in the bumblebee Bombus terrestris. Behavioral Ecology and Sociobiology, 2014, 68, 1549-1559.	0.6	27
42	Foraging errors play a role in resource exploration by bumble bees (Bombus terrrestris). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2014, 200, 475-484.	0.7	28
43	Behavioural syndromes and social insects: personality at multiple levels. Biological Reviews, 2014, 89, 48-67.	4.7	268
44	Changes in Learning and Foraging Behaviour within Developing Bumble Bee (Bombus terrestris) Colonies. PLoS ONE, 2014, 9, e90556.	1.1	55
45	Chronic sublethal stress causes bee colony failure. Ecology Letters, 2013, 16, 1463-1469.	3.0	175
46	The microsporidian parasites Nosema ceranae and Nosema apis are widespread in honeybee (Apis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	22
47	Bee careful. New Scientist, 2013, 218, 31.	0.0	0
48	Threats to an ecosystem service: pressures on pollinators. Frontiers in Ecology and the Environment, 2013, 11, 251-259.	1.9	980
49	Identifying key knowledge needs for evidenceâ€based conservation of wild insect pollinators: a collaborative crossâ€sectoral exercise. Insect Conservation and Diversity, 2013, 6, 435-446.	1.4	61
50	Unravelling the mechanisms of trapline foraging in bees. Communicative and Integrative Biology, 2013, 6, e22701.	0.6	30
51	Bee positive: the importance of electroreception in pollinator cognitive ecology. Frontiers in Psychology, 2013, 4, 445.	1.1	2
52	Radar Tracking and Motion-Sensitive Cameras on Flowers Reveal the Development of Pollinator Multi-Destination Routes over Large Spatial Scales. PLoS Biology, 2012, 10, e1001392.	2.6	127
53	Bees do not use nearest-neighbour rules for optimization of multi-location routes. Biology Letters, 2012, 8, 13-16.	1.0	54
54	Combined pesticide exposure severely affects individual- and colony-level traits in bees. Nature, 2012, 491, 105-108.	13.7	759

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55	No Trade-Off between Learning Speed and Associative Flexibility in Bumblebees: A Reversal Learning Test with Multiple Colonies. PLoS ONE, 2012, 7, e45096.	1.1	77
56	Tradeâ€off between travel distance and prioritization of highâ€reward sites in traplining bumblebees. Functional Ecology, 2011, 25, 1284-1292.	1.7	74
57	Effects of aposematic coloration on predation risk in bumblebees? A comparison between differently coloured populations, with consideration of the ultraviolet. Journal of Zoology, 2010, 282, 75-83.	0.8	16
58	Travel Optimization by Foraging Bumblebees through Readjustments of Traplines after Discovery of New Feeding Locations. American Naturalist, 2010, 176, 744-757.	1.0	108
59	Cognitive Ecology: Environmental Dependence of the Fitness Costs of Learning. Current Biology, 2009, 19, R486-R488.	1.8	7
60	How floral odours are learned inside the bumblebee (Bombus terrestris) nest. Die Naturwissenschaften, 2009, 96, 213-219.	0.6	68
61	A population comparison of the strength and persistence of innate colour preference and learning speed in the bumblebee Bombus terrestris. Behavioral Ecology and Sociobiology, 2009, 63, 1207-1218.	0.6	91
62	Floral volatiles controlling ant behaviour. Functional Ecology, 2009, 23, 888-900.	1.7	98
63	Lifetime reproductive success and longevity of queens in an annual social insect. Journal of Evolutionary Biology, 2009, 22, 983-996.	0.8	55
64	Potential application of the bumblebee foraging recruitment pheromone for commercial greenhouse pollination. Apidologie, 2009, 40, 608-616.	0.9	5
65	Speedâ€"accuracy tradeoffs in animal decision making. Trends in Ecology and Evolution, 2009, 24, 400-407.	4.2	473
66	No evidence for an evolutionary trade-off between learning and immunity in a social insect. Biology Letters, 2009, 5, 55-57.	1.0	7
67	Geographic profiling applied to testing models of bumble-bee foraging. Journal of the Royal Society Interface, 2009, 6, 307-319.	1.5	35
68	Measuring the Adaptiveness of Social Insect Foraging Strategies. Contemporary Topics in Entomology Series, 2009, , 9-28.	0.3	0
69	Colony nutritional status modulates worker responses to foraging recruitment pheromone in the bumblebee Bombus terrestris. Behavioral Ecology and Sociobiology, 2008, 62, 1919-1926.	0.6	62
70	The correlation of learning speed and natural foraging success in bumble-bees. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 803-808.	1.2	272
71	Bumblebees gain fitness through learning. Nature Precedings, 2007, , .	0.1	0
72	Pollen foraging: learning a complex motor skill by bumblebees (Bombus terrestris). Die Naturwissenschaften, 2007, 94, 459-464.	0.6	96

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73	Plantâ€“pollinator interactions in a Mexican Acacia community. Arthropod-Plant Interactions, 2007, 1, 101-117.	0.5	30
74	BlÃ¼tenstetigkeit und GedÃ¤chtnisdynamik bei Hummeln (Hymenoptera: Apidae: Bombus). Entomologia Generalis, 2007, 29, 179-199.	1.1	82
75	Mengen der Nektarerzeugung bei 75 von Hummeln besuchten Blumenarten in einem deutschen Pflanzenbestand (Hymenoptera: Apidae: Bombus terrestris). Entomologia Generalis, 2007, 30, 191-192.	1.1	21
76	The Adaptive Significance of Sensory Bias in a Foraging Context: Floral Colour Preferences in the Bumblebee Bombus terrestris. PLoS ONE, 2007, 2, e556.	1.1	186
77	Adaptation, Genetic Drift, Pleiotropy, and History in the Evolution of Bee Foraging Behavior. Advances in the Study of Behavior, 2006, , 305-354.	1.0	114
78	Quantifying honey bee mating range and isolation in semi-isolated valleys by DNA microsatellite paternity analysis. Conservation Genetics, 2006, 6, 527-537.	0.8	56
79	Social Learning: Ants and the Meaning of Teaching. Current Biology, 2006, 16, R323-R325.	1.8	52
80	Recognition of flowers by pollinators. Current Opinion in Plant Biology, 2006, 9, 428-435.	3.5	368
81	Unterschiede im Lernverhalten zwischen Kolonien einer freilebenden Britischen Hummelpopulation (Hymenoptera: Apidae: Bombus terrestris audax). Entomologia Generalis, 2006, 28, 241-256.	1.1	71
82	Partnerwahl-PrÃ¤ferenzen bei der kommerziell importierten Hummel-Art Bombus terrestris in GroÃŸbritannien (Hymenoptera: Apidae). Entomologia Generalis, 2005, 28, 233-238.	1.1	30
83	Vergleich der BlÃ¼tenstetigkeit und Sammelleistung von drei Hummel-Arten (Hymenoptera: Apidae:) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	33
84	Non-lethal sampling of honey bee,Apis mellifera, DNA using wing tips. Apidologie, 2004, 35, 311-318.	0.9	50
85	Guards and thieves: antagonistic interactions between two ant species coexisting on the same ant-plant. Ecological Entomology, 2004, 29, 345-352.	1.1	51
86	Chance and adaptation in the evolution of island bumblebee behaviour. Population Ecology, 2004, 46, 243-251.	0.7	86
87	Pollination ecology of acacias (Fabaceae, Mimosoideae). Australian Systematic Botany, 2003, 16, 103.	0.3	97
88	Spatial Structuring and Floral Avoidance Behavior Prevent Ant-Pollinator Conflict in a Mexican Ant-Acacia. Ecology, 2002, 83, 3086.	1.5	3
89	SPATIAL STRUCTURING AND FLORAL AVOIDANCE BEHAVIOR PREVENT ANTâ€“POLLINATOR CONFLICT IN A MEXICAN ANT-ACACIA. Ecology, 2002, 83, 3086-3096.	1.5	76