Robert J Gegear

List of Publications by Year
in descending order

39 papers	2,779 citations	331670 21 h-index	395702 33 g-index
41 all docs	41 docs citations	41 times ranked	2553 citing authors

#	Article	IF	Citations
1	Cryptochrome mediates light-dependent magnetosensitivity in Drosophila. Nature, 2008, 454, 1014-1018.	27.8	366
2	Plight of the bumble bee: Pathogen spillover from commercial to wild populations. Biological Conservation, 2006, 129, 461-467.	4.1	285
3	Animal cryptochromes mediate magnetoreception by an unconventional photochemical mechanism. Nature, 2010, 463, 804-807.	27.8	233
4	Human cryptochrome exhibits light-dependent magnetosensitivity. Nature Communications, 2011, 2, 356.	12.8	176
5	Bumble-bee foragers infected by a gut parasite have an impaired ability to utilize floral information. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1073-1078.	2.6	167
6	Navigational mechanisms of migrating monarch butterflies. Trends in Neurosciences, 2010, 33, 399-406.	8.6	167
7	Antennal Circadian Clocks Coordinate Sun Compass Orientation in Migratory Monarch Butterflies. Science, 2009, 325, 1700-1704.	12.6	154
8	A magnetic compass aids monarch butterfly migration. Nature Communications, 2014, 5, 4164.	12.8	122
9	Flower constancy in bumblebees: a test of the trait variability hypothesis. Animal Behaviour, 2005, 69, 939-949.	1.9	115
10	Defining behavioral and molecular differences between summer and migratory monarch butterflies. BMC Biology, 2009, 7, 14.	3.8	102
11	Ecological context influences pollinator deterrence by alkaloids in floral nectar. Ecology Letters, 2007, 10, 375-382.	6.4	93
12	Does parasitic infection impair the ability of bumblebees to learn flower-handling techniques?. Animal Behaviour, 2005, 70, 209-215.	1.9	87
13	Bumblebees Learn to Forage like Bayesians. American Naturalist, 2009, 174, 413-423.	2.1	86
14	Effects of parasitic mites and protozoa on the flower constancy and foraging rate of bumble bees. Behavioral Ecology and Sociobiology, 2005, 58, 383-389.	1.4	85
15	Does the Flower Constancy of Bumble Bees Reflect Foraging Economics?. Ethology, 2004, 110, 793-805.	1.1	60
16	Discordant timing between antennae disrupts sun compass orientation in migratory monarch butterflies. Nature Communications, 2012, 3, 958.	12.8	52
17	Effect of flower complexity on relearning flower-handling skills in bumble bees. Canadian Journal of Zoology, 1995, 73, 2052-2058.	1.0	47
18	The Birds, the Bees, and the Virtual Flowers: Can Pollinator Behavior Drive Ecological Speciation in Flowering Plants?. American Naturalist, 2007, 170, 551-566.	2.1	47

#	Article	IF	Citations
19	How many flower types can bumble bees work at the same time?. Canadian Journal of Zoology, 1998, 76, 1358-1365.	1.0	46
20	The effect of variation among floral traits on the flower constancy of pollinators. , 2001, , 1-20.		45
21	Multicomponent floral signals elicit selective foraging in bumblebees. Die Naturwissenschaften, 2005, 92, 269-271.	1.6	40
22	â€œHummingbirdâ€•floral traits interact synergistically to discourage visitation by bumble bee foragers. Ecology, 2017, 98, 489-499.	3.2	35
23	Habitat assessment ability of bumble-bees implies frequency-dependent selection on floral rewards and display size. Proceedings of the Royal Society B: Biological Sciences, 2007, 274, 2595-2601.	2.6	23
24	Effect of a colour dimorphism on the flower constancy of honey bees and bumble bees. Canadian Journal of Zoology, 2004, 82, 587-593.	1.0	21
25	Scented nectar and the challenge of measuring honest signals in pollination. Journal of Ecology, 2020, 108, 2132-2144.	4.0	20
26	Adaptive Foraging of Pollinators Can Promote Pollination of a Rare Plant Species. American Naturalist, 2018, 192, E81-E92.	2.1	16
27	Effect of greenhouse polyethelene covering on activity level and photo-response of bumble bees. Canadian Entomologist, 2002, 134, 539-549.	0.8	14
28	One size does not fit all: Caste and sex differences in the response of bumblebees (Bombus impatiens) to chronic oral neonicotinoid exposure. PLoS ONE, 2018, 13, e0200041.	2.5	14
29	Distinct neuropeptide-receptor modules regulate a sex-specific behavioral response to a pheromone. Communications Biology, 2021, 4, 1018.	4.4	10
30	Immune-cognitive system connectivity reduces bumblebee foraging success in complex multisensory floral environments. Scientific Reports, 2018, 8, 5953.	3.3	8
31	Memory Matters: Bumblebee Behavioral Models for Vehicle-to-Vehicle Communications. IEEE Access, 2018, 6, 25437-25447.	4.2	8
32	Modeling scale up of anthropogenic impacts from individual pollinator behavior to pollination systems. Conservation Biology, 2021, 35, 1519-1529.	4.7	8
33	Bumblebees Learn to Forage like Bayesians. American Naturalist, 2009, 174, 413.	2.1	8
34	On the Capacity Bounds for Bumblebee-Inspired Connected Vehicle Networks via Queuing Theory. , 2018, , .		7
35	Bumblebee-Inspired C-V2X Dynamic Spectrum Access Testbed Using OpenAirInterface. , 2020, , .		4
36	Experimental Test-Bed for Bumblebee-Inspired Channel Selection in an Ad-Hoc Network. , 2018, , .		3

#	Article	IF	Citations
37	Exploring the Role of Cognition in the Annual Fall Migration of the Monarch Butterfly (Danaus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.2	2
38	The Birds, the Bees, and the Virtual Flowers: Can Pollinator Behavior Drive Ecological Speciation in Flowering Plants?. American Naturalist, 2007, 170, 551.	2.1	0
39	Choosing your own adventure: Engaging the new learning society through integrative curriculum design. , 0, , .		0