Juliet L Osborne

List of Publications by Year
in descending order

87	7,203	53794 45	60623 81
papers	citations	h-index	g-index

89	89	89	6131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Disease associations between honeybees and bumblebees as a threat to wild pollinators. Nature, 2014, 506, 364-366.	27.8	520
2	Bumblebee vulnerability and conservation world-wide. Apidologie, 2009, 40, 367-387.	2.0	442
3	Bumblebee flight distances in relation to the forage landscape. Journal of Animal Ecology, 2008, 77, 406-415.	2.8	330
4	An interspecific comparison of foraging range and nest density of four bumblebee (Bombus) species. Molecular Ecology, 2005, 14, 1811-1820.	3.9	304
5	Bees and the Pollination of Crops and Wild Flowers in the European Community. Bee World, 1991, 72, 47-59.	0.8	293
6	Ontogeny of orientation flight in the honeybee revealed by harmonic radar. Nature, 2000, 403, 537-540.	27.8	289
7	Tracking bees with harmonic radar. Nature, 1996, 379, 29-30.	27.8	260
8	Quantifying and comparing bumblebee nest densities in gardens and countryside habitats. Journal of Applied Ecology, 2008, 45, 784-792.	4.0	219
9	<scp>BEEHAVE</scp>: a systems model of honeybee colony dynamics and foraging to explore multifactorial causes of colony failure. Journal of Applied Ecology, 2014, 51, 470-482.	4.0	219
10	Effects of land use at a landscape scale on bumblebee nest density and survival. Journal of Applied Ecology, 2010, 47, 1207-1215.	4.0	169
11	Honeybees perform optimal scale-free searching flights when attempting to locate a food source. Journal of Experimental Biology, 2007, 210, 3763-3770.	1.7	167
12	Flight metabolic rate andPgigenotype influence butterfly dispersal rate in the field. Ecology, 2009, 90, 2223-2232.	3.2	159
13	REVIEW: Towards a systems approach for understanding honeybee decline: a stocktaking and synthesis of existing models. Journal of Applied Ecology, 2013, 50, 868-880.	4.0	154
14	Meta-analysis reveals that pollinator functional diversity and abundance enhance crop pollination and yield. Nature Communications, 2019, 10, 1481.	12.8	150
15	Estimation of bumblebee queen dispersal distances using sibship reconstruction method. Molecular Ecology, 2010, 19, 819-831.	3.9	142
16	An economic model of the limits to foraging range in central place foragers with numerical solutions for bumblebees. Ecological Entomology, 2000, 25, 249-255.	2.2	134
17	Bumble bee species' responses to a targeted conservation measure depend on landscape context and habitat quality. , 2011, 21, 1760-1771.		129
18	Drought reduces floral resources for pollinators. Global Change Biology, 2018, 24, 3226-3235.	9.5	129

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19	Tracking butterfly flight paths across the landscape with harmonic radar. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 785-790.	2.6	122
20	Landscape context not patch size determines bumble-bee density on flower mixtures sown for agri-environment schemes. Biology Letters, 2007, 3, 638-641.	2.3	121
21	Protecting an Ecosystem Service. Advances in Ecological Research, 2016, 54, 135-206.	2.7	115
22	Tracking butterfly movements with harmonic radar reveals an effect of population age on movement distance. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19090-19095.	7.1	114
23	So Near and Yet So Far: Harmonic Radar Reveals Reduced Homing Ability of Nosema Infected Honeybees. PLoS ONE, 2014, 9, e103989.	2.5	108
24	Compensation for wind drift by bumble-bees. Nature, 1999, 400, 126-126.	27.8	95
25	Bumblebee nest density and the scale of available forage in arable landscapes. Insect Conservation and Diversity, 2009, 2, 116-124.	3.0	86
26	The effect of patch size and separation on bumblebee foraging in oilseed rape: implications for gene flow. Journal of Applied Ecology, 2004, 41, 539-546.	4.0	85
27	Assessing the value of Rural Stewardship schemes for providing foraging resources and nesting habitat for bumblebee queens (Hymenoptera: Apidae). Biological Conservation, 2009, 142, 2023-2032.	4.1	84
28	Effects on weed and invertebrate abundance and diversity of herbicide management in genetically modified herbicide-tolerant winter-sown oilseed rape. Proceedings of the Royal Society B: Biological Sciences, 2005, 272, 463-474.	2.6	82
29	Using citizen science to monitor Bombus populations in the UK: nesting ecology and relative abundance in the urban environment. Journal of Insect Conservation, 2012, 16, 697-707.	1.4	79
30	Bees, Pollination and Habitat Change in the European Community. Bee World, 1991, 72, 99-116.	0.8	76
31	A Strong Immune Response in Young Adult Honeybees Masks Their Increased Susceptibility to Infection Compared to Older Bees. PLoS Pathogens, 2012, 8, e1003083.	4.7	70
32	A model of pollinator-mediated gene flow between plant populations with numerical solutions for bumblebees pollinating oilseed rape. Oikos, 2002, 98, 375-384.	2.7	69
33	The effects of non-host plant essential oil volatiles on the behaviour of the pollen beetle Meligethes aeneus. Entomologia Experimentalis Et Applicata, 2005, 114, 181-188.	1.4	69
34	The Ontogeny of Bumblebee Flight Trajectories: From NaÃ¨ve Explorers to Experienced Foragers. PLoS ONE, 2013, 8, e78681.	2.5	68
35	Ecosystem service provision by road verges. Journal of Applied Ecology, 2020, 57, 488-501.	4.0	65
36	Bumbleâ€<scp>BEEHAVE</scp>: A systems model for exploring multifactorial causes of bumblebee decline at individual, colony, population and community level. Journal of Applied Ecology, 2018, 55, 2790-2801.	4.0	63

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37	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.	3.0	61
38	Effects of an agri-environment scheme on bumblebee reproduction at local and landscape scales. Basic and Applied Ecology, 2015, 16, 519-530.	2.7	61
39	Site constancy of bumble bees in an experimentally patchy habitat. Agriculture, Ecosystems and Environment, 2001, 83, 129-141.	5.3	58
40	Multiple stressors: using the honeybee model BEEHAVE to explore how spatial and temporal forage stress affects colony resilience. Oikos, 2016, 125, 1001-1016.	2.7	57
41	Pollination biology of fruit-bearing hedgerow plants and the role of flower-visiting insects in fruit-set. Annals of Botany, 2009, 104, 1397-1404.	2.9	53
42	Bumblebees and pesticides. Nature, 2012, 491, 43-45.	27.8	53
43	Quantifying the food requirements and effects of food stress on bumble bee colony development. Journal of Apicultural Research, 2017, 56, 288-299.	1.5	53
44	Road verges support pollinators in agricultural landscapes, but are diminished by heavy traffic and summer cutting. Journal of Applied Ecology, 2019, 56, 2316-2327.	4.0	53
45	Enhancing road verges to aid pollinator conservation: A review. Biological Conservation, 2020, 250, 108687.	4.1	53
46	Searching for nests of the invasive Asian hornet (Vespa velutina) using radio-telemetry. Communications Biology, 2018, 1, 88.	4.4	51
47	Beekeeping, Wild Bees and Pollination in the European Community. Bee World, 1991, 72, 170-180.	0.8	49
48	Honeybees use a LÃ©vy flight search strategy and odour-mediated anemotaxis to relocate food sources. Behavioral Ecology and Sociobiology, 2009, 64, 115-123.	1.4	48
49	BEESCOUT: A model of bee scouting behaviour and a software tool for characterizing nectar/pollen landscapes for BEEHAVE. Ecological Modelling, 2016, 340, 126-133.	2.5	48
50	Pollinator effectiveness and fruit set in common ivy, Hedera helix (Araliaceae). Arthropod-Plant Interactions, 2010, 4, 19-28.	1.1	46
51	Two Bee-Pollinated Plant Species Show Higher Seed Production when Grown in Gardens Compared to Arable Farmland. PLoS ONE, 2010, 5, e11753.	2.5	46
52	Impacts of the Use of Nonnative Commercial Bumble Bees for Pollinator Supplementation in Raspberry. Journal of Economic Entomology, 2011, 104, 107-114.	1.8	44
53	Flight performance of actively foraging honey bees is reduced by a common pathogen. Environmental Microbiology Reports, 2016, 8, 728-737.	2.4	44
54	Oilseed rape (Brassica napus) as a resource for farmland insect pollinators: quantifying floral traits in conventional varieties and breeding systems. GCB Bioenergy, 2017, 9, 1370-1379.	5.6	42

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55	Predictive systems models can help elucidate bee declines driven by multiple combined stressors. Apidologie, 2017, 48, 328-339.	2.0	40
56	Predicting Honeybee Colony Failure: Using the BEEHAVE Model to Simulate Colony Responses to Pesticides. Environmental Science & Technology, 2015, 49, 12879-12887.	10.0	38
57	Monitoring Neonicotinoid Exposure for Bees in Rural and Peri-urban Areas of the U.K. during the Transition from Pre- to Post-moratorium. Environmental Science & Technology, 2018, 52, 9391-9402.	10.0	34
58	Reâ€evaluating strategies for pollinatorâ€dependent crops: How useful is parthenocarpy?. Journal of Applied Ecology, 2017, 54, 1171-1179.	4.0	33
59	Nectar and flower production in Vicia faba L. (field bean) at ambient and elevated carbon dioxide. Apidologie, 1997, 28, 43-55.	2.0	32
60	Mass-flowering crops have a greater impact than semi-natural habitat on crop pollinators and pollen deposition. Landscape Ecology, 2020, 35, 513-527.	4.2	29
61	Socioâ€psychological factors, beyond knowledge, predict peopleâ€™s engagement in pollinator conservation. People and Nature, 2021, 3, 204-220.	3.7	28
62	Impacts of multiple pollutants on pollinator activity in road verges. Journal of Applied Ecology, 2021, 58, 1017-1029.	4.0	25
63	Shared traits make flies and bees effective pollinators of oilseed rape (Brassica napus L.). Basic and Applied Ecology, 2018, 32, 66-76.	2.7	24
64	Optimal search patterns in honeybee orientation flights are robust against emerging infectious diseases. Scientific Reports, 2016, 6, 32612.	3.3	23
65	Spatial extent of road pollution: A national analysis. Science of the Total Environment, 2021, 773, 145589.	8.0	22
66	<scp>CropPol</scp>: A dynamic, open and global database on crop pollination. Ecology, 2022, 103, e3614.	3.2	19
67	Electrophysiological and behavioural responses of the pollen beetle, Meligethes aeneus, to volatiles from a non-host plant, lavender, Lavandula angustifolia (Lamiaceae). Arthropod-Plant Interactions, 2008, 2, 109-115.	1.1	17
68	Feeding responses of carabid beetles to dimethoate-contaminated prey. Agricultural and Forest Entomology, 2004, 6, 99-104.	1.3	15
69	Modeling Effects of Honeybee Behaviors on the Distribution of Pesticide in Nectar within a Hive and Resultant in-Hive Exposure. Environmental Science & Technology, 2017, 51, 6908-6917.	10.0	15
70	Pollinator visitation to mass-flowering courgette and co-flowering wild flowers: Implications for pollination and bee conservation on farms. Basic and Applied Ecology, 2019, 34, 85-94.	2.7	14
71	Effects of nonâ€host plant odour on <scp>M</scp>eligethes aeneus during immigration to oilseed rape. Entomologia Experimentalis Et Applicata, 2013, 146, 313-320.	1.4	13
72	Bombus terrestris in a massâ€flowering pollinatorâ€dependent crop: A mutualistic relationship?. Ecology and Evolution, 2019, 9, 609-618.	1.9	13

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73	Honey bee colony performance affected by crop diversity and farmland structure: a modeling framework. Ecological Applications, 2021, 31, e02216.	3.8	10
74	Tracking bees with radar. Bee World, 1999, 80, 124-131.	0.8	7
75	Prediction of Pollen-Mediated Gene Flow Between Fields of Red Clover (Trifolium pratense). Environmental Modeling and Assessment, 2008, 13, 483-490.	2.2	7
76	Courgette Production: Pollination Demand, Supply, and Value. Journal of Economic Entomology, 2017, 110, 1973-1979.	1.8	7
77	Borage. Bee World, 1999, 80, 33-36.	0.8	6
78	Development and validation of gas chromatography and realâ€time quantitative PCR for the quantification of landscapeâ€scale gene flow from varieties of high erucic acid (HEAR) oilseed rape. Journal of the Science of Food and Agriculture, 2008, 88, 2253-2264.	3.5	5
79	BEEâ€STEWARD: A research and decisionâ€support software for effective land management to promote bumblebee populations. Methods in Ecology and Evolution, 2021, 12, 1809-1815.	5.2	5
80	Road verge extent and habitat composition across Great Britain. Landscape and Urban Planning, 2021, 214, 104159.	7.5	5
81	Testing the efficacy of a thermal camera as a search tool for locating wild bumble bee nests. Journal of Apicultural Research, 2019, 58, 494-500.	1.5	3
82	Quantifying the relative predation pressure on bumblebee nests by the European badger (<i>Meles) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.9	3
83	How can academic research on UK agri-environment schemes pivot to meet the addition of climate mitigation aims?. Land Use Policy, 2021, 106, 105441.	5.6	3
84	Motivations underpinning honeybee management practices: A Q methodology study with UK beekeepers. Ambio, 2022, 51, 2155-2168.	5.5	3
85	Insights into the impacts of rural honey hunting in Zambia. African Journal of Ecology, 2019, 57, 610-614.	0.9	2
86	Science round-up. Bee World, 1996, 77, 57-63.	0.8	0
87	ICPBR news. Bee World, 2005, 86, 21-21.	0.8	0