

Rachael Winfree

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.

124
papers

15,105
citations

52
h-index

122
g-index

152
ext. papers

18,141
ext. citations

7.4
avg, IF

6.82
L-index

#	Paper	IF	Citations
124	How many flowering plants are pollinated by animals?. <i>Oikos</i> , 2011 , 120, 321-326	4	1556
123	Wild pollinators enhance fruit set of crops regardless of honey bee abundance. <i>Science</i> , 2013 , 339, 1608-1613	33.3	1309
122	Bee foraging ranges and their relationship to body size. <i>Oecologia</i> , 2007 , 153, 589-96	2.9	947
121	Pollination and other ecosystem services produced by mobile organisms: a conceptual framework for the effects of land-use change. <i>Ecology Letters</i> , 2007 , 10, 299-314	10	896
120	A global quantitative synthesis of local and landscape effects on wild bee pollinators in agroecosystems. <i>Ecology Letters</i> , 2013 , 16, 584-99	10	625
119	A meta-analysis of bees' responses to anthropogenic disturbance. <i>Ecology</i> , 2009 , 90, 2068-76	4.6	605
118	Stability of pollination services decreases with isolation from natural areas despite honey bee visits. <i>Ecology Letters</i> , 2011 , 14, 1062-72	10	537
117	Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. <i>Nature Communications</i> , 2015 , 6, 7414	17.4	476
116	Non-bee insects are important contributors to global crop pollination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 146-51	11.5	402
115	Abundance of common species, not species richness, drives delivery of a real-world ecosystem service. <i>Ecology Letters</i> , 2015 , 18, 626-35	10	336
114	Native bees provide insurance against ongoing honey bee losses. <i>Ecology Letters</i> , 2007 , 10, 1105-13	10	330
113	Historical changes in northeastern US bee pollinators related to shared ecological traits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4656-60	11.5	321
112	Native Pollinators in Anthropogenic Habitats. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2011 , 42, 1-22	13.5	320
111	Climate-associated phenological advances in bee pollinators and bee-pollinated plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20645-9	11.5	297
110	Effect of human disturbance on bee communities in a forested ecosystem. <i>Conservation Biology</i> , 2007 , 21, 213-23	6	286
109	Wild bee pollinators provide the majority of crop visitation across land-use gradients in New Jersey and Pennsylvania, USA. <i>Journal of Applied Ecology</i> , 2007 , 45, 793-802	5.8	268
108	From research to action: enhancing crop yield through wild pollinators. <i>Frontiers in Ecology and the Environment</i> , 2014 , 12, 439-447	5.5	267

107	Dynamical resonance can account for seasonality of influenza epidemics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16915-6	11.5	260
106	Modelling pollination services across agricultural landscapes. <i>Annals of Botany</i> , 2009 , 103, 1589-600	4.1	248
105	Robust estimation of microbial diversity in theory and in practice. <i>ISME Journal</i> , 2013 , 7, 1092-101	11.9	231
104	Reconnecting plants and pollinators: challenges in the restoration of pollination mutualisms. <i>Trends in Plant Science</i> , 2011 , 16, 4-12	13.1	223
103	Mortality due to influenza in the United States--an annualized regression approach using multiple-cause mortality data. <i>American Journal of Epidemiology</i> , 2006 , 163, 181-7	3.8	207
102	Backwards bifurcations and catastrophe in simple models of fatal diseases. <i>Journal of Mathematical Biology</i> , 1998 , 36, 227-48	2	206
101	The conservation and restoration of wild bees. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1195, 169-97	6.5	179
100	Are ecosystem services stabilized by differences among species? A test using crop pollination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009 , 276, 229-37	4.4	176
99	A global synthesis of the effects of diversified farming systems on arthropod diversity within fields and across agricultural landscapes. <i>Global Change Biology</i> , 2017 , 23, 4946-4957	11.4	170
98	SCALING FROM TREES TO FORESTS: TRACTABLE MACROSCOPIC EQUATIONS FOR FOREST DYNAMICS. <i>Ecological Monographs</i> , 2008 , 78, 523-545	9	163
97	Species turnover promotes the importance of bee diversity for crop pollination at regional scales. <i>Science</i> , 2018 , 359, 791-793	33.3	147
96	Variation in gut microbial communities and its association with pathogen infection in wild bumble bees (<i>Bombus</i>). <i>ISME Journal</i> , 2014 , 8, 2369-79	11.9	146
95	Biodiversity ensures plant-pollinator phenological synchrony against climate change. <i>Ecology Letters</i> , 2013 , 16, 1331-8	10	138
94	Valuing pollination services to agriculture. <i>Ecological Economics</i> , 2011 , 71, 80-88	5.6	138
93	Modeling shield immunity to reduce COVID-19 epidemic spread. <i>Nature Medicine</i> , 2020 , 26, 849-854	50.5	135
92	Complementary habitat use by wild bees in agro-natural landscapes 2012 , 22, 1535-46		132
91	Urban drivers of plant-pollinator interactions. <i>Functional Ecology</i> , 2015 , 29, 879-888	5.6	122
90	Pollinator body size mediates the scale at which land use drives crop pollination services. <i>Journal of Applied Ecology</i> , 2014 , 51, 440-449	5.8	96

89	Native bees buffer the negative impact of climate warming on honey bee pollination of watermelon crops. <i>Global Change Biology</i> , 2013 , 19, 3103-10	11.4	95
88	MARINE RESERVE DESIGN AND THE EVOLUTION OF SIZE AT MATURATION IN HARVESTED FISH 2005 , 15, 882-901		94
87	Bees in disturbed habitats use, but do not prefer, alien plants. <i>Basic and Applied Ecology</i> , 2011 , 12, 332-341	3.1	83
86	Testing simple indices of habitat proximity. <i>American Naturalist</i> , 2005 , 165, 707-17	3.7	82
85	The time scale of asymptomatic transmission affects estimates of epidemic potential in the COVID-19 outbreak. <i>Epidemics</i> , 2020 , 31, 100392	5.1	82
84	Modeling post-death transmission of Ebola: challenges for inference and opportunities for control. <i>Scientific Reports</i> , 2015 , 5, 8751	4.9	75
83	Cuckoos, cowbirds and the persistence of brood parasitism. <i>Trends in Ecology and Evolution</i> , 1999 , 14, 338-343	10.9	75
82	Alternative stable states in host-phage dynamics. <i>Theoretical Ecology</i> , 2008 , 1, 13-19	1.6	72
81	Reconciling early-outbreak estimates of the basic reproductive number and its uncertainty: framework and applications to the novel coronavirus (SARS-CoV-2) outbreak. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200144	4.1	71
80	Response diversity to land use occurs but does not consistently stabilise ecosystem services provided by native pollinators. <i>Ecology Letters</i> , 2013 , 16, 903-11	10	66
79	Forest bees are replaced in agricultural and urban landscapes by native species with different phenologies and life-history traits. <i>Global Change Biology</i> , 2018 , 24, 287-296	11.4	63
78	Local habitat characteristics but not landscape urbanization drive pollinator visitation and native plant pollination in forest remnants. <i>Biological Conservation</i> , 2013 , 160, 10-18	6.2	61
77	Vaccinating to protect a vulnerable subpopulation. <i>PLoS Medicine</i> , 2007 , 4, e174	11.6	61
76	I can see clearly now: Reinterpreting statistical significance. <i>Methods in Ecology and Evolution</i> , 2019 , 10, 756-759	7.7	60
75	Reassessment of HIV-1 acute phase infectivity: accounting for heterogeneity and study design with simulated cohorts. <i>PLoS Medicine</i> , 2015 , 12, e1001801	11.6	60
74	Causes of variation in wild bee responses to anthropogenic drivers. <i>Current Opinion in Insect Science</i> , 2015 , 10, 104-109	5.1	59
73	The Allometry of Bee Proboscis Length and Its Uses in Ecology. <i>PLoS ONE</i> , 2016 , 11, e0151482	3.7	55
72	Statistical power and validity of Ebola vaccine trials in Sierra Leone: a simulation study of trial design and analysis. <i>Lancet Infectious Diseases</i> , 2015 , 15, 703-10	25.5	49

71	Awareness-driven behavior changes can shift the shape of epidemics away from peaks and toward plateaus, shoulders, and oscillations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 32764-32771	11.5	49
70	Lysis, lysogeny and virus-microbe ratios. <i>Nature</i> , 2017 , 549, E1-E3	50.4	44
69	Lack of pollinators limits fruit production in commercial blueberry (<i>Vaccinium corymbosum</i>). <i>Environmental Entomology</i> , 2014 , 43, 1574-83	2.1	44
68	Intrinsic and realized generation intervals in infectious-disease transmission. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20152026	4.4	41
67	On the inconsistency of pollinator species traits for predicting either response to land-use change or functional contribution. <i>Oikos</i> , 2018 , 127, 306-315	4	41
66	A conceptual guide to measuring species diversity. <i>Oikos</i> , 2021 , 130, 321-338	4	40
65	Species abundance, not diet breadth, drives the persistence of the most linked pollinators as plant-pollinator networks disassemble. <i>American Naturalist</i> , 2014 , 183, 600-11	3.7	38
64	Pollinator-dependent crops: an increasingly risky business. <i>Current Biology</i> , 2008 , 18, R968-9	6.3	36
63	Wild bee community change over a 26-year chronosequence of restored tallgrass prairie. <i>Restoration Ecology</i> , 2017 , 25, 650-660	3.1	35
62	A practical generation-interval-based approach to inferring the strength of epidemics from their speed. <i>Epidemics</i> , 2019 , 27, 12-18	5.1	35
61	Global change, biodiversity, and ecosystem services: What can we learn from studies of pollination?. <i>Basic and Applied Ecology</i> , 2013 , 14, 453-460	3.2	33
60	Mechanistic modelling of the three waves of the 1918 influenza pandemic. <i>Theoretical Ecology</i> , 2011 , 4, 283-288	1.6	33
59	Reproductive status influences group size and persistence of bonds in male plains zebra (<i>Equus burchelli</i>). <i>Behavioral Ecology and Sociobiology</i> , 2009 , 63, 1035-1043	2.5	26
58	A double-edged sword: does highly active antiretroviral therapy contribute to syphilis incidence by impairing immunity to ?. <i>Sexually Transmitted Infections</i> , 2017 , 93, 374-378	2.8	25
57	Seeing through the static: the temporal dimension of plant-animal mutualistic interactions. <i>Ecology Letters</i> , 2021 , 24, 149-161	10	24
56	Male and female bees show large differences in floral preference. <i>PLoS ONE</i> , 2019 , 14, e0214909	3.7	23
55	Anthropogenic landscapes support fewer rare bee species. <i>Landscape Ecology</i> , 2019 , 34, 967-978	4.3	22
54	Forward-looking serial intervals correctly link epidemic growth to reproduction numbers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	21

53	The relative importance of pollinator abundance and species richness for the temporal variance of pollination services. <i>Ecology</i> , 2017 , 98, 1807-1816	4.6	20
52	Fitting mechanistic epidemic models to data: A comparison of simple Markov chain Monte Carlo approaches. <i>Statistical Methods in Medical Research</i> , 2018 , 27, 1956-1967	2.3	19
51	Measuring partner choice in plant-pollinator networks: using null models to separate rewiring and fidelity from chance. <i>Ecology</i> , 2016 , 97, 2925-2931	4.6	18
50	The time scale of asymptomatic transmission affects estimates of epidemic potential in the COVID-19 outbreak 2020 ,		18
49	Patterns of influenza vaccination coverage in the United States from 2009 to 2015. <i>International Journal of Infectious Diseases</i> , 2017 , 65, 122-127	10.5	16
48	Evidence that promotion of male circumcision did not lead to sexual risk compensation in prioritized Sub-Saharan countries. <i>PLoS ONE</i> , 2017 , 12, e0175928	3.7	16
47	Inferring generation-interval distributions from contact-tracing data. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20190719	4.1	16
46	Specialist foragers in forest bee communities are small, social or emerge early. <i>Journal of Animal Ecology</i> , 2019 , 88, 1158-1167	4.7	13
45	Partner age differences and associated sexual risk behaviours among adolescent girls and young women in a cash transfer programme for schooling in Malawi. <i>BMC Public Health</i> , 2018 , 18, 403	4.1	13
44	Kaiso is highly expressed in TNBC tissues of women of African ancestry compared to Caucasian women. <i>Cancer Causes and Control</i> , 2017 , 28, 1295-1304	2.8	13
43	Pollinator declines: reconciling scales and implications for ecosystem services. <i>F1000Research</i> , 2013 , 2, 146	3.6	13
42	Speciation over the edge: gene flow among non-human primate species across a formidable biogeographic barrier. <i>Royal Society Open Science</i> , 2017 , 4, 170351	3.3	12
41	The Circe principle: are pollinators waylaid by attractive habitats?. <i>Current Biology</i> , 2011 , 21, R652-4	6.3	12
40	Phylogenetic homogenization of bee communities across ecoregions. <i>Global Ecology and Biogeography</i> , 2018 , 27, 1457-1466	6.1	12
39	Wild insect diversity increases inter-annual stability in global crop pollinator communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20210212	4.4	11
38	Modeling the effect of HIV coinfection on clearance and sustained virologic response during treatment for hepatitis C virus. <i>Epidemics</i> , 2015 , 12, 1-10	5.1	9
37	Species loss drives ecosystem function in experiments, but in nature the importance of species loss depends on dominance. <i>Global Ecology and Biogeography</i> , 2020 , 29, 1531-1541	6.1	9
36	The Hayflick Limit May Determine the Effective Clonal Diversity of Naive T Cells. <i>Journal of Immunology</i> , 2016 , 196, 4999-5004	5.3	9

35	Speed and strength of an epidemic intervention. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021 , 288, 20201556	4.4	7
34	Stochastic simulation of multiscale complex systems with PISKaS: A rule-based approach. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 498, 342-351	3.4	7
33	The Role of Floral Density in Determining Bee Foraging Behavior: A Natural Experiment. <i>Natural Areas Journal</i> , 2016 , 36, 392-399	0.8	6
32	The risk of incomplete personal protection coverage in vector-borne disease. <i>Journal of the Royal Society Interface</i> , 2016 , 13, 20150666	4.1	6
31	HIV sexual transmission is predominantly driven by single individuals rather than discordant couples: a model-based approach. <i>PLoS ONE</i> , 2013 , 8, e82906	3.7	5
30	High offspring survival of the brown-headed cowbird in an invaded habitat. <i>Animal Conservation</i> , 2004 , 7, 445-453	3.2	5
29	How much do rare and crop-pollinating bees overlap in identity and flower preferences?. <i>Journal of Applied Ecology</i> , 2020 , 57, 413-423	5.8	5
28	Age-dependence of healthcare interventions for COVID-19 in Ontario, Canada. <i>BMC Public Health</i> , 2021 , 21, 706	4.1	5
27	Evaluating Ebola vaccine trials: insights from simulation. <i>Lancet Infectious Diseases</i> , 2015 , 15, 1134	25.5	4
26	Building resilience into agricultural pollination using wild pollinators 2019 , 109-134		3
25	Out-of-Pocket Expenditures, Indirect Costs and Health-Related Quality of Life of Patients with Pulmonary Tuberculosis in Thailand. <i>PharmacoEconomics - Open</i> , 2018 , 2, 281-296	2.1	3
24	Human ectoparasite transmission of the plague during the Second Pandemic is only weakly supported by proposed mathematical models. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E7892-E7893	11.5	3
23	Assessing influenza-related mortality: comment on Zucs et al. <i>Emerging Themes in Epidemiology</i> , 2005 , 2, 7	3.9	3
22	Traditional Male Circumcision is Associated with Sexual Risk Behaviors in Sub-Saharan Countries Prioritized for Male Circumcision. <i>AIDS and Behavior</i> , 2020 , 24, 951-959	4.3	3
21	Transmission dynamics are crucial to COVID-19 vaccination policy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
20	Forest-associated bee species persist amid forest loss and regrowth in eastern North America. <i>Biological Conservation</i> , 2021 , 260, 109202	6.2	3
19	Patterns of seasonal and pandemic influenza-associated health care and mortality in Ontario, Canada. <i>BMC Public Health</i> , 2019 , 19, 1237	4.1	2
18	Healthcare Resource Uses and Out-of-Pocket Expenses Associated with Pulmonary TB Treatment in Thailand. <i>PharmacoEconomics - Open</i> , 2018 , 2, 297-308	2.1	2

17	The contribution of plant spatial arrangement to bumble bee flower constancy.. <i>Oecologia</i> , 2022 , 198, 471	2.9	2
16	CropPol: a dynamic, open and global database on crop pollination.. <i>Ecology</i> , 2021 , e3614	4.6	2
15	From science to politics: COVID-19 information fatigue on YouTube.. <i>BMC Public Health</i> , 2022 , 22, 816	4.1	2
14	Identifying enterotype in human microbiome by decomposing probabilistic topics into components 2012 ,		1
13	Metapopulations, community assembly, and scale invariance in aspect space. <i>Theoretical Population Biology</i> , 2002 , 62, 329-38	1.2	1
12	On state-space reduction in multi-strain pathogen models, with an application to antigenic drift in influenza A. <i>PLoS Computational Biology</i> , 2005 , preprint, e159	5	1
11	Male and female bees show large differences in floral preference		1
10	Many bee species, including rare species, are important for function of entire plant-pollinator networks.. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022 , 289, 20212689	4.4	1
9	Couple serostatus patterns in sub-Saharan Africa illuminate the relative roles of transmission rates and sexual network characteristics in HIV epidemiology. <i>Scientific Reports</i> , 2018 , 8, 6675	4.9	
8	Art Winfree, artist of science. <i>Journal of Theoretical Biology</i> , 2004 , 230, 441-3	2.3	
7	Reply from R. Winfree. <i>Trends in Ecology and Evolution</i> , 2000 , 15, 26		10.9
6	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
5	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
4	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
3	Calibration of individual-based models to epidemiological data: A systematic review 2020 , 16, e1007893		
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