

# Sean A Rands

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5936772/publications.pdf>

Version: 2024-02-01

70  
papers

2,003  
citations

257450

24  
h-index

276875

41  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2028  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous emergence of leaders and followers in foraging pairs. <i>Nature</i> , 2003, 423, 432-434.	27.8	296
2	Obesity prevalence and associated risk factors in outdoor living domestic horses and ponies. <i>PeerJ</i> , 2014, 2, e299.	2.0	96
3	The effects of rainfall on plant-pollinator interactions. <i>Arthropod-Plant Interactions</i> , 2019, 13, 561-569.	1.1	96
4	The interaction of temperature and sucrose concentration on foraging preferences in bumblebees. <i>Die Naturwissenschaften</i> , 2008, 95, 845-850.	1.6	86
5	THE IMPACT OF PARASITE MANIPULATION AND PREDATOR FORAGING BEHAVIOR ON PREDATOR-PREY COMMUNITIES. <i>Ecology</i> , 2006, 87, 2832-2841.	3.2	85
6	The emergence of leaders and followers in foraging pairs when the qualities of individuals differ. <i>BMC Evolutionary Biology</i> , 2008, 8, 51.	3.2	69
7	Sexual selection and condition-dependence. <i>Journal of Evolutionary Biology</i> , 2009, 22, 2387-2394.	1.7	67
8	State-dependent foraging rules for social animals in selfish herds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 2613-2620.	2.6	63
9	Floral Temperature and Optimal Foraging: Is Heat a Feasible Floral Reward for Pollinators?. <i>PLoS ONE</i> , 2008, 3, e2007.	2.5	59
10	The diversity of floral temperature patterns, and their use by pollinators. <i>ELife</i> , 2017, 6, .	6.0	58
11	Consensus and experience trump leadership, suppressing individual personality during social foraging. <i>Science Advances</i> , 2016, 2, e1600892.	10.3	53
12	Bumblebees distinguish floral scent patterns, and can transfer these to corresponding visual patterns. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20180661.	2.6	51
13	Social foraging and dominance relationships: the effects of socially mediated interference. <i>Behavioral Ecology and Sociobiology</i> , 2006, 60, 572-581.	1.4	50
14	Field Margins, Foraging Distances and Their Impacts on Nesting Pollinator Success. <i>PLoS ONE</i> , 2011, 6, e25971.	2.5	48
15	Colour as a backup for scent in the presence of olfactory noise: testing the efficacy backup hypothesis using bumblebees ( <i>Bombus terrestris</i> ). <i>Royal Society Open Science</i> , 2017, 4, 170996.	2.4	46
16	Flower Iridescence Increases Object Detection in the Insect Visual System without Compromising Object Identity. <i>Current Biology</i> , 2016, 26, 802-808.	3.9	43
17	Reporting of thermography parameters in biology: a systematic review of thermal imaging literature. <i>Royal Society Open Science</i> , 2018, 5, 181281.	2.4	37
18	Effects of pollinator density-dependent preferences on field margin visitations in the midst of agricultural monocultures: A modelling approach. <i>Ecological Modelling</i> , 2010, 221, 1310-1316.	2.5	35

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19	Separating the effects of predation risk and interrupted foraging upon mass changes in the blue tit <i>Parus caeruleus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1783-1790.	2.6	32
20	Floral epidermal structure and flower orientation: getting to grips with awkward flowers. <i>Arthropod-Plant Interactions</i> , 2011, 5, 279-285.	1.1	32
21	Dominance rank is associated with body condition in outdoor-living domestic horses ( <i>Equus</i> ) <a href="#">Tj ETQq1 1 0.784314.rgBT /Overlock 10</a>	1.9	32
22	Bumblebees can discriminate between scent-marks deposited by conspecifics. <i>Scientific Reports</i> , 2017, 7, 43872.	3.3	32
23	Optimal parasite infection strategies: a state-dependent approach. <i>International Journal for Parasitology</i> , 2004, 34, 813-821.	3.1	31
24	Neonicotinoids disrupt memory, circadian behaviour and sleep. <i>Scientific Reports</i> , 2021, 11, 2061.	3.3	30
25	Assessing the seasonal prevalence and risk factors for nuchal crest adiposity in domestic horses and ponies using the Cresty Neck Score. <i>BMC Veterinary Research</i> , 2015, 11, 13.	1.9	29
26	Nectar discovery speeds and multimodal displays: assessing nectar search times in bees with radiating and non-radiating guides. <i>Evolutionary Ecology</i> , 2017, 31, 899-912.	1.2	24
27	The Neonicotinoid Insecticide Imidacloprid Disrupts Bumblebee Foraging Rhythms and Sleep. <i>IScience</i> , 2020, 23, 101827.	4.1	24
28	Prey Processing in Central Place Foragers. <i>Journal of Theoretical Biology</i> , 2000, 202, 161-174.	1.7	20
29	The influence of pigmentation patterning on bumblebee foraging from flowers of <i>Antirrhinum majus</i> . <i>Die Naturwissenschaften</i> , 2013, 100, 249-256.	1.6	20
30	Floral Humidity in Flowering Plants: A Preliminary Survey. <i>Frontiers in Plant Science</i> , 2020, 11, 249.	3.6	19
31	Red deer synchronise their activity with close neighbours. <i>PeerJ</i> , 2014, 2, e344.	2.0	18
32	Cross-modal transfer in visual and nonvisual cues in bumblebees. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2019, 205, 427-437.	1.6	16
33	Floral temperature patterns can function as floral guides. <i>Arthropod-Plant Interactions</i> , 2020, 14, 193-206.	1.1	16
34	Bumblebees can detect floral humidity. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	16
35	Self-Improvement for Team-Players: The Effects of Individual Effort on Aggregated Group Information. <i>PLoS ONE</i> , 2010, 5, e11705.	2.5	16
36	The Effects of Dominance on Leadership and Energetic Gain: A Dynamic Game between Pairs of Social Foragers. <i>PLoS Computational Biology</i> , 2011, 7, e1002252.	3.2	15

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37	The Power of <i>Drosophila melanogaster</i> for Modeling Neonicotinoid Effects on Pollinators and Identifying Novel Mechanisms. <i>Frontiers in Physiology</i> , 2021, 12, 659440.	2.8	15
38	A Technique for Measuring Petal Gloss, with Examples from the Namaqualand Flora. <i>PLoS ONE</i> , 2012, 7, e29476.	2.5	15
39	Approximating Optimal Behavioural Strategies Down to Rules-of-Thumb: Energy Reserve Changes in Pairs of Social Foragers. <i>PLoS ONE</i> , 2011, 6, e22104.	2.5	13
40	Landscape fragmentation and pollinator movement within agricultural environments: a modelling framework for exploring foraging and movement ecology. <i>PeerJ</i> , 2014, 2, e269.	2.0	13
41	Black-headed gulls synchronise their activity with their nearest neighbours. <i>Scientific Reports</i> , 2018, 8, 9978.	3.3	12
42	Inclusion of policies on ethical standards in animal experiments in biomedical science journals. <i>Journal of the American Association for Laboratory Animal Science</i> , 2011, 50, 901-3.	1.2	12
43	Measurement of mass change in breeding birds: A bibliography and discussion of measurement techniques. <i>Ring and Migration</i> , 2006, 23, 1-5.	0.4	11
44	The Dynamics of Honesty: Modelling the Growth of Costly, Sexually-Selected Ornaments. <i>PLoS ONE</i> , 2011, 6, e27174.	2.5	11
45	Social structure, vigilance and behaviour of plains zebra ( <i>Equus burchellii</i> ): a 5-year case study of individuals living on a managed wildlife reserve. <i>Acta Theriologica</i> , 2012, 57, 111-120.	1.1	11
46	The evolution of floral guides: using a genetic algorithm to investigate the evolution of floral cue arrangements. <i>Biological Journal of the Linnean Society</i> , 2018, 123, 739-753.	1.6	11
47	Explaining individual variation in patterns of mass loss in breeding birds. <i>Theoretical Biology and Medical Modelling</i> , 2006, 3, 20.	2.1	9
48	Mobbing and sitting tight at the nest as methods of avoiding brood parasitism. <i>Interface Focus</i> , 2012, 2, 217-225.	3.0	9
49	Foraging efficiency, social status and body condition in group-living horses and ponies. <i>PeerJ</i> , 2020, 8, e10305.	2.0	9
50	Raspberry Pi nest cameras: An affordable tool for remote behavioral and conservation monitoring of bird nests. <i>Ecology and Evolution</i> , 2021, 11, 14585-14597.	1.9	9
51	Group-movement "initiation" and state-dependent decision-making. <i>Behavioural Processes</i> , 2010, 84, 668-670.	1.1	8
52	The role of petal transpiration in floral humidity generation. <i>Planta</i> , 2022, 255, 78.	3.2	8
53	Floral infrared emissivity estimates using simple tools. <i>Plant Methods</i> , 2021, 17, 23.	4.3	7
54	Statistical measures for defining an individual's degree of independence within state-dependent dynamic games. <i>BMC Evolutionary Biology</i> , 2006, 6, 81.	3.2	6

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55	Quantifying the costs and benefits of protective egg coating in a Chrysomelid beetle. <i>Ecological Entomology</i> , 2008, 33, 484-487.	2.2	6
56	Behavioural synchrony between fallow deer <i>Dama dama</i> is related to spatial proximity. <i>Bmc Ecology and Evolution</i> , 2021, 21, 79.	1.6	6
57	Nearest-neighbour clusters as a novel technique for assessing group associations. <i>Royal Society Open Science</i> , 2015, 2, 140232.	2.4	5
58	Flower sharing and pollinator health: a behavioural perspective. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20210157.	4.0	5
59	Ethical policies on animal experiments are not compromised by whether a journal is freely accessible or charges for publication. <i>Animal</i> , 2009, 3, 1591-1595.	3.3	4
60	Leaving safety to visit a feeding site: is it optimal to hesitate while exposed?. <i>Royal Society Open Science</i> , 2017, 4, 160910.	2.4	4
61	Phylogenetic signal in floral temperature patterns. <i>BMC Research Notes</i> , 2021, 14, 39.	1.4	4
62	We must consider dynamic changes in behavior in social networks and conduct manipulations: comment on Pinter-Wollman et al.. <i>Behavioral Ecology</i> , 2014, 25, 259-260.	2.2	3
63	Phylogenetically-controlled correlates of primate blinking behaviour. <i>PeerJ</i> , 2021, 9, e10950.	2.0	2
64	Using radio frequency identification and locomotor activity monitoring to assess sleep, locomotor, and foraging rhythmicity in bumblebees. <i>STAR Protocols</i> , 2021, 2, 100598.	1.2	2
65	Considering Adaptation and the "Function" of Traits in the Classroom, Using Wiki Tools. <i>Evolution: Education and Outreach</i> , 2010, 3, 633-640.	0.8	1
66	Using an Animal Group Vigilance Practical Session to give Learners a "Heads-up"™ to Problems in Experimental Design. <i>Bioscience Education</i> , 2011, 17, 1-6.	0.4	1
67	Unusual honey pot building behaviour in captive reared bumble bees <i>Bombus terrestris</i> . <i>Journal of Apicultural Research</i> , 2010, 49, 345-347.	1.5	0
68	State-dependent foraging rules for social animals in selfish herds. , 2011, , 523-537.		0
69	Using Physical and Computer Simulations of Collective Behaviour as an Introduction to Modelling Concepts for Applied Biologists. <i>Bioscience Education</i> , 2012, 19, 1-10.	0.4	0
70	A commentary on: "Divergence in floral scent and morphology, but not thermogenic traits, associated with pollinator shift in two brood-site-mimicking <i>Typhonium</i> (Araceae) species"™. <i>Annals of Botany</i> , 2021, 128, i-ii.	2.9	0