

Mathieu Lihoreau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3574929/publications.pdf>

Version: 2024-02-01

78
papers

2,766
citations

172457

29
h-index

206112

48
g-index

91
all docs

91
docs citations

91
times ranked

2818
citing authors

#	ARTICLE	IF	CITATIONS
1	Honey bees cannot sense harmful concentrations of metal pollutants in food. <i>Chemosphere</i> , 2022, 297, 134089.	8.2	9
2	Navigation by Honey Bees. , 2022, , 4565-4573.		0
3	Aggregation. , 2022, , 127-130.		0
4	Insect Diet. , 2022, , 3471-3479.		0
5	The gut parasite <i>Nosema ceranae</i> impairs olfactory learning in bumblebees. <i>Journal of Experimental Biology</i> , 2022, 225, .	1.7	6
6	Analysis of temporal patterns in animal movement networks. <i>Methods in Ecology and Evolution</i> , 2021, 12, 101-113.	5.2	21
7	Nutrition in Social Insects. , 2021, , 670-675.		0
8	Artificial Diets Modulate Infection Rates by <i>Nosema ceranae</i> in Bumblebees. <i>Microorganisms</i> , 2021, 9, 158.	3.6	12
9	Animal social networks: Towards an integrative framework embedding social interactions, space and time. <i>Methods in Ecology and Evolution</i> , 2021, 12, 4-9.	5.2	21
10	Editorial: Context-Dependent Plasticity in Social Species: Feedback Loops Between Individual and Social Environment. <i>Frontiers in Psychology</i> , 2021, 12, 645191.	2.1	6
11	Chronic exposure to trace lead impairs honey bee learning. <i>Ecotoxicology and Environmental Safety</i> , 2021, 212, 112008.	6.0	24
12	Metal pollutants have additive negative effects on honey bee cognition. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	30
13	A model of resource partitioning between foraging bees based on learning. <i>PLoS Computational Biology</i> , 2021, 17, e1009260.	3.2	10
14	Current permissible levels of metal pollutants harm terrestrial invertebrates. <i>Science of the Total Environment</i> , 2021, 779, 146398.	8.0	48
15	Poor adult nutrition impairs learning and memory in a parasitoid wasp. <i>Scientific Reports</i> , 2021, 11, 16220.	3.3	1
16	Bumble bees strategically use ground level linear features in navigation. <i>Animal Behaviour</i> , 2021, 179, 147-160.	1.9	17
17	A Non-Invasive Millimetre-Wave Radar Sensor for Automated Behavioural Tracking in Precision Farming Application to Sheep Husbandry. <i>Sensors</i> , 2021, 21, 8140.	3.8	3
18	Automated monitoring of bee behaviour using connected hives: Towards a computational apidology. <i>Apidologie</i> , 2020, 51, 356-368.	2.0	27

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19	Mechanisms of Nutritional Resource Exploitation by Insects. <i>Insects</i> , 2020, 11, 570.	2.2	7
20	Pesticide dosing must be guided by ecological principles. <i>Nature Ecology and Evolution</i> , 2020, 4, 1575-1577.	7.8	10
21	The miticide thymol in combination with trace levels of the neonicotinoid imidacloprid reduces visual learning performance in honey bees (<i>Apis mellifera</i>). <i>Apidologie</i> , 2020, 51, 499-509.	2.0	21
22	Open Data for Open Questions in Comparative Nutrition. <i>Insects</i> , 2020, 11, 236.	2.2	7
23	Nutrition in Social Insects. , 2020, , 1-5.		0
24	3D Trajectories of Multiple Untagged Flying Insects from Millimetre-wave Beamscanning Radar. , 2020, , .		3
25	Bumblebees learn foraging routes through exploitationâ€“exploration cycles. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190103.	3.4	25
26	The Central Complex as a Potential Substrate for Vector Based Navigation. <i>Frontiers in Psychology</i> , 2019, 10, 690.	2.1	48
27	Bumblebees adjust protein and lipid collection rules to the presence of brood. <i>Environmental Epigenetics</i> , 2019, 65, 437-446.	1.8	40
28	Honey bees increase their foraging performance and frequency of pollen trips through experience. <i>Scientific Reports</i> , 2019, 9, 6778.	3.3	51
29	A spatial network analysis of resource partitioning between bumblebees foraging on artificial flowers in a flight cage. <i>Movement Ecology</i> , 2019, 7, 4.	2.8	16
30	Putting the ecology back into insect cognition research. <i>Advances in Insect Physiology</i> , 2019, , 1-25.	2.7	15
31	Quantifying Nutritional Trade-Offs across Multidimensional Performance Landscapes. <i>American Naturalist</i> , 2019, 193, E168-E181.	2.1	17
32	Insect Diet. , 2019, , 1-9.		10
33	Aggregation. , 2019, , 1-4.		1
34	A theoretical exploration of dietary collective medication in social insects. <i>Journal of Insect Physiology</i> , 2018, 106, 78-87.	2.0	8
35	AUTOMATED MONITORING OF LIVESTOCK BEHAVIOR USING FREQUENCY-MODULATED CONTINUOUS-WAVE RADARS. <i>Progress in Electromagnetics Research M</i> , 2018, 69, 151-160.	0.9	6
36	Exploring Interactions between the Gut Microbiota and Social Behavior through Nutrition. <i>Genes</i> , 2018, 9, 534.	2.4	22

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37	Social nutrition: an emerging field in insect science. <i>Current Opinion in Insect Science</i> , 2018, 28, 73-80.	4.4	16
38	The repeatability of cognitive performance: a meta-analysis. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170281.	4.0	114
39	Why Bees Are So Vulnerable to Environmental Stressors. <i>Trends in Ecology and Evolution</i> , 2017, 32, 268-278.	8.7	177
40	Effects of parasites and pathogens on bee cognition. <i>Ecological Entomology</i> , 2017, 42, 51-64.	2.2	27
41	Analysing plant-pollinator interactions with spatial movement networks. <i>Ecological Entomology</i> , 2017, 42, 4-17.	2.2	21
42	Collective foraging in spatially complex nutritional environments. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160238.	4.0	41
43	Gut Microbiota Modifies Olfactory-Guided Microbial Preferences and Foraging Decisions in <i>Drosophila</i> . <i>Current Biology</i> , 2017, 27, 2397-2404.e4.	3.9	156
44	Inter-individual variability in the foraging behaviour of traplining bumblebees. <i>Scientific Reports</i> , 2017, 7, 4561.	3.3	43
45	Do Insects Have Emotions? Some Insights from Bumble Bees. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 157.	2.0	31
46	Subsocial Cockroaches <i>Nauphoeta cinerea</i> Mate Indiscriminately with Kin Despite High Costs of Inbreeding. <i>PLoS ONE</i> , 2016, 11, e0162548.	2.5	9
47	Social Network Analysis and Nutritional Behavior: An Integrated Modeling Approach. <i>Frontiers in Psychology</i> , 2016, 7, 18.	2.1	16
48	Commentary: Do Bees Play the Producer-Scrounger Game?. <i>Frontiers in Psychology</i> , 2016, 7, 1355.	2.1	0
49	Adaptive collective foraging in groups with conflicting nutritional needs. <i>Royal Society Open Science</i> , 2016, 3, 150638.	2.4	11
50	Signatures of a globally optimal searching strategy in the three-dimensional foraging flights of bumblebees. <i>Scientific Reports</i> , 2016, 6, 30401.	3.3	28
51	<i>Drosophila</i> females trade off good nutrition with high quality oviposition sites when choosing foods. <i>Journal of Experimental Biology</i> , 2016, 219, 2514-24.	1.7	58
52	Evidence of trapline foraging in honeybees. <i>Journal of Experimental Biology</i> , 2016, 219, 2426-2429.	1.7	39
53	Collective selection of food patches in <i>Drosophila</i> . <i>Journal of Experimental Biology</i> , 2016, 219, 668-675.	1.7	55
54	Monitoring Flower Visitation Networks and Interactions between Pairs of Bumble Bees in a Large Outdoor Flight Cage. <i>PLoS ONE</i> , 2016, 11, e0150844.	2.5	27

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55	Behavioral Microbiomics: A Multi-Dimensional Approach to Microbial Influence on Behavior. <i>Frontiers in Microbiology</i> , 2015, 6, 1359.	3.5	44
56	Recent Advances in the Integrative Nutrition of Arthropods. <i>Annual Review of Entomology</i> , 2015, 60, 293-311.	11.8	123
57	Nutritional ecology beyond the individual: a conceptual framework for integrating nutrition and social interactions. <i>Ecology Letters</i> , 2015, 18, 273-286.	6.4	92
58	Evolving Nutritional Strategies in the Presence of Competition: A Geometric Agent-Based Model. <i>PLoS Computational Biology</i> , 2015, 11, e1004111.	3.2	28
59	An Overlooked Consequence of Dietary Mixing: A Varied Diet Reduces Interindividual Variance in Fitness. <i>American Naturalist</i> , 2015, 186, 649-659.	2.1	38
60	Modelling nutrition across organizational levels: From individuals to superorganisms. <i>Journal of Insect Physiology</i> , 2014, 69, 2-11.	2.0	42
61	Unravelling the mechanisms of trapline foraging in bees. <i>Communicative and Integrative Biology</i> , 2013, 6, e22701.	1.4	30
62	A Simple Iterative Model Accurately Captures Complex Trapline Formation by Bumblebees Across Spatial Scales and Flower Arrangements. <i>PLoS Computational Biology</i> , 2013, 9, e1002938.	3.2	43
63	Bee positive: the importance of electroreception in pollinator cognitive ecology. <i>Frontiers in Psychology</i> , 2013, 4, 445.	2.1	2
64	An Exploration of the Social Brain Hypothesis in Insects. <i>Frontiers in Physiology</i> , 2012, 3, 442.	2.8	95
65	Radar Tracking and Motion-Sensitive Cameras on Flowers Reveal the Development of Pollinator Multi-Destination Routes over Large Spatial Scales. <i>PLoS Biology</i> , 2012, 10, e1001392.	5.6	127
66	Bees do not use nearest-neighbour rules for optimization of multi-location routes. <i>Biology Letters</i> , 2012, 8, 13-16.	2.3	54
67	Inbreeding and the evolution of sociality in arthropods. <i>Die Naturwissenschaften</i> , 2012, 99, 779-788.	1.6	25
68	Food, "Culture," and Sociality in <i>Drosophila</i> . <i>Frontiers in Psychology</i> , 2012, 3, 165.	2.1	2
69	Local Enhancement Promotes Cockroach Feeding Aggregations. <i>PLoS ONE</i> , 2011, 6, e22048.	2.5	17
70	Trade-off between travel distance and prioritization of high-reward sites in traplining bumblebees. <i>Functional Ecology</i> , 2011, 25, 1284-1292.	3.6	74
71	Collective foraging decision in a gregarious insect. <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 1577-1587.	1.4	42
72	German cockroach males maximize their inclusive fitness by avoiding mating with kin. <i>Animal Behaviour</i> , 2010, 80, 303-309.	1.9	19

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73	Travel Optimization by Foraging Bumblebees through Readjustments of Traplines after Discovery of New Feeding Locations. <i>American Naturalist</i> , 2010, 176, 744-757.	2.1	108
74	Kin recognition via cuticular hydrocarbons shapes cockroach social life. <i>Behavioral Ecology</i> , 2009, 20, 46-53.	2.2	85
75	The weight of the clan: Even in insects, social isolation can induce a behavioural syndrome. <i>Behavioural Processes</i> , 2009, 82, 81-84.	1.1	60
76	Tactile stimuli trigger group effects in cockroach aggregations. <i>Animal Behaviour</i> , 2008, 75, 1965-1972.	1.9	64
77	Mutual Mate Choice: When it Pays Both Sexes to Avoid Inbreeding. <i>PLoS ONE</i> , 2008, 3, e3365.	2.5	53
78	Kin recognition and incest avoidance in a group-living insect. <i>Behavioral Ecology</i> , 2007, 18, 880-887.	2.2	83