

Cyril Piou

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,519
citations

361413

20
h-index

189892

50
g-index

51
all docs

51
docs citations

51
times ranked

4250
citing authors

#	ARTICLE	IF	CITATIONS
1	Band movement and thermoregulation in <i>Schistocerca gregaria</i> . <i>Journal of Insect Physiology</i> , 2022, 136, 104328.	2.0	9
2	Allocation of more reproductive resource to egg size rather than clutch size of gregarious desert locust (<i>Schistocerca gregaria</i>) through increasing oogenesis period and oosorption rate. <i>Journal of Insect Physiology</i> , 2022, 136, 104331.	2.0	3
3	Seeing the locust in the swarm: accounting for spatiotemporal hierarchy improves ecological models of insect populations. <i>Ecography</i> , 2022, 2022, .	4.5	6
4	A Review of the Biology, Ecology, and Management of the South American Locust, <i>Schistocerca gregaria</i> (Serville, 1838), and Future Prospects. <i>Agronomy</i> , 2022, 12, 135.	3.0	11
5	An agent-based model to simulate the boosted Sterile Insect Technique for fruit fly management. <i>Ecological Modelling</i> , 2022, 468, 109951.	2.5	9
6	Keeping modelling notebooks with TRACE: Good for you and good for environmental research and management support. <i>Environmental Modelling and Software</i> , 2021, 136, 104932.	4.5	19
7	A general model of the thermal constraints on the world's most destructive locust, <i>Schistocerca gregaria</i> . <i>Ecological Applications</i> , 2021, 31, e02310.	3.8	14
8	Cooperative root graft networks benefit mangrove trees under stress. <i>Communications Biology</i> , 2021, 4, 513.	4.4	2
9	Importance of human capital, field knowledge and experience to improve pest locust management. <i>Pest Management Science</i> , 2021, 77, 5463-5474.	3.4	7
10	Additive genetic variance for traits least related to fitness increases with environmental stress in the desert locust, <i>Schistocerca gregaria</i> . <i>Ecology and Evolution</i> , 2021, 11, 13930-13947.	1.9	3
11	Density-dependent mating behaviors reduce male mating harassment in locusts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
12	The limitations of locust preventive management faced with spatial uncertainty: exploration with a multi-agent model. <i>Pest Management Science</i> , 2020, 76, 1094-1102.	3.4	17
13	The desert locust, <i>Schistocerca gregaria</i> , plastically manipulates egg size by regulating both egg numbers and production rate according to population density. <i>Journal of Insect Physiology</i> , 2020, 122, 104020.	2.0	16
14	On the relative role of climate change and management in the current desert locust outbreak in East Africa. <i>Global Change Biology</i> , 2020, 26, 3753-3755.	9.5	52
15	Cartographie des zones de reproduction et de régularisation du criquet pèlerin au Tchad. <i>Cahiers Agricultures</i> , 2020, 29, 14.	0.9	7
16	Mutual aid: When does resource scarcity favour group cooperation?. <i>Ecological Complexity</i> , 2019, 40, 100790.	2.9	3
17	Effects of starvation and Vegetation Distribution on Locust Collective Motion. <i>Journal of Insect Behavior</i> , 2019, 32, 207-217.	0.7	13
18	Soil moisture from remote sensing to forecast desert locust presence. <i>Journal of Applied Ecology</i> , 2019, 56, 966-975.	4.0	36

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19	Identifying Ant-Mirid Spatial Interactions to Improve Biological Control in Cacao-Based Agroforestry System. <i>Environmental Entomology</i> , 2018, 47, 551-558.	1.4	9
20	Improving preventive locust management: insights from a multi-agent model. <i>Pest Management Science</i> , 2018, 74, 46-58.	3.4	26
21	Two-compartment age-structured model of solitary and gregarious locust population dynamics. <i>Mathematical Methods in the Applied Sciences</i> , 2018, 41, 8636-8672.	2.3	7
22	SMOS based high resolution soil moisture estimates for desert locust preventive management. <i>Remote Sensing Applications: Society and Environment</i> , 2018, 11, 140-150.	1.5	22
23	Climate-driven geographic distribution of the desert locust during recession periods: Subspecies niche differentiation and relative risks under scenarios of climate change. <i>Global Change Biology</i> , 2017, 23, 4739-4749.	9.5	69
24	Mapping the spatiotemporal distributions of the Desert Locust in Mauritania and Morocco to improve preventive management. <i>Basic and Applied Ecology</i> , 2017, 25, 37-47.	2.7	29
25	Self-organized spatial structures of locust groups emerging from local interaction. <i>Ecological Modelling</i> , 2017, 361, 26-40.	2.5	11
26	Applications of Remote Sensing to Locust Management. , 2016, , 263-293.		14
27	Importance of solitary desert locust population dynamics: lessons from historical survey data in Algeria. <i>Entomologia Experimentalis Et Applicata</i> , 2016, 161, 168-180.	1.4	32
28	Extra Molting and Selection on Nymphal Growth in the Desert Locust. <i>PLoS ONE</i> , 2016, 11, e0155736.	2.5	9
29	Modelling the interactive effects of selective fishing and environmental change on Atlantic salmon demogenetics. <i>Journal of Applied Ecology</i> , 2015, 52, 1629-1637.	4.0	12
30	Characterizing phase-related differences in behaviour of <i>Schistocerca gregaria</i> with spatial distribution analysis. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 156, 128-135.	1.4	8
31	Estimation of density threshold of gregarization of desert locust hoppers from field sampling in Mauritania. <i>Entomologia Experimentalis Et Applicata</i> , 2015, 156, 136-148.	1.4	20
32	The mountain environment, a driver for adaptation to climate change. <i>Land Use Policy</i> , 2015, 48, 51-62.	5.6	17
33	Comparing the influence of large- and small-scale disturbances on forest heterogeneity: A simulation study for mangroves. <i>Ecological Complexity</i> , 2014, 20, 107-115.	2.9	12
34	Plant Size-dependent Escaping Behavior of Gregarious Nymphs of the Desert Locust, <i>Schistocerca gregaria</i> . <i>Journal of Insect Behavior</i> , 2013, 26, 623-633.	0.7	11
35	Latitudinal Patterns of Herbivory in Mangrove Forests: Consequences of Nutrient Over-Enrichment. <i>Ecosystems</i> , 2013, 16, 1203-1215.	3.4	24
36	Coupling historical prospection data and a remotely-sensed vegetation index for the preventative control of Desert locusts. <i>Basic and Applied Ecology</i> , 2013, 14, 593-604.	2.7	44

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37	Effect of vegetation on density thresholds of adult desert locust gregarization from survey data in Mauritania. <i>Entomologia Experimentalis Et Applicata</i> , 2013, 149, 159-165.	1.4	40
38	Contrasting effects of climate change in continental vs. oceanic environments on population persistence and microevolution of Atlantic salmon. <i>Global Change Biology</i> , 2013, 19, 711-723.	9.5	47
39	Eggs and hatchlings variations in desert locusts: phase related characteristics and starvation tolerance. <i>Frontiers in Physiology</i> , 2013, 4, 345.	2.8	11
40	Investigating the role of impoundment and forest structure on the resistance and resilience of mangrove forests to hurricanes. <i>Aquatic Botany</i> , 2012, 97, 24-29.	1.6	30
41	Field Observations of the Sheltering Behavior of the Solitarious Phase of the Desert Locust, <i>Schistocerca gregaria</i> , with Particular Reference to Antipredator Strategies. <i>Japan Agricultural Research Quarterly</i> , 2012, 46, 339-345.	0.4	8
42	A demo-genetic individual-based model for Atlantic salmon populations: Model structure, parameterization and sensitivity. <i>Ecological Modelling</i> , 2012, 231, 37-52.	2.5	53
43	Obstacles to migration constrain nest distribution of Atlantic salmon. <i>Ecology of Freshwater Fish</i> , 2011, 20, 400-408.	1.4	10
44	Proposing an information criterion for individual-based models developed in a pattern-oriented modelling framework. <i>Ecological Modelling</i> , 2009, 220, 1957-1967.	2.5	42
45	Spatial structure of a leaf-removing crab population in a mangrove of North-Brazil. <i>Wetlands Ecology and Management</i> , 2009, 17, 93-106.	1.5	23
46	Testing the intermediate disturbance hypothesis in species-poor systems: A simulation experiment for mangrove forests. <i>Journal of Vegetation Science</i> , 2008, 19, 417-424.	2.2	17
47	Advances and limitations of individual-based models to analyze and predict dynamics of mangrove forests: A review. <i>Aquatic Botany</i> , 2008, 89, 260-274.	1.6	124
48	Competition among plants: Concepts, individual-based modelling approaches, and a proposal for a future research strategy. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2008, 9, 121-135.	2.7	150
49	Simulating cryptic movements of a mangrove crab: Recovery phenomena after small scale fishery. <i>Ecological Modelling</i> , 2007, 205, 110-122.	2.5	39
50	Zonation Patterns of Belizean Offshore Mangrove Forests 41 Years After a Catastrophic Hurricane ¹ . <i>Biotropica</i> , 2006, 38, 365-374.	1.6	95
51	A standard protocol for describing individual-based and agent-based models. <i>Ecological Modelling</i> , 2006, 198, 115-126.	2.5	2,219