

Mattias Jonsson

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

4,545
citations

109321

35
h-index

118850

62
g-index

68
all docs

68
docs citations

68
times ranked

4379
citing authors

#	ARTICLE	IF	CITATIONS
1	A global synthesis reveals biodiversity-mediated benefits for crop production. <i>Science Advances</i> , 2019, 5, eaax0121.	10.3	524
2	Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7863-E7870.	7.1	401
3	When natural habitat fails to enhance biological pest control – Five hypotheses. <i>Biological Conservation</i> , 2016, 204, 449-458.	4.1	388
4	The effectiveness of flower strips and hedgerows on pest control, pollination services and crop yield: a quantitative synthesis. <i>Ecology Letters</i> , 2020, 23, 1488-1498.	6.4	319
5	Recent advances in conservation biological control of arthropods by arthropods. <i>Biological Control</i> , 2008, 45, 172-175.	3.0	228
6	Flow and stability of natural pest control services depend on complexity and crop rotation at the landscape scale. <i>Journal of Applied Ecology</i> , 2013, 50, 345-354.	4.0	172
7	Effects of agroforestry on pest, disease and weed control: A meta-analysis. <i>Basic and Applied Ecology</i> , 2015, 16, 573-582.	2.7	121
8	Agroforestry delivers a win-win solution for ecosystem services in sub-Saharan Africa. A meta-analysis. <i>Agronomy for Sustainable Development</i> , 2019, 39, 1.	5.3	119
9	Agroforestry boosts soil health in the humid and sub-humid tropics: A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2020, 295, 106899.	5.3	114
10	Economics and adoption of conservation biological control. <i>Biological Control</i> , 2008, 45, 272-280.	3.0	108
11	Contribution of trees to the conservation of biodiversity and ecosystem services in agricultural landscapes. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2018, 14, 1-16.	2.9	106
12	When is it biological control? A framework of definitions, mechanisms, and classifications. <i>Journal of Pest Science</i> , 2021, 94, 665-676.	3.7	86
13	Colonization Patterns of Insects Breeding in Wood-Decaying Fungi. <i>Journal of Insect Conservation</i> , 1999, 3, 145-161.	1.4	85
14	Experimental evidence that the effectiveness of conservation biological control depends on landscape complexity. <i>Journal of Applied Ecology</i> , 2015, 52, 1274-1282.	4.0	84
15	Agricultural intensification drives landscape context effects on host-parasitoid interactions in agroecosystems. <i>Journal of Applied Ecology</i> , 2012, 49, 706-714.	4.0	77
16	Relationships between natural enemy diversity and biological control. <i>Current Opinion in Insect Science</i> , 2017, 20, 1-6.	4.4	76
17	Diet of generalist predators reflects effects of cropping period and farming system on extra- and intraguild prey. <i>Ecological Applications</i> , 2017, 27, 1167-1177.	3.8	74
18	Methods to identify the prey of invertebrate predators in terrestrial field studies. <i>Ecology and Evolution</i> , 2017, 7, 1942-1953.	1.9	74

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19	Habitat manipulation to mitigate the impacts of invasive arthropod pests. <i>Biological Invasions</i> , 2010, 12, 2933-2945.	2.4	68
20	Solution Scanning as a Key Policy Tool: Identifying Management Interventions to Help Maintain and Enhance Regulating Ecosystem Services. <i>Ecology and Society</i> , 2014, 19, .	2.3	66
21	Effects of an herbivore-induced plant volatile on arthropods from three trophic levels in brassicas. <i>Biological Control</i> , 2010, 53, 62-67.	3.0	64
22	Ecological production functions for biological control services in agricultural landscapes. <i>Methods in Ecology and Evolution</i> , 2014, 5, 243-252.	5.2	60
23	Colonisation ability of the threatened tenebrionid beetle <i>Oplocephala haemorrhoidalis</i> and its common relative <i>Bolitophagus reticulatus</i> . <i>Ecological Entomology</i> , 2003, 28, 159-167.	2.2	55
24	Cost-effectiveness of silvicultural measures to increase substrate availability for red-listed wood-living organisms in Norway spruce forests. <i>Biological Conservation</i> , 2006, 127, 443-462.	4.1	54
25	Implications of floral resources for predation by an omnivorous lacewing. <i>Basic and Applied Ecology</i> , 2008, 9, 172-181.	2.7	54
26	Modelled impact of Norway spruce logging residue extraction on biodiversity in Sweden. <i>Canadian Journal of Forest Research</i> , 2011, 41, 1220-1232.	1.7	52
27	Ecosystem function in predatorâ€“prey food websâ€“confronting dynamic models with empirical data. <i>Journal of Animal Ecology</i> , 2019, 88, 196-210.	2.8	52
28	High Redundancy as well as Complementary Prey Choice Characterize Generalist Predator Food Webs in Agroecosystems. <i>Scientific Reports</i> , 2018, 8, 8054.	3.3	51
29	Cost-efficiency of measures to increase the amount of coarse woody debris in managed Norway spruce forests. <i>Forest Ecology and Management</i> , 2005, 206, 119-133.	3.2	50
30	Integrated pest and pollinator management â€“ expanding the concept. <i>Frontiers in Ecology and the Environment</i> , 2021, 19, 283-291.	4.0	50
31	â€“Attract and rewardâ€“: Combining a herbivore-induced plant volatile with floral resource supplementation â€“ Multi-trophic level effects. <i>Biological Control</i> , 2013, 64, 106-115.	3.0	48
32	Effects of landscape complexity and habitat management on stemborer colonization, parasitism and damage to maize. <i>Agriculture, Ecosystems and Environment</i> , 2014, 188, 289-293.	5.3	48
33	Diagnostic PCR assays to unravel food web interactions in cereal crops with focus on biological control of aphids. <i>Journal of Pest Science</i> , 2016, 89, 281-293.	3.7	48
34	Habitat heterogeneity induces rapid changes in the feeding behaviour of generalist arthropod predators. <i>Functional Ecology</i> , 2018, 32, 809-819.	3.6	48
35	Contrasting effects of shade level and altitude on two important coffee pests. <i>Journal of Pest Science</i> , 2015, 88, 281-287.	3.7	44
36	Predictive power of food web models based on body size decreases with trophic complexity. <i>Ecology Letters</i> , 2018, 21, 702-712.	6.4	38

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37	The impact of floral resources and omnivory on a four trophic level food web. <i>Bulletin of Entomological Research</i> , 2009, 99, 275-285.	1.0	36
38	Trees in agricultural landscapes enhance provision of ecosystem services in Sub-Saharan Africa. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 0, , 1-19.	2.9	36
39	Assessing the resilience of biodiversity-driven functions in agroecosystems under environmental change. <i>Advances in Ecological Research</i> , 2019, , 59-123.	2.7	32
40	Resilience of ecosystem processes: a new approach shows that functional redundancy of biological control services is reduced by landscape simplification. <i>Ecology Letters</i> , 2019, 22, 1568-1577.	6.4	26
41	Additive effects of predator diversity on pest control caused by few interactions among predator species. <i>Ecological Entomology</i> , 2015, 40, 362-371.	2.2	25
42	Insect Colonisation of Fruiting Bodies of the Wood-decaying Fungus <i>Fomitopsis pinicola</i> at Different Distances from an Old-growth Forest. <i>Biodiversity and Conservation</i> , 2006, 15, 295-309.	2.6	24
43	Theoretical expectations for thresholds in the relationship between number of wood-living species and amount of coarse woody debris: A study case in spruce forests. <i>Journal for Nature Conservation</i> , 2007, 15, 120-130.	1.8	23
44	Models of natural pest control: Towards predictions across agricultural landscapes. <i>Biological Control</i> , 2021, 163, 104761.	3.0	22
45	Title is missing!. <i>Journal of Insect Conservation</i> , 2003, 7, 111-124.	1.4	20
46	Cost-effectiveness of silvicultural measures to increase substrate availability for wood-dwelling species: A comparison among boreal tree species. <i>Scandinavian Journal of Forest Research</i> , 2010, 25, 46-60.	1.4	20
47	Introduction: Special issue on species interactions, ecological networks and community dynamics – “Untangling the entangled bank using molecular techniques. <i>Molecular Ecology</i> , 2019, 28, 157-164.	3.9	20
48	Shade trees decrease pest abundances on brassica crops in Kenya. <i>Agroforestry Systems</i> , 2019, 93, 641-652.	2.0	17
49	Pheromones affecting flying beetles colonizing the polypores <i>Fomes fomentarius</i> and <i>Fomitopsis pinicola</i> . <i>Entomologica Fennica</i> , 1997, 8, 161-165.	0.6	15
50	Relating shading levels and distance from natural vegetation with hemipteran pests and predators occurrence on coffee. <i>Journal of Applied Entomology</i> , 2015, 139, 669-678.	1.8	13
51	High agricultural intensity at the landscape scale benefits pests, but low intensity practices at the local scale can mitigate these effects. <i>Agriculture, Ecosystems and Environment</i> , 2021, 306, 107199.	5.3	13
52	The role of trees and livestock in ecosystem service provision and farm priorities on smallholder farms in the Rift Valley, Kenya. <i>Agricultural Systems</i> , 2020, 181, 102815.	6.1	12
53	Modelling mating success of saproxylic beetles in relation to search behaviour, population density and substrate abundance. <i>Animal Behaviour</i> , 2003, 65, 1069-1076.	1.9	11
54	Archetype models upscale understanding of natural pest control response to land-use change. <i>Ecological Applications</i> , 2022, 32, .	3.8	11

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55	Effects of Agroforestry and Other Sustainable Practices in the Kenya Agricultural Carbon Project (KACP). <i>Land</i> , 2020, 9, 389.	2.9	10
56	Factors affecting smallholder adoption of adaptation and coping measures to deal with rainfall variability. <i>International Journal of Agricultural Sustainability</i> , 2021, 19, 175-198.	3.5	10
57	Landscape complexity promotes resilience of biological pest control to climate change. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210547.	2.6	10
58	Least-cost allocation of measures to increase the amount of coarse woody debris in forest estates. <i>Journal of Forest Economics</i> , 2013, 19, 267-285.	0.2	6
59	Seed predation is key to preventing population growth of the weed <i>Alopecurus myosuroides</i> . <i>Journal of Applied Ecology</i> , 2022, 59, 471-482.	4.0	6
60	Suction trap catches partially predict infestations of the grain aphid <i>Sitobion avenae</i> in winter wheat fields. <i>Journal of Applied Entomology</i> , 2016, 140, 553-557.	1.8	5
61	Effects of management practices on legume productivity in smallholder farming systems in sub-Saharan Africa. <i>Food and Energy Security</i> , 2022, 11, .	4.3	4
62	Insect colonisation of fruiting bodies of the wood-decaying fungus <i>Fomitopsis pinicola</i> at different distances from an old-growth forest. , 2006, , 281-295.		3
63	A meta-analysis of biocontrol potential and herbivore pressure in olive crops: does integrated pest management make a difference?. <i>Basic and Applied Ecology</i> , 2022, , .	2.7	2
64	Influence of drought on interactions between <i>Rhopalosiphum padi</i> and ground dwelling predators – A mesocosm study. <i>Journal of Applied Entomology</i> , 0, , .	1.8	1