

Claire Lavigne

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

3,601
citations

159525

30
h-index

143943

57
g-index

77
all docs

77
docs citations

77
times ranked

3721
citing authors

#	ARTICLE	IF	CITATIONS
1	A global synthesis reveals biodiversity-mediated benefits for crop production. <i>Science Advances</i> , 2019, 5, eaax0121.	4.7	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.	3.3	401
3	Does landscape composition affect pest abundance and their control by natural enemies? A review. <i>Agriculture, Ecosystems and Environment</i> , 2013, 166, 110-117.	2.5	322
4	A functional overview of conservation biological control. <i>Crop Protection</i> , 2017, 97, 145-158.	1.0	180
5	A pollen-dispersal experiment with transgenic oilseed rape. Estimation of the average pollen dispersal of an individual plant within a field. <i>Theoretical and Applied Genetics</i> , 1998, 96, 886-896.	1.8	122
6	CORN POLLEN DISPERSAL: QUASI-MECHANISTIC MODELS AND FIELD EXPERIMENTS. <i>Ecological Monographs</i> , 2003, 73, 131-150.	2.4	110
7	The influence of landscape on insect pest dynamics: a case study in southeastern France. <i>Landscape Ecology</i> , 2009, 24, 337-349.	1.9	106
8	Pollen dispersal of oilseed rape: estimation of the dispersal function and effects of field dimension. <i>Journal of Applied Ecology</i> , 2005, 43, 141-151.	1.9	89
9	Mixing of propagules from discrete sources at long distance: comparing a dispersal tail to an exponential. <i>BMC Ecology</i> , 2006, 6, 3.	3.0	87
10	Importance of the Life Cycle in Sympatric Host Race Formation and Speciation of Pathogens. <i>Phytopathology</i> , 2006, 96, 280-287.	1.1	80
11	Where do the feral oilseed rape populations come from? A large-scale study of their possible origin in a farmland area. <i>Journal of Applied Ecology</i> , 2008, 45, 476-485.	1.9	80
12	Metaheuristics for agricultural land use optimization. A review. <i>Agronomy for Sustainable Development</i> , 2015, 35, 975-998.	2.2	75
13	Modelling impacts of cropping systems and climate on maize cross-pollination in agricultural landscapes: The MAPOD model. <i>European Journal of Agronomy</i> , 2008, 28, 471-484.	1.9	73
14	Modelling and estimating pollen movement in oilseed rape (<i>Brassica napus</i>) at the landscape scale using genetic markers. <i>Molecular Ecology</i> , 2006, 16, 487-499.	2.0	68
15	High diversity of oilseed rape pollen clouds over an agro-ecosystem indicates long-distance dispersal. <i>Molecular Ecology</i> , 2005, 14, 2269-2280.	2.0	67
16	Eco-Evolutionary Dynamics of Agricultural Networks. <i>Advances in Ecological Research</i> , 2013, 49, 339-435.	1.4	54
17	Spatial scale of insect-mediated pollen dispersal in oilseed rape in an open agricultural landscape. <i>Journal of Applied Ecology</i> , 2011, 48, 689-696.	1.9	50
18	Sustainability assessment of crop protection systems: SustainOS methodology and its application for apple orchards. <i>Agricultural Systems</i> , 2012, 113, 1-15.	3.2	50

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19	Local pesticide use intensity conditions landscape effects on biological pest control. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182898.	1.2	48
20	Agroecology landscapes. Landscape Ecology, 2021, 36, 2235-2257.	1.9	47
21	Codling moth parasitism is affected by semi-natural habitats and agricultural practices at orchard and landscape levels. Agriculture, Ecosystems and Environment, 2013, 169, 33-42.	2.5	46
22	Apple orchard pest control strategies affect bird communities in southeastern France. Environmental Toxicology and Chemistry, 2011, 30, 212-219.	2.2	45
23	How to quantify a distance-dependent landscape effect on a biological response. Methods in Ecology and Evolution, 2017, 8, 1717-1724.	2.2	41
24	Predation of codling moth eggs is affected by pest management practices at orchard and landscape levels. Agriculture, Ecosystems and Environment, 2013, 166, 86-93.	2.5	36
25	Spatial organisation of habitats in agricultural plots affects per-capita predator effect on conservation biological control: An individual based modelling study. Ecological Modelling, 2018, 388, 124-135.	1.2	35
26	Environmental and landscape effects on cross-pollination rates observed at long distance among French oilseed rape (<i>Brassica napus</i>) commercial fields. Journal of Applied Ecology, 2008, 45, 803-812.	1.9	33
27	Using seed purity data to estimate an average pollen mediated gene flow from crops to wild relatives. Theoretical and Applied Genetics, 2002, 104, 139-145.	1.8	32
28	Genetic differentiation of neutral markers and quantitative traits in predominantly selfing metapopulations: confronting theory and experiments with <i>Arabidopsis thaliana</i> . Genetical Research, 2006, 87, 1-12.	0.3	32
29	How do genetically modified (GM) crops contribute to background levels of GM pollen in an agricultural landscape?. Journal of Applied Ecology, 2008, 45, 1104-1113.	1.9	32
30	The impact of landscape composition on the occurrence of a canopy dwelling spider depends on orchard management.. Agriculture, Ecosystems and Environment, 2016, 215, 20-29.	2.5	32
31	Neutral modelling of agricultural landscapes by tessellation methods—Application for gene flow simulation. Ecological Modelling, 2009, 220, 3536-3545.	1.2	31
32	Early-season predation on aphids by winter-active spiders in apple orchards revealed by diagnostic PCR. Bulletin of Entomological Research, 2013, 103, 148-154.	0.5	31
33	EXPERIMENTAL DEMONSTRATION OF A CAUSAL RELATIONSHIP BETWEEN HETEROGENEITY OF SELECTION AND GENETIC DIFFERENTIATION IN QUANTITATIVE TRAITS. Evolution; International Journal of Organic Evolution, 2004, 58, 1434-1445.	1.1	30
34	Landscape-scale expansion of agroecology to enhance natural pest control: A systematic review. Advances in Ecological Research, 2020, , 1-48.	1.4	28
35	Spatial sensitivity of maize gene-flow to landscape pattern: a simulation approach. Landscape Ecology, 2008, 23, 1067-1079.	1.9	27
36	Predation by generalist predators on the codling moth versus a closely-related emerging pest the oriental fruit moth: a molecular analysis. Agricultural and Forest Entomology, 2012, 14, 260-269.	0.7	27

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37	Spider predation on rosy apple aphid in conventional, organic and insecticide-free orchards and its impact on aphid populations. <i>Biological Control</i> , 2017, 104, 57-65.	1.4	26
38	A simulation study of the medium-term effects of field patterns on cross-pollination rates in oilseed rape (<i>Brassica napus</i> L.). <i>Ecological Modelling</i> , 2009, 220, 662-672.	1.2	22
39	Effects of hedgerow characteristics on intra-orchard distribution of larval codling moth. <i>Agriculture, Ecosystems and Environment</i> , 2011, 140, 395-400.	2.5	22
40	Do species population parameters and landscape characteristics affect the relationship between local population abundance and surrounding habitat amount?. <i>Ecological Complexity</i> , 2013, 15, 62-70.	1.4	21
41	Evolution of genetic diversity in metapopulations: <i>Arabidopsis thaliana</i> as an experimental model. <i>Genetics Selection Evolution</i> , 2001, 33, .	1.2	19
42	Spatio-temporal dynamics of <i>Orius</i> spp. (Heteroptera: Anthocoridae) abundance in the agricultural landscape. <i>Agriculture, Ecosystems and Environment</i> , 2012, 162, 45-51.	2.5	18
43	Genetic variation in response to elevated CO ₂ in three grassland perennials – a field experiment with two competition regimes. <i>Acta Oecologica</i> , 1997, 18, 263-268.	0.5	17
44	Bayesian inferences of arthropod movements between hedgerows and orchards. <i>Basic and Applied Ecology</i> , 2017, 21, 76-84.	1.2	17
45	Dynamic management of genetic resources: maintenance of outcrossing in experimental metapopulations of a predominantly inbreeding species. <i>Conservation Genetics</i> , 2004, 5, 259-269.	0.8	16
46	Genetic inferences about the population dynamics of codling moth females at a local scale. <i>Genetica</i> , 2011, 139, 949-960.	0.5	16
47	Multiple Origins of the Sodium Channel <i>kdr</i> Mutations in Codling Moth Populations. <i>PLoS ONE</i> , 2012, 7, e43543.	1.1	16
48	Nest-Site and Landscape Characteristics Affect the Distribution of Breeding Pairs of European Rollers <i>Coracias garullus</i> in an Agricultural Area of Southeastern France. <i>Acta Ornithologica</i> , 2014, 49, 23-32.	0.1	15
49	Bird populations most exposed to climate change are less sensitive to climatic variation. <i>Nature Communications</i> , 2022, 13, 2112.	5.8	15
50	Spatial analyses of ecological count data: A density map comparison approach. <i>Basic and Applied Ecology</i> , 2010, 11, 734-742.	1.2	12
51	Influence of the margin vegetation on the conservation of aphid biological control in apple orchards. <i>Journal of Insect Conservation</i> , 2018, 22, 465-474.	0.8	12
52	Issues and challenges in landscape models for agriculture: from the representation of agroecosystems to the design of management strategies. <i>Landscape Ecology</i> , 2018, 33, 1679-1690.	1.9	12
53	Impact of pest control strategies on the arthropodofauna living in bird nests built in nestboxes in pear and apple orchards. <i>Bulletin of Entomological Research</i> , 2013, 103, 458-465.	0.5	10
54	Factors driving growers'™ selection and implementation of an apple crop protection strategy at the farm level. <i>Crop Protection</i> , 2016, 88, 109-117.	1.0	10

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55	More daughters in a less favourable world: Breeding in intensively-managed orchards affects tertiary sex-ratio in the great tit. <i>Basic and Applied Ecology</i> , 2016, 17, 638-647.	1.2	9
56	GENEXP, un logiciel simulateur de paysages agricoles pour l'Étude de la diffusion de transgénés. <i>Revue Internationale De Géomatique</i> , 2007, 17, 469-487.	0.2	9
57	Pesticide use in vineyards is affected by semi-natural habitats and organic farming share in the landscape. <i>Agriculture, Ecosystems and Environment</i> , 2022, 333, 107967.	2.5	9
58	Temporal dynamics of parasitoid assemblages parasitizing the codling moth. <i>Biological Control</i> , 2015, 82, 31-39.	1.4	8
59	An Unified Framework to Integrate Biotic, Abiotic Processes and Human Activities in Spatially Explicit Models of Agricultural Landscapes. <i>Frontiers in Environmental Science</i> , 2016, 4, .	1.5	8
60	Biochemical and Molecular Mechanisms Associated With the Resistance of the European Corn Borer (Lepidoptera: Crambidae) to Lambda-Cyhalothrin and First Monitoring Tool. <i>Journal of Economic Entomology</i> , 2017, 110, tow267.	0.8	7
61	A simulation tool to support the design of crop management strategies in fruit tree farms. Application to the reduction of pesticide use. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 260-272.	3.7	7
62	Estimating population dynamics parameters of cabbage pests in temperate mixed apple tree-cabbage plots compared to control vegetable plots. <i>Crop Protection</i> , 2020, 129, 105037.	1.0	6
63	Conservation value of pome fruit orchards for overwintering birds in southeastern France. <i>Biodiversity and Conservation</i> , 2020, 29, 3169-3189.	1.2	6
64	Phenological asynchrony between the fruit fly <i>Anastrepha fraterculus</i> and early maturing peach cultivars could contribute to pesticide use reduction. <i>Spanish Journal of Agricultural Research</i> , 2019, 17, e1001.	0.3	6
65	Genetic Variation in the Response of Pollen Germination to Nutrient Availability and Elevated Atmospheric CO ₂ Concentrations in <i>Epilobium angustifolium</i> . <i>International Journal of Plant Sciences</i> , 1999, 160, 109-115.	0.6	5
66	Impact of native forest remnants and wild host plants on the abundance of the South American fruit fly, <i>Anastrepha fraterculus</i> in Brazilian apple orchards. <i>Agriculture, Ecosystems and Environment</i> , 2019, 275, 93-99.	2.5	5
67	Pests, but not predators, increase in mixed fruit tree-vegetable plots compared to control vegetable plots in a Mediterranean climate. <i>Agroforestry Systems</i> , 2020, 94, 627-638.	0.9	3
68	Keep your enemies closer: enhancing biological control through individual movement rules to retain natural enemies inside the field. <i>Web Ecology</i> , 2019, 19, 15-26.	0.4	2
69	Great tits nesting in apple orchards preferentially forage in organic but not conventional orchards and in hedgerows. <i>Agriculture, Ecosystems and Environment</i> , 2022, 337, 108074.	2.5	2
70	EXPERIMENTAL DEMONSTRATION OF A CAUSAL RELATIONSHIP BETWEEN HETEROGENEITY OF SELECTION AND GENETIC DIFFERENTIATION IN QUANTITATIVE TRAITS. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1434.	1.1	1
71	Modelling of Codling Moth Damage as a Function of Adult Monitoring, Crop Protection and Other Orchard Characteristics. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2014, 19, 419-436.	0.7	1
72	Single-row exclusion nets: an alternative pest control method with no detectable impact on breeding bird assemblages in orchards bordered by hedgerows. <i>Agronomy for Sustainable Development</i> , 2022, 42, 1.	2.2	0

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73	Assessing the effect of complex ground types on ground-dwelling arthropod movements with video monitoring: Dealing with concealed movements under a layer of plant residues. Ecology and Evolution, 2022, 12, .	0.8	0