

Francois J Verheggen

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122
papers

2,630
citations

29
h-index

44
g-index

127
ext. papers

3,152
ext. citations

3.3
avg, IF

5.19
L-index

#	Paper	IF	Citations
122	Microorganisms from aphid honeydew attract and enhance the efficacy of natural enemies. <i>Nature Communications</i> , 2011 , 2, 348	17.4	113
121	Aphid and plant volatiles induce oviposition in an aphidophagous hoverfly. <i>Journal of Chemical Ecology</i> , 2008 , 34, 301-7	2.7	112
120	Is the (E)-farnesene only volatile terpenoid in aphids?. <i>Journal of Applied Entomology</i> , 2005 , 129, 6-11	1.7	112
119	Aphid alarm pheromone: an overview of current knowledge on biosynthesis and functions. <i>Insect Biochemistry and Molecular Biology</i> , 2012 , 42, 155-63	4.5	94
118	Electrophysiological and behavioral responses of the multicolored Asian lady beetle, <i>Harmonia axyridis pallas</i> , to sesquiterpene semiochemicals. <i>Journal of Chemical Ecology</i> , 2007 , 33, 2148-55	2.7	90
117	Does imidacloprid seed-treated maize have an impact on honey bee mortality?. <i>Journal of Economic Entomology</i> , 2009 , 102, 616-23	2.2	87
116	Fast gas chromatography characterisation of purified semiochemicals from essential oils of <i>Matricaria chamomilla</i> L. (Asteraceae) and <i>Nepeta cataria</i> L. (Lamiaceae). <i>Journal of Chromatography A</i> , 2009 , 1216, 2768-75	4.5	58
115	Wireworms' Management: An Overview of the Existing Methods, with Particular Regards to <i>Agriotes</i> spp. (Coleoptera: Elateridae). <i>Insects</i> , 2013 , 4, 117-52	2.8	54
114	Responses of <i>Lucilia sericata</i> Meigen (Diptera: Calliphoridae) to cadaveric volatile organic compounds. <i>Journal of Forensic Sciences</i> , 2012 , 57, 386-90	1.8	50
113	The semiochemically mediated interactions between bacteria and insects. <i>Chemoecology</i> , 2011 , 21, 113-122		50
112	Role of terpenes from aphid-infested potato on searching and oviposition behavior of <i>Episyrphus balteatus</i> . <i>Insect Science</i> , 2007 , 14, 57	3.6	50
111	Alternatives to neonicotinoids. <i>Environment International</i> , 2019 , 129, 423-429	12.9	49
110	Aphid-ant mutualism: how honeydew sugars influence the behaviour of ant scouts. <i>Physiological Entomology</i> , 2010 , 35, 168-174	1.9	49
109	Electrophysiological and behavioral activity of secondary metabolites in the confused flour beetle, <i>Tribolium confusum</i> . <i>Journal of Chemical Ecology</i> , 2007 , 33, 525-39	2.7	48
108	Alarm pheromones-chemical signaling in response to danger. <i>Vitamins and Hormones</i> , 2010 , 83, 215-39	2.5	47
107	The chemical ecology of <i>Harmonia axyridis</i> . <i>BioControl</i> , 2011 , 56, 643-661	2.3	44
106	Aphid-host plant interactions: does aphid honeydew exactly reflect the host plant amino acid composition?. <i>Arthropod-Plant Interactions</i> , 2011 , 5, 193-199	2.2	42

105	Predatory hoverflies select their oviposition site according to aphid host plant and aphid species. <i>Entomologia Experimentalis Et Applicata</i> , 2007 , 125, 13-21	2.1	42
104	Social environment influences aphid production of alarm pheromone. <i>Behavioral Ecology</i> , 2009 , 20, 283-288		41
103	Tuta absoluta-induced plant volatiles: attractiveness towards the generalist predator <i>Macrolophus pygmaeus</i> . <i>Arthropod-Plant Interactions</i> , 2015 , 9, 465-476	2.2	40
102	Propensity of the Tomato Leafminer, <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae), to Develop on Four Potato Plant Varieties. <i>American Journal of Potato Research</i> , 2013 , 90, 255-260	2.1	40
101	Characterization of volatile organic compounds emitted by barley (<i>Hordeum vulgare</i> L.) roots and their attractiveness to wireworms. <i>Journal of Chemical Ecology</i> , 2013 , 39, 1129-39	2.7	39
100	Carrion beetles visiting pig carcasses during early spring in urban, forest and agricultural biotopes of Western Europe. <i>Journal of Insect Science</i> , 2011 , 11, 73	2	35
99	The Odor of Death: An Overview of Current Knowledge on Characterization and Applications. <i>BioScience</i> , 2017 , 67, 600-613	5.7	34
98	Climate Change and Tritrophic Interactions: Will Modifications to Greenhouse Gas Emissions Increase the Vulnerability of Herbivorous Insects to Natural Enemies?. <i>Environmental Entomology</i> , 2015 , 44, 277-86	2.1	33
97	Comparison of age-dependent quantitative changes in the male labial gland secretion of <i>Bombus terrestris</i> and <i>Bombus lucorum</i> . <i>Journal of Chemical Ecology</i> , 2009 , 35, 698-705	2.7	33
96	Honeydew volatile emission acts as a kairomonal message for the Asian lady beetle <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae). <i>Insect Science</i> , 2012 , 19, 498-506	3.6	31
95	Will climate change affect insect pheromonal communication?. <i>Current Opinion in Insect Science</i> , 2016 , 17, 87-91	5.1	30
94	Semiochemicals of <i>Rhagoletis</i> fruit flies: Potential for integrated pest management. <i>Crop Protection</i> , 2015 , 78, 114-118	2.7	29
93	Forensic entomology investigations from Doctor Marcel Leclercq (1924-2008): a review of cases from 1969 to 2005. <i>Journal of Medical Entomology</i> , 2013 , 50, 935-54	2.2	28
92	Electrophysiological and behavioral responses of <i>Thanatophilus sinuatus</i> Fabricius (Coleoptera: Silphidae) to selected cadaveric volatile organic compounds. <i>Journal of Forensic Sciences</i> , 2013 , 58, 917-23 ^{1,8}		27
91	Optimisation of a semiochemical slow-release alginate formulation attractive towards <i>Aphidius ervi</i> Haliday parasitoids. <i>Pest Management Science</i> , 2012 , 68, 127-36	4.6	27
90	Earthworms use odor cues to locate and feed on microorganisms in soil. <i>PLoS ONE</i> , 2011 , 6, e21927	3.7	27
89	Silicon and Plant Natural Defenses against Insect Pests: Impact on Plant Volatile Organic Compounds and Cascade Effects on Multitrophic Interactions. <i>Plants</i> , 2019 , 8,	4.5	26
88	Tomato-aphid-hoverfly: a tritrophic interaction incompatible for pest management. <i>Arthropod-Plant Interactions</i> , 2009 , 3, 141-149	2.2	26

87	Emission of alarm pheromone by non-preyed aphid colonies. <i>Journal of Applied Entomology</i> , 2008 , 132, 601-604	1.7	24
86	First record of <i>Tuta absoluta</i> in Haiti. <i>Entomologia Generalis</i> , 2019 , 38, 349-353	5.3	24
85	Ability of <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae) to develop on alternative host plant species. <i>Canadian Entomologist</i> , 2016 , 148, 434-442	0.7	24
84	Could alternative solanaceous hosts act as refuges for the tomato leafminer, <i>Tuta absoluta</i> ?. <i>Arthropod-Plant Interactions</i> , 2015 , 9, 425-435	2.2	23
83	Diversity of forensic rove beetles (Coleoptera, Staphylinidae) associated with decaying pig carcass in a forest biotope. <i>Journal of Forensic Sciences</i> , 2013 , 58, 1032-40	1.8	23
82	Emission of alarm pheromone in aphids: a non-contagious phenomenon. <i>Journal of Chemical Ecology</i> , 2008 , 34, 1146-8	2.7	23
81	Testing semiochemicals from aphid, plant and conspecific: attraction of <i>Harmonia axyridis</i> . <i>Insect Science</i> , 2012 , 19, 372-382	3.6	22
80	Role of long-chain hydrocarbons in the aggregation behaviour of <i>Harmonia axyridis</i> (Pallas) (Coleoptera: Coccinellidae). <i>Journal of Insect Physiology</i> , 2012 , 58, 801-7	2.4	22
79	Behavioral and Immunological Features Promoting the Invasive Performance of the Harlequin Ladybird <i>Harmonia axyridis</i> . <i>Frontiers in Ecology and Evolution</i> , 2017 , 5,	3.7	22
78	Aphid responses to volatile cues from turnip plants (<i>Brassica rapa</i>) infested with phloem-feeding and chewing herbivores. <i>Arthropod-Plant Interactions</i> , 2013 , 7, 567-577	2.2	21
77	Discrimination of parasitized aphids by a hoverfly predator: effects on larval performance, foraging, and oviposition behavior. <i>Entomologia Experimentalis Et Applicata</i> , 2008 , 128, 73-80	2.1	21
76	An introduction device for the aphidophagous hoverfly <i>Episyrphus balteatus</i> (De Geer) (Diptera: Syrphidae). <i>Biological Control</i> , 2010 , 54, 181-188	3.8	20
75	Foraging wireworms are attracted to root-produced volatile aldehydes. <i>Journal of Pest Science</i> , 2017 , 90, 69-76	5.5	19
74	First evidence of a volatile sex pheromone in lady beetles. <i>PLoS ONE</i> , 2014 , 9, e115011	3.7	19
73	Aphid alarm pheromone as a cue for ants to locate aphid partners. <i>PLoS ONE</i> , 2012 , 7, e41841	3.7	19
72	Bacteria may enhance species association in an ant-aphid mutualistic relationship. <i>Chemoecology</i> , 2015 , 25, 223-232	2	18
71	Conservation value of tropical forests: Distance to human settlements matters more than management in Central Africa. <i>Biological Conservation</i> , 2020 , 241, 108351	6.2	18
70	Infestation Level Influences Oviposition Site Selection in the Tomato Leafminer <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae). <i>Insects</i> , 2014 , 5, 877-84	2.8	17

69	Chemical Ecology of the Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> (Say) (Coleoptera: Chrysomelidae), and Potential for Alternative Control Methods. <i>Insects</i> , 2012 , 4, 31-54	2.8	17
68	Age-dependent attractivity of males to sexual pheromones in <i>Bombus terrestris</i> (L.) [Hymenoptera, Apidae]. <i>Chemoecology</i> , 2011 , 21, 75-82	2	17
67	Assessment of oviposition site quality by aphidophagous hoverflies: reaction to conspecific larvae. <i>Animal Behaviour</i> , 2010 , 79, 589-594	2.8	17
66	Structure and distribution of the sensilla on the antennae of <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae). <i>Micron</i> , 2017 , 96, 16-28	2.3	16
65	Betraying its presence: identification of the chemical signal released by <i>Tuta absoluta</i> -infested tomato plants that guide generalist predators toward their prey. <i>Arthropod-Plant Interactions</i> , 2017 , 11, 111-120	2.2	16
64	Aphid honeydew: An arrestant and a contact kairomone for <i>Episyrphus balteatus</i> (Diptera: Syrphidae) larvae and adults. <i>European Journal of Entomology</i> , 2014 , 111, 237-242		16
63	Intraguild interactions between the predatory hoverfly <i>Episyrphus balteatus</i> (Diptera: Syrphidae) and the Asian ladybird, <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae): Effect of larval tracks. <i>European Journal of Entomology</i> , 2010 , 107, 41-45		16
62	Integrated pest management of <i>Tuta absoluta</i> : practical implementations across different world regions. <i>Journal of Pest Science</i> , 2022 , 95, 17	5.5	16
61	Insect pest monitoring with camera-equipped traps: strengths and limitations. <i>Journal of Pest Science</i> , 2021 , 94, 203-217	5.5	16
60	The scent of love: how important are semiochemicals in the sexual behavior of lady beetles?. <i>Journal of Pest Science</i> , 2016 , 89, 347-358	5.5	15
59	Validation of a fast gas chromatographic method for the study of semiochemical slow release formulations. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 53, 962-72	3.5	15
58	Walnut husk fly, <i>Rhagoletis completa</i> (Diptera: Tephritidae), invades Europe: invasion potential and control strategies. <i>Applied Entomology and Zoology</i> , 2017 , 52, 1-7	1.5	14
57	Host-habitat location by the parasitoid, <i>Nasonia vitripennis</i> Walker (Hymenoptera: Pteromalidae). <i>Journal of Forensic Sciences</i> , 2014 , 59, 242-9	1.8	14
56	Today and tomorrow: impact of climate change on aphid biology and potential consequences on their mutualism with ants. <i>Physiological Entomology</i> , 2019 , 44, 77-86	1.9	14
55	Oviposition deterrent activity of basil plants and their essential oils against <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae). <i>Environmental Science and Pollution Research</i> , 2018 , 25, 29880-29888	5.1	14
54	Elevated Carbon Dioxide Concentration Reduces Alarm Signaling in Aphids. <i>Journal of Chemical Ecology</i> , 2017 , 43, 164-171	2.7	13
53	First Record of <i>Tuta absoluta</i> (Meyrick, 1917) (Lepidoptera: Gelechiidae) in Burkina Faso. <i>African Entomology</i> , 2017 , 25, 259	0.5	13
52	Is the multicolored Asian ladybeetle, <i>Harmonia axyridis</i> , the most abundant natural enemy to aphids in agroecosystems?. <i>Journal of Insect Science</i> , 2013 , 13, 158		13

51	Aggregation behavior of <i>Harmonia axyridis</i> under non-wintering conditions. <i>Insect Science</i> , 2015 , 22, 670-8	3.6	12
50	The community of Hymenoptera parasitizing necrophagous Diptera in an urban biotope. <i>Journal of Insect Science</i> , 2013 , 13, 32		12
49	Predation of the Peach Aphid <i>Myzus persicae</i> by the mirid Predator <i>Macrolophus pygmaeus</i> on Sweet Peppers: Effect of Prey and Predator Density. <i>Insects</i> , 2015 , 6, 514-23	2.8	12
48	Occurrence of <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) in field crops. <i>European Journal of Entomology</i> , 2013 , 110, 285-292		12
47	Role of larval host plant experience and solanaceous plant volatile emissions in <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae) host finding behavior. <i>Arthropod-Plant Interactions</i> , 2014 , 8, 293	2.2	11
46	Identification of walnut husk (<i>Juglans regia</i> L.) volatiles and the behavioural response of the invasive Walnut Husk Fly, <i>Rhagoletis completa</i> Cresson. <i>Pest Management Science</i> , 2017 , 73, 2100-2104	4.6	10
45	Bacteria may contribute to distant species recognition in ant-aphid mutualistic relationships. <i>Insect Science</i> , 2017 , 24, 278-284	3.6	8
44	First Characterisation of Volatile Organic Compounds Emitted by Banana Plants. <i>Scientific Reports</i> , 2017 , 7, 46400	4.9	8
43	A review of <i>Tuta absoluta</i> (Lepidoptera: Gelechiidae) host plants and their impact on management strategies. <i>Biotechnology, Agronomy and Society and Environment</i> , 2019 , 270-278	1.3	8
42	Behavioural response of <i>Lucilia sericata</i> to a decaying body infested by necrophagous insects. <i>Physiological Entomology</i> , 2018 , 43, 188-195	1.9	8
41	Effects of Host Plants Reared under Elevated CO Concentrations on the Foraging Behavior of Different Stages of Corn Leaf Aphids. <i>Insects</i> , 2019 , 10,	2.8	7
40	Insects associated with <i>Jatropha curcas</i> Linn. (Euphorbiaceae) in west Niger. <i>Journal of Insect Science</i> , 2014 , 14,	2	7
39	Substrate marking by an invasive ladybeetle: seasonal changes in hydrocarbon composition and behavioral responses. <i>PLoS ONE</i> , 2013 , 8, e61124	3.7	7
38	Tuned protection of aphids by ants against a predatory hoverfly. <i>Ecological Entomology</i> , 2017 , 42, 235-244	4.1	6
37	Cuticular hydrocarbon composition does not allow <i>Harmonia axyridis</i> males to identify the mating status of sexual partners. <i>Entomologia Generalis</i> , 2019 , 38, 211-224	5.3	6
36	Biocidal activity of polylactic acid-based nano-formulated abamectin on <i>Acyrtosiphon pisum</i> (Hemiptera: Aphididae) and the aphid predator <i>Adalia bipunctata</i> (Coleoptera: Coccinellidae). <i>PLoS ONE</i> , 2020 , 15, e0228817	3.7	6
35	Dispersion of <i>Myzus persicae</i> and transmission of Potato virus Y under elevated CO2 atmosphere. <i>Entomologia Experimentalis Et Applicata</i> , 2018 , 166, 380-385	2.1	6
34	Differential wing polyphenism adaptation across life stages under extreme high temperatures in corn leaf aphid. <i>Scientific Reports</i> , 2019 , 9, 8744	4.9	5

33	Elevated CO ₂ Concentrations Impact the Semiochemistry of Aphid Honeydew without Having a Cascade Effect on an Aphid Predator. <i>Insects</i> , 2018 , 9,	2.8	5
32	Consumption of Immature Stages of Colorado Potato Beetle by Chrysoperla Carnea (Neuroptera: Chrysopidae) Larvae in the Laboratory. <i>American Journal of Potato Research</i> , 2013 , 90, 51-57	2.1	5
31	Does the Infectious Status of Aphids Influence Their Preference Towards Healthy, Virus-Infected and Endophytically Colonized Plants?. <i>Insects</i> , 2020 , 11,	2.8	5
30	Biological alternatives to pesticides to control wireworms (Coleoptera: Elateridae). <i>Agri Gene</i> , 2019 , 11, 100080	1.9	5
29	Orientation behaviour of Culicoides obsoletus (Diptera: Ceratopogonidae), a relevant virus vector in northern Europe, toward host-associated odorant cues. <i>Veterinary Parasitology</i> , 2015 , 211, 274-82	2.8	4
28	Odour profile of human corpses: A review. <i>Forensic Chemistry</i> , 2018 , 10, 27-36	2.8	4
27	Associative learning of Nasonia vitripennis Walker (Hymenoptera:Pteromalidae) to methyl disulfanylmethane. <i>Journal of Forensic Sciences</i> , 2014 , 59, 413-6	1.8	4
26	Insecticide susceptibility level and control failure likelihood estimation of Sub-Saharan African populations of tomato leafminer: Evidence from Burkina Faso. <i>Physiological Entomology</i> , 2020 , 45, 147-153	1.9	4
25	Improving the Monitoring of the Walnut Husk Fly (Diptera: Tephritidae) Using Male-Produced Lactones. <i>Journal of Economic Entomology</i> , 2018 , 111, 2032-2037	2.2	4
24	The Production of Sex Pheromone in Lady Beetles Is Conditioned by Presence of Aphids and Not by Mating Status. <i>Journal of Chemical Ecology</i> , 2020 , 46, 590-596	2.7	3
23	Behavioral and Electrophysiological Responses of the Fringed Larder Beetle to the Smell of a Cadaver at Different Decomposition Stages. <i>Insects</i> , 2020 , 11,	2.8	3
22	Identification of the Alarm Pheromone of Cowpea Aphid, and Comparison With Two Other Aphididae Species. <i>Journal of Insect Science</i> , 2018 , 18,	2	3
21	Do aphids actively search for ant partners?. <i>Insect Science</i> , 2015 , 22, 283-8	3.6	3
20	Is Contact Between Conspecifics Involved in the Cohesion of Harmonia axyridis (Pallas) (Coleoptera: Coccinellidae) Aggregations?. <i>Journal of Insect Behavior</i> , 2014 , 27, 1-13	1.1	3
19	Aphid-Overfly interactions under elevated CO ₂ concentrations: oviposition and larval development. <i>Physiological Entomology</i> , 2018 , 43, 245-250	1.9	3
18	Aphid Behavior on Amaranthus hybridus L. (Amaranthaceae) Associated with Ocimum spp. (Lamiaceae) as Repellent Plants. <i>Agronomy</i> , 2020 , 10, 736	3.6	2
17	Fourteen years of anthropization dynamics in the Uapaca bojeri Baill. forest of Madagascar. <i>Landscape and Ecological Engineering</i> , 2018 , 14, 135-146	2	2
16	Comparison of the Sex Pheromone Composition of Originating from Native and Invaded Areas. <i>Insects</i> , 2019 , 10,	2.8	2

15	Depth and type of substrate influence the ability of <i>Nasonia vitripennis</i> to locate a host. <i>Journal of Insect Science</i> , 2014 , 14, 58	2	2
14	Is conspecific substrate marking a long-term external memory of previously colonized overwintering sites in <i>Harmonia axyridis</i> ?. <i>Journal of Applied Entomology</i> , 2014 , 138, 338-345	1.7	2
13	Impact of necrophagous insects on the emission of volatile organic compounds released during the decaying process. <i>Entomologia Generalis</i> , 2019 , 39, 19-31	5.3	2
12	Linking variety-dependent root volatile organic compounds in maize with differential infestation by wireworms. <i>Journal of Pest Science</i> , 2020 , 93, 605-614	5.5	2
11	Forensic taphonomy: Characterization of the gravesoil chemistry using a multivariate approach combining chemical and volatile analyses. <i>Forensic Science International</i> , 2021 , 318, 110569	2.6	2
10	Behavioural and antennal responses of <i>Aedes aegypti</i> (L.) (Diptera: Culicidae) gravid females to chemical cues from conspecific larvae. <i>PLoS ONE</i> , 2021 , 16, e0247657	3.7	2
9	Premier signalement de <i>Deudorix livia</i> (Lepidoptera: Lycaenidae) en Algérie: Un ravageur important du grenadier et du palmier dattier. <i>EPPO Bulletin</i> , 2018 , 48, 281-286	1	2
8	EU Court to rule on banned pesticide use. <i>Science</i> , 2021 , 373, 290	33.3	2
7	The taste of origin in a lady beetle: do males discriminate between females based on cuticular hydrocarbons?. <i>Physiological Entomology</i> , 2019 , 44, 160-168	1.9	1
6	Depth and Type of Substrate Influence the Ability of <i>Nasonia vitripennis</i> to Locate a Host. <i>Journal of Insect Science</i> , 2014 , 14, 1-12	2	1
5	What is an emergency? Neonicotinoids and emergency situations in plant protection in the EU.. <i>Ambio</i> , 2022 , 1	6.5	1
4	Cadaver Dogs and the Deathly Hallows-A Survey and Literature Review on Selection and Training Procedure. <i>Animals</i> , 2020 , 10,	3.1	1
3	Towards more intimacy: moderate elevation of temperature drives increases in foraging and mutualistic interactions between <i>Lasius niger</i> and <i>Aphis fabae</i> . <i>Ecological Entomology</i> , 2021 , 46, 406-418	2.1	1
2	Differential thermal tolerance across life stages under extreme high temperatures crossed with feeding status in corn leaf aphid. <i>Ecological Entomology</i> , 2021 , 46, 533-540	2.1	1
1	Annual dynamics of fall armyworm populations in West Africa and biology in different host plants. <i>Scientific African</i> , 2022 , 16, e01227	1.7	