

Gianfranco Anfora

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

5,763
citations

61984

43
h-index

88630

70
g-index

116
all docs

116
docs citations

116
times ranked

3875
citing authors

#	ARTICLE	IF	CITATIONS
1	Invasion biology of spotted wing <i>Drosophila</i> (<i>Drosophila suzukii</i>): a global perspective and future priorities. <i>Journal of Pest Science</i> , 2015, 88, 469-494.	3.7	711
2	A critical review of plant protection tools for reducing pesticide use on grapevine and new perspectives for the implementation of IPM in viticulture. <i>Crop Protection</i> , 2017, 97, 70-84.	2.1	272
3	Putative Chemosensory Receptors of the Codling Moth, <i>Cydia pomonella</i> , Identified by Antennal Transcriptome Analysis. <i>PLoS ONE</i> , 2012, 7, e31620.	2.5	166
4	Chemical Ecology and Management of <i>Lobesia botrana</i> (Lepidoptera: Tortricidae). <i>Journal of Economic Entomology</i> , 2011, 104, 1125-1137.	1.8	140
5	Linking Genomics and Ecology to Investigate the Complex Evolution of an Invasive <i>Drosophila</i> Pest. <i>Genome Biology and Evolution</i> , 2013, 5, 745-757.	2.5	138
6	<i>Drosophila suzukii</i> . <i>Current Biology</i> , 2013, 23, R8-R9.	3.9	137
7	Integrating Temperature-Dependent Life Table Data into a Matrix Projection Model for <i>Drosophila suzukii</i> Population Estimation. <i>PLoS ONE</i> , 2014, 9, e106909.	2.5	124
8	ANTENNAL AND BEHAVIORAL RESPONSES OF GRAPEVINE MOTH <i>Lobesia botrana</i> FEMALES TO VOLATILES FROM GRAPEVINE. <i>Journal of Chemical Ecology</i> , 2005, 31, 77-87.	1.8	120
9	<i>Drosophila suzukii</i> (Diptera: Drosophilidae) and its Potential Impact to Wine Grapes During Harvest in Two Cool Climate Wine Grape Production Regions. <i>Journal of Economic Entomology</i> , 2015, 108, 1148-1155.	1.8	120
10	<i>Drosophila suzukii</i> (Diptera: Drosophilidae): A Decade of Research Towards a Sustainable Integrated Pest Management Program. <i>Journal of Economic Entomology</i> , 2021, 114, 1950-1974.	1.8	113
11	Host stage preference, efficacy and fecundity of parasitoids attacking <i>Drosophila suzukii</i> in newly invaded areas. <i>Biological Control</i> , 2015, 84, 28-35.	3.0	111
12	A chromosome-level genome assembly of <i>Cydia pomonella</i> provides insights into chemical ecology and insecticide resistance. <i>Nature Communications</i> , 2019, 10, 4237.	12.8	102
13	Behavioural and electrophysiological lateralization in a social (<i>Apis mellifera</i>) but not in a non-social (<i>Osmia cornuta</i>) species of bee. <i>Behavioural Brain Research</i> , 2010, 206, 236-239.	2.2	99
14	Multiple lines of evidence for reproductive winter diapause in the invasive pest <i>Drosophila suzukii</i> : useful clues for control strategies. <i>Journal of Pest Science</i> , 2016, 89, 689-700.	3.7	98
15	Understanding West Nile virus ecology in Europe: <i>Culex pipiens</i> host feeding preference in a hotspot of virus emergence. <i>Parasites and Vectors</i> , 2015, 8, 213.	2.5	95
16	<i>Drosophila suzukii</i> population response to environment and management strategies. <i>Journal of Pest Science</i> , 2016, 89, 653-665.	3.7	90
17	Manipulating behaviour with substrate-borne vibrations – potential for insect pest control. <i>Pest Management Science</i> , 2015, 71, 15-23.	3.4	87
18	Olfactory responses of <i>Drosophila suzukii</i> females to host plant volatiles. <i>Physiological Entomology</i> , 2015, 40, 54-64.	1.5	87

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19	Morpho-functional asymmetry of the olfactory receptors of the honeybee (<i>Apis mellifera</i>). Behavioural Brain Research, 2010, 209, 221-225.	2.2	85
20	Exploitation of Insect Vibrational Signals Reveals a New Method of Pest Management. PLoS ONE, 2012, 7, e32954.	2.5	84
21	Synthetic Grape Volatiles Attract Mated <i>Lobesia botrana</i> Females in Laboratory and Field Bioassays. Journal of Chemical Ecology, 2009, 35, 1054-1062.	1.8	82
22	Large-scale spatial dynamics of <i>Drosophila suzukii</i> in Trentino, Italy. Journal of Pest Science, 2018, 91, 1213-1224.	3.7	78
23	Sexual Behavior of <i>Drosophila suzukii</i> . Insects, 2015, 6, 183-196.	2.2	76
24	The Evolution of Olfactory Gene Families in <i>Drosophila</i> and the Genomic Basis of chemical-Ecological Adaptation in <i>Drosophila suzukii</i> . Genome Biology and Evolution, 2016, 8, 2297-2311.	2.5	76
25	Loss of <i>Drosophila</i> pheromone reverses its role in sexual communication in <i>Drosophila suzukii</i> . Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20143018.	2.6	70
26	Effects of chlorantraniliprole on eggs and larvae of <i>Lobesia botrana</i> (Denis & Sjostrom). Journal of Economic Entomology, 2017, 50, 462-469.	3.4	69
27	Lateralization in the Invertebrate Brain: Left-Right Asymmetry of Olfaction in Bumble Bee, <i>Bombus terrestris</i> . PLoS ONE, 2011, 6, e18903.	2.5	67
28	Coding and interaction of sex pheromone and plant volatile signals in the antennal lobe of the codling moth <i>Cydia pomonella</i> . Journal of Experimental Biology, 2010, 213, 4291-4303.	1.7	64
29	Attraction of Female Grapevine Moth to Common and Specific Olfactory Cues from 2 Host Plants. Chemical Senses, 2010, 35, 57-64.	2.0	63
30	Augmentative releases of <i>Trichopria drosophilae</i> for the suppression of early season <i>Drosophila suzukii</i> populations. BioControl, 2019, 64, 9-19.	2.0	62
31	Inter-Plant Vibrational Communication in a Leafhopper Insect. PLoS ONE, 2011, 6, e19692.	2.5	58
32	Comparative life history traits of indigenous Italian parasitoids of <i>Drosophila suzukii</i> and their effectiveness at different temperatures. Biological Control, 2017, 112, 20-27.	3.0	58
33	Host location and dispersal ability of the cosmopolitan parasitoid <i>Trichopria drosophilae</i> released to control the invasive spotted wing <i>Drosophila</i> . Biological Control, 2018, 117, 188-196.	3.0	58
34	Neural coding merges sex and habitat chemosensory signals in an insect herbivore. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130267.	2.6	56
35	Interkingdom Transfer of the Acne-Causing Agent, <i>Propionibacterium acnes</i> , from Human to Grapevine. Molecular Biology and Evolution, 2014, 31, 1059-1065.	8.9	54
36	Candidate pheromone receptors of codling moth <i>Cydia pomonella</i> respond to pheromones and kairomones. Scientific Reports, 2017, 7, 41105.	3.3	54

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37	Use of substrate-borne vibrational signals to attract the Brown Marmorated Stink Bug, <i>Halyomorpha halys</i> . <i>Journal of Pest Science</i> , 2017, 90, 1219-1229.	3.7	53
38	Substrate Vibrations during Courtship in Three <i>Drosophila</i> species. <i>PLoS ONE</i> , 2013, 8, e80708.	2.5	53
39	A predicted sex pheromone receptor of codling moth <i>Cydia pomonella</i> detects the plant volatile pear ester. <i>Frontiers in Ecology and Evolution</i> , 2014, 2, .	2.2	50
40	Genome comparisons indicate recent transfer of <i>Wolbachia</i> between sister species <i>Drosophila suzukii</i> and <i>D. subpulchrella</i> . <i>Ecology and Evolution</i> , 2017, 7, 9391-9404.	1.9	49
41	<i>Drosophila suzukii</i> (Diptera: Drosophilidae) Contributes to the Development of Sour Rot in Grape. <i>Journal of Economic Entomology</i> , 2018, 111, 283-292.	1.8	48
42	The process of pair formation mediated by substrate-borne vibrations in a small insect. <i>Behavioural Processes</i> , 2014, 107, 68-78.	1.1	47
43	Adjusting the scent ratio: using genetically modified <i>Vitis vinifera</i> plants to manipulate European grapevine moth behaviour. <i>Plant Biotechnology Journal</i> , 2018, 16, 264-271.	8.3	46
44	Toxicity of emamectin benzoate to <i>Cydia pomonella</i> (L.) and <i>Cydia molesta</i> (Busck) (Lepidoptera: Tortricidae): laboratory and field tests. <i>Pest Management Science</i> , 2009, 65, 306-312.	3.4	44
45	Behavioral and electrophysiological responses of the parasitic wasp <i>Psytalia concolor</i> (Szpligeti) (Hymenoptera: Braconidae) to <i>Ceratitis capitata</i> -induced fruit volatiles. <i>Biological Control</i> , 2013, 64, 116-124.	3.0	44
46	The Bee as a Model to Investigate Brain and Behavioural Asymmetries. <i>Insects</i> , 2014, 5, 120-138.	2.2	44
47	Asymmetric neural coding revealed by <i>in vivo</i> calcium imaging in the honey bee brain. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142571.	2.6	43
48	Functional transcriptome analyses of <i>Drosophila suzukii</i> antennae reveal mating-dependent olfaction plasticity in females. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 105, 51-59.	2.7	40
49	Draft Genome Sequence of the <i>Wolbachia</i> Endosymbiont of <i>Drosophila suzukii</i> . <i>Genome Announcements</i> , 2013, 1, .	0.8	37
50	<i>Wolbachia</i> in European Populations of the Invasive Pest <i>Drosophila suzukii</i> : Regional Variation in Infection Frequencies. <i>PLoS ONE</i> , 2016, 11, e0147766.	2.5	37
51	Comparison of attractants for monitoring <i>Drosophila suzukii</i> in sweet cherry orchards in Italy. <i>Journal of Applied Entomology</i> , 2018, 142, 18-25.	1.8	36
52	Evolutionary Insights into Taste Perception of the Invasive Pest <i>Drosophila suzukii</i> . <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 4185-4196.	1.8	35
53	Effect of anti-hail nets on <i>Cydia pomonella</i> behavior in apple orchards. <i>Entomologia Experimentalis Et Applicata</i> , 2008, 129, 32-36.	1.4	34
54	Mating Behavior of <i>Hyalesthes obsoletus</i> (Hemiptera: Cixiidae). <i>Annals of the Entomological Society of America</i> , 2010, 103, 813-822.	2.5	33

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55	Oviposition Response of the Moth <i>Lobesia botrana</i> to Sensory Cues from a Host Plant. <i>Chemical Senses</i> , 2011, 36, 633-639.	2.0	33
56	Assessing the Distribution of Exotic Egg Parasitoids of <i>Halyomorpha halys</i> in Europe with a Large-Scale Monitoring Program. <i>Insects</i> , 2021, 12, 316.	2.2	33
57	Optimized timing of parasitoid release: a mathematical model for biological control of <i>Drosophila suzukii</i> . <i>Theoretical Ecology</i> , 2018, 11, 489-501.	1.0	32
58	Searching for anatomical correlates of olfactory lateralization in the honeybee antennal lobes: A morphological and behavioural study. <i>Behavioural Brain Research</i> , 2011, 221, 290-294.	2.2	30
59	Reproductive Site Selection: Evidence of an Oviposition Cue in a Highly Adaptive Dipteran, <i>Drosophila suzukii</i> (Diptera: Drosophilidae). <i>Environmental Entomology</i> , 2020, 49, 355-363.	1.4	30
60	Mating disruption of codling moth <i>Cydia pomonella</i> with high densities of Ecodian sex pheromone dispensers. <i>Journal of Applied Entomology</i> , 2007, 131, 311-318.	1.8	29
61	Study on the Role of Olfaction in Host Plant Detection of <i>Scaphoideus titanus</i> (Hemiptera: Cicadellidae) Nymphs. <i>Journal of Economic Entomology</i> , 2009, 102, 974-980.	1.8	29
62	Distinct genotypes and phenotypes in European and American strains of <i>Drosophila suzukii</i> : implications for biology and management of an invasive organism. <i>Journal of Pest Science</i> , 2020, 93, 77-89.	3.7	29
63	Perception of Host Plant Volatiles in <i>Hyalesthes obsoletus</i> : Behavior, Morphology, and Electrophysiology. <i>Journal of Chemical Ecology</i> , 2012, 38, 1017-1030.	1.8	28
64	Disruption of <i>Phthorimaea operculella</i> (Lepidoptera: Gelechiidae) oviposition by the application of host plant volatiles. <i>Pest Management Science</i> , 2014, 70, 628-635.	3.4	27
65	Susceptibility of table grape varieties grown in south-eastern Italy to <i>Drosophila suzukii</i> . <i>Journal of Applied Entomology</i> , 2018, 142, 465-472.	1.8	26
66	Coupling Traditional Monitoring and Citizen Science to Disentangle the Invasion of <i>Halyomorpha halys</i> . <i>ISPRS International Journal of Geo-Information</i> , 2018, 7, 171.	2.9	26
67	Biological Activity of Ethyl (E)-2,4-Decadienoate on Different Tortricid Species: Electrophysiological Responses and Field Tests. <i>Environmental Entomology</i> , 2007, 36, 1025-1031.	1.4	25
68	A multimodal approach for tracing lateralisation along the olfactory pathway in the honeybee through electrophysiological recordings, morpho-functional imaging, and behavioural studies. <i>European Biophysics Journal</i> , 2011, 40, 1247-1258.	2.2	25
69	<i>Drosophila suzukii</i> daily dispersal between distinctly different habitats. <i>Entomologia Generalis</i> , 2020, 40, 25-37.	3.1	25
70	A Conserved Odorant Receptor Detects the Same 1-Indanone Analogs in a Tortricid and a Noctuid Moth. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	24
71	Responses of the Mediterranean Pine Shoot Beetle <i>Tomicus destruens</i> (Wollaston) to Pine Shoot and Bark Volatiles. <i>Journal of Chemical Ecology</i> , 2008, 34, 1162-1169.	1.8	23
72	Semiochemicals, semiophysicals and their integration for the development of innovative multi-modal systems for agricultural pests monitoring and control. <i>Entomologia Generalis</i> , 2022, 42, 167-183.	3.1	23

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73	Structural and transcriptional evidence of mechanotransduction in the <i>Drosophila suzukii</i> ovipositor. <i>Journal of Insect Physiology</i> , 2020, 125, 104088.	2.0	22
74	The insect vector <i>Cacopsylla picta</i> vertically transmits the bacterium <i>Candidatus</i> <i>Phytoplasma mali</i> to its progeny. <i>Plant Pathology</i> , 2017, 66, 1015-1021.	2.4	21
75	Fat storage in <i>Drosophila suzukii</i> is influenced by different dietary sugars in relation to their palatability. <i>PLoS ONE</i> , 2017, 12, e0183173.	2.5	21
76	In-vivo two-photon imaging of the honey bee antennal lobe. <i>Biomedical Optics Express</i> , 2010, 2, 131-8.	2.9	20
77	Assemblage of the Egg Parasitoids of the Invasive Stink Bug <i>Halyomorpha halys</i> : Insights on Plant Host Associations. <i>Insects</i> , 2020, 11, 588.	2.2	19
78	In-vivo two-photon imaging of the honey bee antennal lobe. <i>Biomedical Optics Express</i> , 2011, 2, 131.	2.9	18
79	Biological control of <i>Drosophila suzukii</i> : Efficacy of parasitoids, entomopathogenic fungi, nematodes and deterrents of oviposition in laboratory assays. <i>Crop Protection</i> , 2019, 125, 104897.	2.1	18
80	Live Traps for Adult Brown Marmorated Stink Bugs. <i>Insects</i> , 2019, 10, 376.	2.2	18
81	The Competitive Mating of Irradiated Brown Marmorated Stink Bugs, <i>Halyomorpha halys</i> , for the Sterile Insect Technique. <i>Insects</i> , 2019, 10, 411.	2.2	18
82	Genetic variability in Italian populations of <i>Drosophila suzukii</i> . <i>BMC Genetics</i> , 2017, 18, 87.	2.7	16
83	Mating Disruption by Vibrational Signals: State of the Field and Perspectives. <i>Animal Signals and Communication</i> , 2019, , 331-354.	0.8	16
84	<i>Trissolcus japonicus</i> foraging behavior: Implications for host preference and classical biological control. <i>Biological Control</i> , 2021, 161, 104700.	3.0	15
85	Attractiveness of year-old polyethylene Isonet sex pheromone dispensers for <i>Lobesia botrana</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2005, 117, 201-207.	1.4	13
86	Exploitation of the sex pheromone of apple leaf midge <i>Dasineura mali</i> Kieffer (Diptera: Cecidomyiidae): Part 2. Use of sex pheromone traps for pest monitoring. <i>Crop Protection</i> , 2009, 28, 128-133.	2.1	13
87	TRPA5, an Ankyrin Subfamily Insect TRP Channel, is Expressed in Antennae of <i>Cydia pomonella</i> (Lepidoptera: Tortricidae) in Multiple Splice Variants. <i>Journal of Insect Science</i> , 2016, 16, 83.	1.5	13
88	Homologous and heterologous expression of grapevine E-(¹²)-caryophyllene synthase (VvGwECar2). <i>Phytochemistry</i> , 2016, 131, 76-83.	2.9	12
89	Footprints and Ootheca of <i>Lycorma delicatula</i> Influence Host-Searching and -Acceptance of the Egg-Parasitoid <i>Anastatus orientalis</i> . <i>Environmental Entomology</i> , 2019, 48, 1270-1276.	1.4	12
90	Response of the European grapevine moth <i>Lobesia botrana</i> to somatosensory-active volatiles emitted by the non-host plant <i>Perilla frutescens</i> . <i>Physiological Entomology</i> , 2014, 39, 229-236.	1.5	11

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91	Genomic Designing for Biotic Stress Resistant Grapevine. , 2022, , 87-255.		11
92	Importance of psyllids life stage in the epidemiology of apple proliferation phytoplasma. Journal of Pest Science, 2020, 93, 49-61.	3.7	10
93	Vibrational communication and mating behavior of the greenhouse whitefly <i>Trialeurodes vaporariorum</i> (Westwood) (Hemiptera: Aleyrodidae). Scientific Reports, 2021, 11, 6543.	3.3	10
94	Perching Mate-Locating Strategy in <i>Paysandisia archon</i> (Lepidoptera: Castniidae): Behavioral and Morpho-Physiological Investigations. Journal of Economic Entomology, 2014, 107, 1009-1021.	1.8	9
95	Role of Winter Host Plants in Vineyard Colonization and Phenology of <i>Zygina rhamni</i> (Hemiptera: Cicadellidae: Typhlocybinae). Annals of the Entomological Society of America, 2008, 101, 1003-1009.	2.5	8
96	Identification of sex pheromone components in <i>Trissolcus brochymenae</i> females. Journal of Insect Physiology, 2012, 58, 1635-1642.	2.0	8
97	Selection of Lactic Acid Bacteria Species and Strains for Efficient Trapping of <i>Drosophila suzukii</i> . Insects, 2021, 12, 153.	2.2	8
98	Attraction of Egg Parasitoids <i>Trissolcus mitsukurii</i> and <i>Trissolcus japonicus</i> to the chemical cues of <i>Halyomorpha halys</i> and <i>Nezara viridula</i> . Insects, 2022, 13, 439.	2.2	8
99	Olfactory activity of ethyl (E,Z)-2,4-decadienoate on adult oriental fruit moths. Canadian Entomologist, 2010, 142, 481-488.	0.8	7
100	Liquid Baits with <i>Oenococcus oeni</i> Increase Captures of <i>Drosophila suzukii</i> . Insects, 2021, 12, 66.	2.2	7
101	Behavioral Manipulation for Pest Control. Insects, 2021, 12, 287.	2.2	6
102	Chemosensory Receptors in the Larval Maxilla of <i>Papilio hospiton</i> . Frontiers in Ecology and Evolution, 2022, 9, .	2.2	6
103	Linking omics and ecology to dissect interactions between the apple proliferation phytoplasma and its psyllid vector <i>Cacopsylla melanoneura</i> . Insect Biochemistry and Molecular Biology, 2020, 127, 103474.	2.7	5
104	Monitoring 2.0: Update on the <i>Halyomorpha halys</i> Invasion of Trentino. ISPRS International Journal of Geo-Information, 2019, 8, 564.	2.9	4
105	Brown marmorated stink bug (<i>Halyomorpha halys</i>) feeding damage determines early drop in olive crops. Journal of Applied Entomology, 0, , .	1.8	4
106	Sex Pheromones of Two Leafminer Species, <i>Antispila oinophylla</i> and <i>Holocacista rivillei</i> (Lepidoptera:) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	1.8	3
107	Reduction of Post-Harvest Injuries Caused by <i>Drosophila suzukii</i> in Some Cultivars of Sweet Cherries Using a High Carbon Dioxide Level and Cold Storage. Insects, 2021, 12, 1009.	2.2	3
108	Effect of deltamethrin incorporated nets on mobility and survivorship of <i>Halyomorpha halys</i> (Hemiptera: Pentatomidae) adults and nymphs in the laboratory. Journal of Applied Entomology, 2020, 144, 589-597.	1.8	2

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109	Electrophysiological Responses of the Mediterranean Fruit Fly, <i>Ceratitis capitata</i> , to the Cera Trap® Lure: Exploring Released Antennally-Active Compounds. <i>Journal of Chemical Ecology</i> , 2021, 47, 265-279.	1.8	2
110	Trapping Brown Marmorated Stink Bugs: “The NazgÛl” Lure and Kill Nets. <i>Insects</i> , 2019, 10, 433.	2.2	1
111	Un nuovo ed efficace attrattivo per la cattura di <i>Drosophila Suzukii</i> basato su ceppi di oenococcus oeni. , 2015, , .		0