

Frédéric Marion-Poll

List of Publications by Year in descending order

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82
papers

3,139
citations

159585

30
h-index

175258

52
g-index

86
all docs

86
docs citations

86
times ranked

2420
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Throughput Feeding Bioassay for Lepidoptera Larvae. <i>Journal of Chemical Ecology</i> , 2021, 47, 642-652.	1.8	3
2	Soft Selective Sweep on Chemosensory Genes Correlates with Ancestral Preference for Toxic Noni in a Specialist <i>Drosophila</i> Population. <i>Genes</i> , 2021, 12, 32.	2.4	9
3	The Gustatory System in Insects. , 2020, , 148-168.		2
4	Frontiers in Invertebrate Physiology – An Update to the Grand Challenge. <i>Frontiers in Physiology</i> , 2020, 11, 186.	2.8	1
5	Autofluorescence-Based Identification and Functional Validation of Antennal Gustatory Sensilla in a Specialist Leaf Beetle. <i>Frontiers in Physiology</i> , 2019, 10, 343.	2.8	10
6	Transgenerational effects from single larval exposure to azadirachtin on life history and behavior traits of <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2019, 9, 17015.	3.3	16
7	LPS perception through taste-induced reflex in <i>Drosophila melanogaster</i> . <i>Journal of Insect Physiology</i> , 2019, 112, 39-47.	2.0	12
8	Olfactory cues play a significant role in removing fungus from the body surface of <i>Drosophila melanogaster</i> . <i>Journal of Invertebrate Pathology</i> , 2018, 151, 144-150.	3.2	19
9	Editorial: Function and Regulation of Chemoreceptors. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 496.	3.7	8
10	Repellent activity of plants from the genus <i>Chenopodium</i> to <i>Ostrinia nubilalis</i> larvae. <i>Plant Protection Science</i> , 2018, 54, 265-271.	1.4	4
11	A mechanosensory receptor required for food texture detection in <i>Drosophila</i> . <i>Nature Communications</i> , 2017, 8, 14192.	12.8	73
12	Hornets Have It: A Conserved Olfactory Subsystem for Social Recognition in Hymenoptera?. <i>Frontiers in Neuroanatomy</i> , 2017, 11, 48.	1.7	22
13	The gram-negative sensing receptor PGRP-LC contributes to grooming induction in <i>Drosophila</i> . <i>PLoS ONE</i> , 2017, 12, e0185370.	2.5	12
14	The role of contact chemoreception in the host location process of an egg parasitoid. <i>Journal of Insect Physiology</i> , 2016, 91-92, 63-75.	2.0	12
15	Leucokinin mimetic elicits aversive behavior in mosquito <i>Aedes aegypti</i> (L.) and inhibits the sugar taste neuron. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6880-6885.	7.1	41
16	Immediate perception of a reward is distinct from the reward's long-term salience. <i>ELife</i> , 2016, 5, .	6.0	8
17	<i>Drosophila</i> Bitter Taste(s). <i>Frontiers in Integrative Neuroscience</i> , 2015, 9, 58.	2.1	45
18	Dual Mechanism for Bitter Avoidance in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2015, 35, 3990-4004.	3.6	87

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19	Antennal gustatory perception and behavioural responses in <i>Trissolcus brochymenae</i> females. <i>Journal of Insect Physiology</i> , 2015, 78, 15-25.	2.0	4
20	Hygienic grooming is induced by contact chemicals in <i>Drosophila melanogaster</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 254.	2.0	60
21	Identification of taste receptors and proteomic characterization of the antenna and legs of <i>Trialeurodes vaporariorum</i> , a stored food product pest. <i>Insect Molecular Biology</i> , 2014, 23, 1-12.	2.0	16
22	Function and central projections of gustatory receptor neurons on the antenna of the noctuid moth <i>Spodoptera littoralis</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 403-416.	1.6	26
23	Orientation of European corn borer first instar larvae to synthetic green leaf volatiles. <i>Journal of Applied Entomology</i> , 2013, 137, 234-240.	1.8	28
24	Study on cheliceral sensilla of the brown dog tick <i>Rhipicephalus sanguineus</i> (Latreille, 1806) (Acari: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	15
25	Gustatory Sensing Mechanism Coding for Multiple Oviposition Stimulants in the Swallowtail Butterfly, <i>Papilio Xuthus</i> . <i>Journal of Neuroscience</i> , 2013, 33, 914-924.	3.6	25
26	Two sugar isomers influence host plant acceptance by a cereal caterpillar pest. <i>Bulletin of Entomological Research</i> , 2013, 103, 20-28.	1.0	13
27	Glucose Is Required for L-Canavanine Detection in <i>Drosophila</i> . <i>PLoS ONE</i> , 2013, 8, e63484.	2.5	19
28	Chapitre 23. L'insecte au contact des plantes. , 2013, , 347-368.		2
29	Chapitre 8. La réception sensorielle chez les insectes. , 2013, , 137-149.		0
30	The use of the sex pheromone as an evolutionary solution to food source selection in caterpillars. <i>Nature Communications</i> , 2012, 3, 1047.	12.8	70
31	Detection of phytoecdysteroids by gustatory sensilla on chelicerae of the brown dog tick <i>Rhipicephalus sanguineus</i> . <i>Physiological Entomology</i> , 2012, 37, 241-249.	1.5	4
32	Brief Exposure to Sensory Cues Elicits Stimulus-Nonspecific General Sensitization in an Insect. <i>PLoS ONE</i> , 2012, 7, e34141.	2.5	30
33	Frontiers in Invertebrate Physiology â€“ Grand Challenge. <i>Frontiers in Physiology</i> , 2011, 2, 38.	2.8	1
34	Peripheral, Central and Behavioral Responses to the Cuticular Pheromone Bouquet in <i>Drosophila melanogaster</i> Males. <i>PLoS ONE</i> , 2011, 6, e19770.	2.5	19
35	Gustatory perception of phytoecdysteroids in <i>Plodia interpunctella</i> larvae. <i>Entomologia Experimentalis Et Applicata</i> , 2011, 138, 33-39.	1.4	10
36	A gustatory receptor involved in host plant recognition for oviposition of a swallowtail butterfly. <i>Nature Communications</i> , 2011, 2, 542.	12.8	83

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37	Consumption of Bitter Alkaloids in <i>Drosophila melanogaster</i> in Multiple-Choice Test Conditions. <i>Chemical Senses</i> , 2011, 36, 323-334.	2.0	54
38	Appetitive and Aversive Learning in <i>Spodoptera littoralis</i> Larvae. <i>Chemical Senses</i> , 2011, 36, 725-731.	2.0	29
39	Parallel Reinforcement Pathways for Conditioned Food Aversions in the Honeybee. <i>Current Biology</i> , 2010, 20, 2234-2240.	3.9	152
40	Water Taste Transduction Pathway Is Calcium Dependent in <i>Drosophila</i> . <i>Chemical Senses</i> , 2009, 34, 441-449.	2.0	11
41	Pulsed Odors from Maize or Spinach Elicit Orientation in European Corn Borer Neonate Larvae. <i>Journal of Chemical Ecology</i> , 2009, 35, 1032-1042.	1.8	28
42	Tarsal taste sensilla of the autumn gum moth, <i>Mnesampela privata</i> : morphology and electrophysiological activity. <i>Entomologia Experimentalis Et Applicata</i> , 2009, 133, 186-192.	1.4	16
43	Hedonic Taste in <i>Drosophila</i> Revealed by Olfactory Receptors Expressed in Taste Neurons. <i>PLoS ONE</i> , 2008, 3, e2610.	2.5	24
44	Electrophysiological Characterization of Responses from Gustatory Receptor Neurons of sensilla chaetica in the Moth <i>Heliothis virescens</i> . <i>Chemical Senses</i> , 2007, 32, 863-879.	2.0	45
45	Gustatory neurons expressing olfactory receptors taste odors in <i>Drosophila</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, S97-S98.	1.8	0
46	Do European Corn Borer Females Detect and Avoid Laying Eggs in the Presence of 20-Hydroxyecdysone?. <i>Journal of Chemical Ecology</i> , 2007, 33, 1393-1404.	1.8	23
47	An Inhibitory Sex Pheromone Tastes Bitter for <i>Drosophila</i> Males. <i>PLoS ONE</i> , 2007, 2, e661.	2.5	125
48	Sexual dimorphism of antennal, tarsal and ovipositor chemosensilla in the African stemborer, <i>Busseola fusca</i> (Fuller) (Lepidoptera: Noctuidae). <i>Annales De La Societe Entomologique De France</i> , 2006, 42, 403-412.	0.9	17
49	20-Hydroxyecdysone Deters Oviposition and Larval Feeding in the European Grapevine Moth, <i>Lobesia botrana</i> . <i>Journal of Chemical Ecology</i> , 2006, 32, 2443-2454.	1.8	31
50	Within-species variability of the response to 20-hydroxyecdysone in peach potato aphid (<i>Myzus persicae</i>). <i>Journal of Chemical Ecology</i> , 2006, 32, 2455-2464.	2.0	9
51	High Genetic Variability of Herbivore-Induced Volatile Emission within a Broad Range of Maize Inbred Lines. <i>Plant Physiology</i> , 2004, 135, 1928-1938.	4.8	283
52	Two antagonistic gustatory receptor neurons responding to sweet-salty and bitter taste in <i>Drosophila</i> . <i>Journal of Neurobiology</i> , 2004, 61, 333-342.	3.6	135
53	Peripheral coding of bitter taste in <i>Drosophila</i> . <i>Journal of Neurobiology</i> , 2003, 56, 139-152.	3.6	197
54	Estimation of the Individual Firing Frequencies of Two Neurons Recorded with a Single Electrode. <i>Chemical Senses</i> , 2003, 28, 671-679.	2.0	33

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55	Differentiated Response to Sugars among Labellar Chemosensilla in <i>Drosophila</i> . <i>Zoological Science</i> , 2002, 19, 1009-1018.	0.7	145
56	Taste detection of phytoecdysteroids in larvae of <i>Bombyx mori</i> , <i>Spodoptera littoralis</i> and <i>Ostrinia nubilalis</i> . <i>Journal of Insect Physiology</i> , 2002, 48, 467-476.	2.0	51
57	Detection of Physiologically Active Flower Volatiles Using Gas Chromatography Coupled with Electroantennography. , 2002, , 173-198.		62
58	Electrophysiological responses of female <i>Helicoverpa armigera</i> (Hübner) (Lepidoptera; Noctuidae) to synthetic host odours. <i>Journal of Insect Physiology</i> , 2001, 47, 509-514.	2.0	44
59	Biogenic Amines Modulate Olfactory Receptor Neurons Firing Activity in <i>Mamestra brassicae</i> . <i>Chemical Senses</i> , 2001, 26, 653-661.	2.0	76
60	Sex-specific non-pheromonal taste receptors in <i>Drosophila</i> . <i>Current Biology</i> , 2000, 10, 1583-1586.	3.9	69
61	Electrophysiological responses of gustatory sensilla of <i>Mamestra brassicae</i> (Lepidoptera, Noctuidae) larvae to three ecdysteroids: ecdysone, 20-hydroxyecdysone and ponasterone A. <i>Journal of Insect Physiology</i> , 1999, 45, 871-876.	2.0	35
62	Electroantennogram responses of Douglas-fir seed chalcids to plant volatiles. <i>Journal of Insect Physiology</i> , 1998, 44, 483-490.	2.0	22
63	Preliminary electrophysiological study of the contact chemoreceptors in a spider. <i>Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie</i> , 1998, 321, 463-469.	0.8	7
64	A New Method to Improve Olfactory Responses to GC Effluents. <i>Chemical Senses</i> , 1998, 23, 647-652.	2.0	5
65	Effect of Conditioning on Discrimination of Oilseed Rape Volatiles by the Honeybee: Use of a Combined Gas Chromatography-Proboscis Extension Behavioural Assay. <i>Chemical Senses</i> , 1997, 22, 391-398.	2.0	27
66	Identification of Floral Volatiles Involved in Recognition of Oilseed Rape Flowers, <i>Brassica napus</i> by Honeybees, <i>Apis mellifera</i> . <i>Journal of Chemical Ecology</i> , 1997, 23, 1715-1727.	1.8	98
67	Discrimination of oilseed rape volatiles by the honeybee: combined chemical and biological approaches. <i>Entomologia Experimentalis Et Applicata</i> , 1997, 83, 87-92.	1.4	20
68	Terpene variations in maritime pine constitutive oleoresin related to host tree selection by <i>Dioryctria sylvestrella</i> RATZ. (Lepidoptera: Pyralidae). <i>Journal of Chemical Ecology</i> , 1996, 22, 1037-1050.	1.8	40
69	Unfiltered recordings from insect taste sensilla. <i>Entomologia Experimentalis Et Applicata</i> , 1996, 80, 113-115.	1.4	60
70	Display and analysis of electrophysiological data under Windows, etc. <i>Entomologia Experimentalis Et Applicata</i> , 1996, 80, 116-119.	1.4	38
71	Dynamics of EAG responses to host-plant volatiles delivered by a gas chromatograph. <i>Entomologia Experimentalis Et Applicata</i> , 1996, 80, 120-123.	1.4	11
72	Un-filtered recordings from insect taste sensilla. , 1996, , 113-115.		4

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73	Display and analysis of electrophysiological data under Windows TM. , 1996, , 116-119.		2
74	Dynamics of EAG responses to host-plant volatiles delivered by a gas Chromatograph. , 1996, , 120-123.		3
75	Object-oriented approach to fast display of electrophysiological data under MS-Windowsâ„¢. Journal of Neuroscience Methods, 1995, 63, 197-204.	2.5	41
76	Discrimination of oilseed rape volatiles by honey bee: Novel combined gas chromatographic-electrophysiological behavioral assay. Journal of Chemical Ecology, 1994, 20, 3221-3231.	1.8	43
77	Temporal coding of pheromone pulses and trains in <i>Manduca sexta</i> . Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1992, 171, 505-12.	1.6	62
78	Floral volatiles of <i>Tanacetum vulgare</i> L. attractive to <i>Lobesia botrana</i> den. et schiff. females. Journal of Chemical Ecology, 1992, 18, 693-701.	1.8	68
79	Real-time detection and analysis of the exploratory behavior of small animals. Die Naturwissenschaften, 1992, 79, 39-42.	1.6	12
80	Sexual dimorphism of tarsal receptors and sensory equipment of the ovipositor in the European corn borer, <i>Ostrinia nubilalis</i> . Cell and Tissue Research, 1992, 267, 507-518.	2.9	29
81	Software filter for detecting spikes superimposed on a fluctuating baseline. Journal of Neuroscience Methods, 1991, 37, 1-6.	2.5	30
82	Changes of electric patterns related to feeding in a mesophyll feeding leafhopper. Entomologia Experimentalis Et Applicata, 1987, 43, 115-124.	1.4	14