FrÃ©dÃ©ric Marion-Poll

List of Publications by Year
in descending order

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 Genetic Variability of Herbivore-Induced Volatile Emission within a Broad Range of Maize Inbred Lines. Plant Physiology, 2004, 135, 1928-1938.	4.8	283
2	Peripheral coding of bitter taste inDrosophila. Journal of Neurobiology, 2003, 56, 139-152.	3.6	197
3	Parallel Reinforcement Pathways for Conditioned Food Aversions in the Honeybee. Current Biology, 2010, 20, 2234-2240.	3.9	152
4	Differentiated Response to Sugars among Labellar Chemosensilla in Drosophila. Zoological Science, 2002, 19, 1009-1018.	0.7	145
5	Two antagonistic gustatory receptor neurons responding to sweet-salty and bitter taste inDrosophila. Journal of Neurobiology, 2004, 61, 333-342.	3.6	135
6	An Inhibitory Sex Pheromone Tastes Bitter for Drosophila Males. PLoS ONE, 2007, 2, e661.	2.5	125
7	Identification of Floral Volatiles Involved in Recognition of Oilseed Rape Flowers, Brassica napus by Honeybees, Apis mellifera. Journal of Chemical Ecology, 1997, 23, 1715-1727.	1.8	98
8	Dual Mechanism for Bitter Avoidance inDrosophila. Journal of Neuroscience, 2015, 35, 3990-4004.	3.6	87
9	A gustatory receptor involved in host plant recognition for oviposition of a swallowtail butterfly. Nature Communications, 2011, 2, 542.	12.8	83
10	Biogenic Amines Modulate Olfactory Receptor Neurons Firing Activity in Mamestra brassicae. Chemical Senses, 2001, 26, 653-661.	2.0	76
11	A mechanosensory receptor required for food texture detection in Drosophila. Nature Communications, 2017, 8, 14192.	12.8	73
12	The use of the sex pheromone as an evolutionary solution to food source selection in caterpillars. Nature Communications, 2012, 3, 1047.	12.8	70
13	Sex-specific non-pheromonal taste receptors in Drosophila. Current Biology, 2000, 10, 1583-1586.	3.9	69
14	Floral volatiles ofTanacetum vulgare L. attractive toLobesia botrana den. et schiff. females. Journal of Chemical Ecology, 1992, 18, 693-701.	1.8	68
15	Temporal coding of pheromone pulses and trains in Manduca sexta. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1992, 171, 505-12.	1.6	62
16	Detection of Physiologically Active Flower Volatiles Using Gas Chromatography Coupled with Electroantennography. , 2002, , 173-198.		62
17	Unâ€filtered recordings from insect taste sensilla. Entomologia Experimentalis Et Applicata, 1996, 80, 113-115.	1.4	60
18	Hygienic grooming is induced by contact chemicals in Drosophila melanogaster. Frontiers in Behavioral Neuroscience, 2014, 8, 254.	2.0	60

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19	Consumption of Bitter Alkaloids in Drosophila melanogaster in Multiple-Choice Test Conditions. Chemical Senses, 2011, 36, 323-334.	2.0	54
20	Taste detection of phytoecdysteroids in larvae of Bombyx mori, Spodoptera littoralis and Ostrinia nubilalis. Journal of Insect Physiology, 2002, 48, 467-476.	2.0	51
21	Electrophysiological Characterization of Responses from Gustatory Receptor Neurons of sensilla chaetica in the Moth Heliothis virescens. Chemical Senses, 2007, 32, 863-879.	2.0	45
22	Drosophila Bitter Taste(s). Frontiers in Integrative Neuroscience, 2015, 9, 58.	2.1	45
23	Electrophysiological responses of female Helicoverpa armigera (HÃ¼bner) (Lepidoptera; Noctuidae) to synthetic host odours. Journal of Insect Physiology, 2001, 47, 509-514.	2.0	44
24	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
25	Object-oriented approach to fast display of electrophysiological data under MS-Windowsâ„¢. Journal of Neuroscience Methods, 1995, 63, 197-204.	2.5	41
26	Leucokinin mimetic elicits aversive behavior in mosquito Aedes aegypti (L.) and inhibits the sugar taste neuron. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6880-6885.	7.1	41
27	Terpene variations in maritime pine constitutive oleoresin related to host tree selection byDioryctria sylvestrella RATZ. (Lepidoptera: Pyralidae). Journal of Chemical Ecology, 1996, 22, 1037-1050.	1.8	40
28	Display and analysis of electrophysiological data under Windowsâ„¢. Entomologia Experimentalis Et Applicata, 1996, 80, 116-119.	1.4	38
29	Electrophysiological responses of gustatory sensilla of Mamestra brassicae (Lepidoptera, Noctuidae) larvae to three ecdysteroids: ecdysone, 20-hydroxyecdysone and ponasterone A. Journal of Insect Physiology, 1999, 45, 871-876.	2.0	35
30	Estimation of the Individual Firing Frequencies of Two Neurons Recorded with a Single Electrode. Chemical Senses, 2003, 28, 671-679.	2.0	33
31	20-Hydroxyecdysone Deters Oviposition and Larval Feeding in the European Grapevine Moth, Lobesia botrana. Journal of Chemical Ecology, 2006, 32, 2443-2454.	1.8	31
32	Software filter for detecting spikes superimposed on a fluctuating baseline. Journal of Neuroscience Methods, 1991, 37, 1-6.	2.5	30
33	Brief Exposure to Sensory Cues Elicits Stimulus-Nonspecific General Sensitization in an Insect. PLoS ONE, 2012, 7, e34141.	2.5	30
34	Sexual dimorphism of tarsal receptors and sensory equipment of the ovipositor in the European corn borer, Ostrinia nubilalis. Cell and Tissue Research, 1992, 267, 507-518.	2.9	29
35	Appetitive and Aversive Learning in Spodoptera littoralis Larvae. Chemical Senses, 2011, 36, 725-731.	2.0	29
36	Pulsed Odors from Maize or Spinach Elicit Orientation in European Corn Borer Neonate Larvae. Journal of Chemical Ecology, 2009, 35, 1032-1042.	1.8	28

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37	Orientation of European corn borer first instar larvae to synthetic green leaf volatiles. Journal of Applied Entomology, 2013, 137, 234-240.	1.8	28
38	Effect of Conditioning on Discrimination of Oilseed Rape Volatiles by the Honeybee: Use of a Combined Gas Chromatography-Proboscis Extension Behavioural Assay. Chemical Senses, 1997, 22, 391-398.	2.0	27
39	Function and central projections of gustatory receptor neurons on the antenna of the noctuid moth Spodoptera littoralis. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 403-416.	1.6	26
40	Gustatory Sensing Mechanism Coding for Multiple Oviposition Stimulants in the Swallowtail Butterfly,Papilio Xuthus. Journal of Neuroscience, 2013, 33, 914-924.	3.6	25
41	Hedonic Taste in Drosophila Revealed by Olfactory Receptors Expressed in Taste Neurons. PLoS ONE, 2008, 3, e2610.	2.5	24
42	Do European Corn Borer Females Detect and Avoid Laying Eggs in the Presence of 20-Hydroxyecdysone?. Journal of Chemical Ecology, 2007, 33, 1393-1404.	1.8	23
43	Electroantennogram responses of Douglas-fir seed chalcids to plant volatiles. Journal of Insect Physiology, 1998, 44, 483-490.	2.0	22
44	Hornets Have It: A Conserved Olfactory Subsystem for Social Recognition in Hymenoptera?. Frontiers in Neuroanatomy, 2017, 11, 48.	1.7	22
45	Discrimination of oilseed rape volatiles by the honeybee: combined chemical and biological approaches. Entomologia Experimentalis Et Applicata, 1997, 83, 87-92.	1.4	20
46	Peripheral, Central and Behavioral Responses to the Cuticular Pheromone Bouquet in Drosophila melanogaster Males. PLoS ONE, 2011, 6, e19770.	2.5	19
47	GÎ±o Is Required for L-Canavanine Detection in Drosophila. PLoS ONE, 2013, 8, e63484.	2.5	19
48	Olfactory cues play a significant role in removing fungus from the body surface of Drosophila melanogaster. Journal of Invertebrate Pathology, 2018, 151, 144-150.	3.2	19
49	Sexual dimorphism of antennal, tarsal and ovipositor chemosensilla in the African stemborer,Busseola fusca(Fuller) (Lepidoptera: Noctuidae). Annales De La Societe Entomologique De France, 2006, 42, 403-412.	0.9	17
50	Tarsal taste sensilla of the autumn gum moth, Mnesampela privata: morphology and electrophysiological activity. Entomologia Experimentalis Et Applicata, 2009, 133, 186-192.	1.4	16
51	Identification of taste receptors and proteomic characterization of the antenna and legs of <scp>T</scp>ribolium brevicornis, a stored food product pest. Insect Molecular Biology, 2014, 23, 1-12.	2.0	16
52	Transgenerational effects from single larval exposure to azadirachtin on life history and behavior traits of Drosophila melanogaster. Scientific Reports, 2019, 9, 17015.	3.3	16
53	Study on cheliceral sensilla of the brown dog tick Rhipicephalus sanguineus (Latreille, 1806) (Acari:) Tj ETQq1 1 0.784314 rgBT /Overl	2.0	15
54	Changes of electric patterns related to feeding in a mesophyll feeding leafhopper. Entomologia Experimentalis Et Applicata, 1987, 43, 115-124.	1.4	14

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55	Two sugar isomers influence host plant acceptance by a cereal caterpillar pest. Bulletin of Entomological Research, 2013, 103, 20-28.	1.0	13
56	Real-time detection and analysis of the exploratory behavior of small animals. Die Naturwissenschaften, 1992, 79, 39-42.	1.6	12
57	The role of contact chemoreception in the host location process of an egg parasitoid. Journal of Insect Physiology, 2016, 91-92, 63-75.	2.0	12
58	The gram-negative sensing receptor PGRP-LC contributes to grooming induction in Drosophila. PLoS ONE, 2017, 12, e0185370.	2.5	12
59	LPS perception through taste-induced reflex in Drosophila melanogaster. Journal of Insect Physiology, 2019, 112, 39-47.	2.0	12
60	Dynamics of EAG responses to hostâ€plant volatiles delivered by a gas chromatograph. Entomologia Experimentalis Et Applicata, 1996, 80, 120-123.	1.4	11
61	Water Taste Transduction Pathway Is Calcium Dependent in Drosophila. Chemical Senses, 2009, 34, 441-449.	2.0	11
62	Gustatory perception of phytoecdysteroids in Plodia interpunctella larvae. Entomologia Experimentalis Et Applicata, 2011, 138, 33-39.	1.4	10
63	Autofluorescence-Based Identification and Functional Validation of Antennal Gustatory Sensilla in a Specialist Leaf Beetle. Frontiers in Physiology, 2019, 10, 343.	2.8	10
64	Within-species variability of the response to 20-hydroxyecdysone in peachâ€“potato aphid (Myzus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.0	9
65	Soft Selective Sweep on Chemosensory Genes Correlates with Ancestral Preference for Toxic Noni in a Specialist Drosophila Population. Genes, 2021, 12, 32.	2.4	9
66	Editorial: Function and Regulation of Chemoreceptors. Frontiers in Cellular Neuroscience, 2018, 12, 496.	3.7	8
67	Immediate perception of a reward is distinct from the rewardâ€™s long-term salience. ELife, 2016, 5, .	6.0	8
68	Preliminary electrophysiological study of the contact chemoreceptors in a spider. Comptes Rendus De L'AcadÃ©mie Des Sciences SÃ©rie 3, Sciences De La Vie, 1998, 321, 463-469.	0.8	7
69	A New Method to Improve Olfactory Responses to GC Effluents. Chemical Senses, 1998, 23, 647-652.	2.0	5
70	Detection of phytoecdysteroids by gustatory sensilla on chelicerae of the brown dog tick Rhipicephalus sanguineus. Physiological Entomology, 2012, 37, 241-249.	1.5	4
71	Antennal gustatory perception and behavioural responses in Trissolcus brochymenae females. Journal of Insect Physiology, 2015, 78, 15-25.	2.0	4
72	Repellent activity of plants from the genus Chenopodium to Ostrinia nubilalis larvae. Plant Protection Science, 2018, 54, 265-271.	1.4	4

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73	Un-filtered recordings from insect taste sensilla. , 1996, , 113-115.		4
74	High-Throughput Feeding Bioassay for Lepidoptera Larvae. Journal of Chemical Ecology, 2021, 47, 642-652.	1.8	3
75	Dynamics of EAG responses to host-plant volatiles delivered by a gas Chromatograph. , 1996, , 120-123.		3
76	The Gustatory System in Insects. , 2020, , 148-168.		2
77	Display and analysis of electrophysiological data under Windows TM. , 1996, , 116-119.		2
78	Chapitre 23. Lâ€™insecte au contact des plantes. , 2013, , 347-368.		2
79	Frontiers in Invertebrate Physiology â€“ Grand Challenge. Frontiers in Physiology, 2011, 2, 38.	2.8	1
80	Frontiers in Invertebrate Physiologyâ€”An Update to the Grand Challenge. Frontiers in Physiology, 2020, 11, 186.	2.8	1
81	Gustatory neurons expressing olfactory receptors â€œtasteâ€•odors in Drosophila. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, S97-S98.	1.8	0
82	Chapitre 8. La rÃ©ception sensorielle chez les insectes. , 2013, , 137-149.		0