Francesca Romana Dani

List of Publications by Year
in descending order

80 papers	3,915 citations	172457 29 h-index	133252 59 g-index
83 all docs	83 docs citations	83 times ranked	2688 citing authors

#	Article	IF	Citations
1	Beyond chemoreception: diverse tasks of soluble olfactory proteins in insects. Biological Reviews, 2018, 93, 184-200.	10.4	502
2	Soluble proteins of chemical communication: an overview across arthropods. Frontiers in Physiology, 2014, 5, 320.	2.8	398
3	Nestmate Recognition Cues in the Honey Bee: Differential Importance of Cuticular Alkanes and Alkenes. Chemical Senses, 2005, 30, 477-489.	2.0	195
4	Deciphering the recognition signature within the cuticular chemical profile of paper wasps. Animal Behaviour, 2001, 62, 165-171.	1.9	193
5	Soluble proteins of chemical communication in the social wasp Polistes dominulus. Cellular and Molecular Life Sciences, 2003, 60, 1933-1943.	5.4	154
6	Differential Expression of Odorant-Binding Proteins in the Mandibular Glands of the Honey Bee According to Caste and Age. Journal of Proteome Research, 2011, 10, 3439-3449.	3.7	134
7	Odorant-Binding Proteins and Chemosensory Proteins in Pheromone Detection and Release in the Silkmoth Bombyx mori. Chemical Senses, 2011, 36, 335-344.	2.0	134
8	Expression of odorant-binding proteins and chemosensory proteins in some Hymenoptera. Insect Biochemistry and Molecular Biology, 2005, 35, 297-307.	2.7	110
9	Rapid assay of topiramate in dried blood spots by a new liquid chromatography-tandem mass spectrometric method. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 1392-1396.	2.8	87
10	Diversity, abundance, and sex-specific expression of chemosensory proteins in the reproductive organs of the locust <i>Locusta migratoria manilensis</i>. Biological Chemistry, 2013, 394, 43-54.	2.5	83
11	Cooperative interactions between odorant-binding proteins of Anopheles gambiae. Cellular and Molecular Life Sciences, 2011, 68, 1799-1813.	5.4	81
12	Dominulin A and B: Two new antibacterial peptides identified on the cuticle and in the venom of the social paper wasp Polistes dominulus using MALDI-TOF, MALDI-TOF/TOF, and ESI-ion trap. Journal of the American Society for Mass Spectrometry, 2006, 17, 376-383.	2.8	78
13	Conserved chemosensory proteins in the proboscis and eyes of Lepidoptera. International Journal of Biological Sciences, 2016, 12, 1394-1404.	6.4	72
14	Mapping the Expression of Soluble Olfactory Proteins in the Honeybee. Journal of Proteome Research, 2010, 9, 1822-1833.	3.7	70
15	Identification and composition of cuticular hydrocarbons of the major Afrotropical malaria vectorAnopheles gambiae s.s. (Diptera: Culicidae): analysis of sexual dimorphism and age-related changes. Journal of Mass Spectrometry, 2005, 40, 1595-1604.	1.6	68
16	Social Hackers: Integration in the Host Chemical Recognition System by a Paper Wasp Social Parasite. Die Naturwissenschaften, 2000, 87, 172-176.	1.6	66
17	Recognition of social parasites as nest-mates: adoption of colony-specific host cuticular odours by the paper wasp parasite Polistes sulcifer. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 2253-2260.	2.6	66
18	Social dominance molds cuticular and egg chemical blends in a paper wasp. Current Biology, 2007, 17, R504-R505.	3.9	56

#	ARTICLE	IF	CITATIONS
19	Chemical mimicry in an incipient leaf-cutting ant social parasite. Behavioral Ecology and Sociobiology, 2007, 61, 843-851.	1.4	56
20	Can cuticular lipids provide sufficient information for withinâ€“colony nepotism in wasps?. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 745-753.	2.6	54
21	MALDI Mass Spectrometry Imaging, from its Origins up to Today: The State of the Art. Combinatorial Chemistry and High Throughput Screening, 2009, 12, 156-174.	1.1	54
22	Behavioural evidence for the involvement of Dufour's gland secretion in nestmate recognition in the social wasp Polistes dominulus (Hymenoptera: Vespidae). Behavioral Ecology and Sociobiology, 1996, 38, 311-319.	1.4	49
23	Solid-phase Microextraction of Insect Epicuticular Hydrocarbons for Gas Chromatographic/Mass Spectrometric Analysis. , 1997, 11, 857-862.		48
24	Dufour gland secretion of Polistes wasp: Chemical composition and possible involvement in nestmate recognition (Hymenoptera: vespidae). Journal of Insect Physiology, 1996, 42, 541-548.	2.0	47
25	Workers of a Polistes Paper Wasp Detect the Presence of Their Queen by Chemical Cues. Chemical Senses, 2007, 32, 795-802.	2.0	45
26	Proteomic analysis of castor bean tick Ixodes ricinus: a focus on chemosensory organs. Insect Biochemistry and Molecular Biology, 2016, 78, 58-68.	2.7	38
27	A Proteomic Investigation of Soluble Olfactory Proteins in Anopheles gambiae. PLoS ONE, 2013, 8, e75162.	2.5	37
28	Ant repellent effect of the sternal gland secretion ofPolistes dominulus (Christ) andP. sulcifer (Zimmermann). (Hymenoptera: Vespidae). Journal of Chemical Ecology, 1996, 22, 37-48.	1.8	36
29	Comparative analysis of epicuticular lipid profiles of sympatric and allopatric field populations of Anopheles gambiae s.s. molecular forms and An. arabiensis from Burkina Faso (West Africa). Insect Biochemistry and Molecular Biology, 2007, 37, 389-398.	2.7	35
30	Abdomen stroking behaviour and its possible functions in Polistes dominulus (christ) (hymenoptera,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.1	31
31	Volatiles from the venom of five species of paper wasps (Polistes dominulus, P. gallicus, P. nimphus, P.) Tj ETQq1 1 0.784314 rgBT /Ov	1.6	29
32	Polistes dominulus (Hymenoptera: Vespidae) larvae possess their own chemical signatures. Journal of Insect Physiology, 2007, 53, 954-963.	2.0	29
33	Candidate biomarkers for mosquito age-grading identified by label-free quantitative analysis of protein expression in Aedes albopictus females. Journal of Proteomics, 2015, 128, 272-279.	2.4	28
34	Acetonitrile as an Effective Reactant Species for Positive-ion Chemical Ionization of Hydrocarbons by Ion-trap Mass Spectrometry. Rapid Communications in Mass Spectrometry, 1996, 10, 167-170.	1.5	26
35	Proteomic analysis of chemosensory organs in the honey bee parasite Varroa destructor: A comprehensive examination of the potential carriers for semiochemicals. Journal of Proteomics, 2018, 181, 131-141.	2.4	26
36	Chemical characterization of the alarm pheromone in the venom of Polybia occidentalis and of volatiles from the venom of P. sericea. Physiological Entomology, 2000, 25, 363-369.	1.5	26

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37	Venom induces alarm behaviour in the social wasp Polybioides raphigastra (Hymenoptera: Vespidae): an investigation of alarm behaviour, venom volatiles and sting autotomy. Physiological Entomology, 1999, 24, 234-239.	1.5	25
38	Secretory Proteins as Potential Semiochemical Carriers in the Horse. Biochemistry, 2006, 45, 13418-13428.	2.5	25
39	The double nature of 1,5â€diaminonaphthalene as matrixâ€assisted laser desorption/ionization matrix: some experimental evidence of the protonation and reduction mechanisms. Rapid Communications in Mass Spectrometry, 2011, 25, 3091-3096.	1.5	25
40	Natural biocide disrupts nestmate recognition in honeybees. Scientific Reports, 2019, 9, 3171.	3.3	25
41	Nestmate recognition in Parischnogaster striatula (Hymenoptera Stenogastrinae), visual and olfactory recognition cues. Journal of Insect Physiology, 2001, 47, 1013-1020.	2.0	24
42	Odorant-binding protein-based identification of natural spatial repellents for the African malaria mosquito Anopheles gambiae. Insect Biochemistry and Molecular Biology, 2018, 96, 36-50.	2.7	24
43	Exploring Proteins in Anopheles gambiae Male and Female Antennae through MALDI Mass Spectrometry Profiling. PLoS ONE, 2008, 3, e2822.	2.5	24
44	Reevaluation of the chemical secretion of the sternal glands ofPolistessocial wasps (Hymenoptera) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.4	23
45	Why are larvae of the social parasite wasp Polistes sulcifer not removed from the host nest?. Behavioral Ecology and Sociobiology, 2008, 62, 1319-1331.	1.4	23
46	Integration strategies of a leaf-cutting ant social parasite. Animal Behaviour, 2015, 108, 55-65.	1.9	22
47	Caste size differences inPolistes gallicus(L.) (Hymenoptera Vespidae). Ethology Ecology and Evolution, 1994, 6, 67-73.	1.4	21
48	Species-Specific Volatile Substances in the Venom Sac of Hover Wasps. Journal of Chemical Ecology, 1998, 24, 1091-1104.	1.8	21
49	Chemical nestmate recognition in a stenogastrine wasp,<i>Liostenogaster flavolineata</i>(Hymenoptera Vespidae). Ethology Ecology and Evolution, 2002, 14, 351-363.	1.4	21
50	Habitually used hibernation sites of paper wasps are marked with venom and cuticular peptides. Current Biology, 2006, 16, R530-R531.	3.9	21
51	Chemical disguise of myrmecophilous cockroaches and its implications for understanding nestmate recognition mechanisms in leaf-cutting ants. BMC Ecology, 2016, 16, 35.	3.0	20
52	Sampling techniques for gas chromatographicâ€"mass spectrometric analysis of long-chain free fatty acids from insect exocrine glands. Journal of Chromatography A, 1998, 816, 169-175.	3.7	19
53	Chemistry, ontogeny, and role of pygidial gland secretions of the vinegaroon Mastigoproctus giganteus (Arachnida: Uropygi). Journal of Insect Physiology, 2000, 46, 443-450.	2.0	18
54	Alarm communication in Ropalidia social wasps. Insectes Sociaux, 2004, 51, 299.	1.2	18

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55	Antennal Protein Profile in Honeybees: Caste and Task Matter More Than Age. Frontiers in Physiology, 2018, 9, 748.	2.8	18
56	Epicuticular lipids and fertility in primitively social wasps (Hymenoptera Stenogastrinae). Physiological Entomology, 2004, 29, 464-471.	1.5	17
57	Chemical analysis of sternal gland secretion of paper waspPolistes dominulus (Christ) and its social parasitePolistes sulcifer (Zimmermann) (Hymenoptera: Vespidae). Journal of Chemical Ecology, 1995, 21, 1709-1718.	1.8	16
58	Increased immunocompetence and network centrality of allogroomer workers suggest a link between individual and social immunity in honeybees. Scientific Reports, 2020, 10, 8928.	3.3	16
59	Dufour gland contents of ants of the Cataglyphis bicolor group. Journal of Chemical Ecology, 2002, 28, 71-87.	1.8	15
60	Chemical Communication and Reproduction Partitioning in Social Wasps. Journal of Chemical Ecology, 2018, 44, 796-804.	1.8	15
61	Nestmate recognition in three species of stenogastrine wasps (Hymenoptera, Vespidae). Behavioral Ecology and Sociobiology, 1996, 39, 311-316.	1.4	14
62	Chemical analysis of the swarming trail pheromone of the social wasp Polybia sericea (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.0	13
63	Polistes dominulus (Hymenoptera, Vespidae) Larvae Show Different Cuticular Patterns According to their Sex: Workers Seem Not Use This Chemical Information. Chemical Senses, 2008, 34, 195-202.	2.0	13
64	A novel protein from the serum of Python sebae, structurally homologous with type-Î³ phospholipase A2 inhibitor, displays antitumour activity. Biochemical Journal, 2011, 440, 251-262.	3.7	13
65	Profiles of soluble proteins in chemosensory organs of three members of the afro-tropical Anopheles gambiae complex. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2017, 24, 41-50.	1.0	12
66	Chemosensory Proteins: A Versatile Binding Family. , 2019, , 147-169.		12
67	(Z)-3-hexenyl (R)-3-hydroxybutanoate: a male specific compound in three North American decorator wasps Eucerceris rubripes, E. conata and E. tricolor. Journal of Chemical Ecology, 2001, 27, 1437-1447.	1.8	10
68	Can venom volatiles be a taxonomic tool for Polistes wasps (Hymenoptera, Vespidae)?. Journal of Zoological Systematics and Evolutionary Research, 2007, 45, 202-205.	1.4	10
69	Timing matters when assessing dominance and chemical signatures in the paper wasp Polistes dominulus. Behavioral Ecology and Sociobiology, 2010, 64, 1363-1365.	1.4	10
70	Using Errors by Guard Honeybees (<i>Apis mellifera</i>) to Gain New Insights into Nestmate Recognition Signals. Chemical Senses, 2015, 40, 649-653.	2.0	10
71	Intra and inter-specific relationships in a cluster of stenogastrine wasp colonies (Hymenoptera) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.4	9
72	Sexual and individual cues in the peri-anal gland secretum of crested porcupines (Hystrix cristata). Mammalian Biology, 2009, 74, 488-496.	1.5	7

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73	The Odorant-Binding Proteins of the Spider Mite Tetranychus urticae. International Journal of Molecular Sciences, 2021, 22, 6828.	4.1	7
74	Semiochemicals for intraspecific communication of the fig weevil Aclees sp. cf. foveatus (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.3	6
75	Lipocalins in Arthropod Chemical Communication. Genome Biology and Evolution, 2021, 13, .	2.5	6
76	Soil microbiome biomass, activity, composition and <scp>CO₂</scp> emissions in a longâ€term organic and conventional farming systems. Soil Use and Management, 2023, 39, 588-605.	4.9	6
77	Proteinase pattern of honeybee prepupae from healthy and American Foulbrood infected bees investigated by zymography. Electrophoresis, 2018, 39, 2160-2167.	2.4	5
78	Proteomics of arthropod soluble olfactory proteins. Methods in Enzymology, 2020, 642, 81-102.	1.0	3
79	Preliminary note onPolistes atrimandibularis, the social parasite ofPolistes gallicus(Hymenoptera) Tj ETQq1 1 0.784314 rgBT /Overlock 1	1.4	0
80	Wide-scale analysis of protein expression in head and thorax of Aedes albopictus females. Journal of Insect Physiology, 2017, 99, 33-38.	2.0	0