Francesco Pennacchio

List of Publications by Year
in descending order

105	6,399	66343	71685
papers	citations	42 h-index	76 g-index

111	111	111	7067
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neonicotinoid clothianidin adversely affects insect immunity and promotes replication of a viral pathogen in honey bees. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18466-18471.	7.1	531
2	EVOLUTION OF DEVELOPMENTAL STRATEGIES IN PARASITIC HYMENOPTERA. Annual Review of Entomology, 2006, 51, 233-258.	11.8	510
3	Synergistic Parasite-Pathogen Interactions Mediated by Host Immunity Can Drive the Collapse of Honeybee Colonies. PLoS Pathogens, 2012, 8, e1002735.	4.7	364
4	Are bee diseases linked to pesticides? â€" A brief review. Environment International, 2016, 89-90, 7-11.	10.0	350
5	Varroa destructor is an effective vector of Israeli acute paralysis virus in the honeybee, Apis mellifera. Journal of General Virology, 2011, 92, 151-155.	2.9	211
6	Strategies Involved in the Location of Hosts by the ParasitoidAphidius erviHaliday (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.0	195
7	A mutualistic symbiosis between a parasitic mite and a pathogenic virus undermines honey bee immunity and health. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3203-3208.	7.1	188
8	Midgut microbiota and host immunocompetence underlie Bacillus thuringiensis killing mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9486-9491.	7.1	144
9	Title is missing!. Journal of Chemical Ecology, 1999, 25, 1247-1261.	1.8	129
10	Transcriptome and Metabolome Reprogramming in Tomato Plants by Trichoderma harzianum strain T22 Primes and Enhances Defense Responses Against Aphids. Frontiers in Physiology, 2019, 10, 745.	2.8	116
11	Host castration by Aphidius ervi venom proteins. Journal of Insect Physiology, 2000, 46, 1041-1050.	2.0	109
12	Transcriptomic and proteomic analysis of a compatible tomato-aphid interaction reveals a predominant salicylic acid-dependent plant response. BMC Genomics, 2013, 14, 515.	2.8	103
13	A Î³-glutamyl transpeptidase of Aphidius ervi venom induces apoptosis in the ovaries of host aphids. Insect Biochemistry and Molecular Biology, 2007, 37, 453-465.	2.7	92
14	Programmed cell death and stem cell differentiation are responsible for midgut replacement in Heliothis virescens during prepupal instar. Cell and Tissue Research, 2007, 330, 345-359.	2.9	91
15	Plant-to-plant communication mediating in-flight orientation of Aphidius ervi. Journal of Chemical Ecology, 2002, 28, 1703-1715.	1.8	88
16	Metabolic and symbiotic interactions in amino acid pools of the pea aphid, Acyrthosiphon pisum, parasitized by the braconid Aphidius ervi. Journal of Insect Physiology, 2002, 48, 507-516.	2.0	85
17	Dynamics of Persistent and Acute Deformed Wing Virus Infections in Honey Bees, Apis mellifera. Viruses, 2011, 3, 2425-2441.	3.3	81
18	Bracoviruses Contain a Large Multigene Family Coding for Protein Tyrosine Phosphatases. Journal of Virology, 2004, 78, 13090-13103.	3.4	79

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19	Can aphid-induced plant signals be transmitted aerially and through the rhizosphere?. Biochemical Systematics and Ecology, 2001, 29, 1063-1074.	1.3	75
20	Disentangling multiple interactions in the hive ecosystem. Trends in Parasitology, 2014, 30, 556-561.	3.3	75
21	Physical and chemical cues influencing the oviposition behaviour of Aphidius ervi. Entomologia Experimentalis Et Applicata, 2000, 94, 219-227.	1.4	74
22	AcMNPV ChiA protein disrupts the peritrophic membrane and alters midgut physiology of Bombyx mori larvae. Insect Biochemistry and Molecular Biology, 2004, 34, 1205-1213.	2.7	74
23	Identification of the main venom protein components of Aphidius ervi, a parasitoid wasp of the aphid model Acyrthosiphon pisum. BMC Genomics, 2014, 15, 342.	2.8	72
24	Host regulation by the aphid parasitoid Aphidius ervi: the role of teratocytes. Entomologia Experimentalis Et Applicata, 2000, 97, 1-9.	1.4	71
25	Trichoderma harzianum enhances tomato indirect defense against aphids. Insect Science, 2017, 24, 1025-1033.	3.0	69
26	Biochemical and metabolic alterations inAcyrthosiphon pisum parasitized byAphidius ervi. Archives of Insect Biochemistry and Physiology, 1995, 30, 351-367.	1.5	68
27	Characterization of the IÎºB-like gene family in polydnaviruses associated with wasps belonging to different Braconid subfamilies. Journal of General Virology, 2007, 88, 92-104.	2.9	66
28	Host regulation effects onHeliothis virescens (F.) larvae inducd by teratocytes ofCardiochiles nigriceps Viereck (Lepidoptera, Noctuidae-Hymenoptera, Braconidae). Archives of Insect Biochemistry and Physiology, 1992, 19, 177-192.	1.5	61
29	Prosystemin Overexpression in Tomato Enhances Resistance to Different Biotic Stresses by Activating Genes of Multiple Signaling Pathways. Plant Molecular Biology Reporter, 2015, 33, 1270-1285.	1.8	56
30	Aphidius ervi teratocytes release an extracellular enolase. Insect Biochemistry and Molecular Biology, 2009, 39, 801-813.	2.7	54
31	Haemolymph removal by Varroa mite destabilizes the dynamical interaction between immune effectors and virus in bees, as predicted by Volterra's model. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190331.	2.6	53
32	Growth and development ofCardiochiles nigriceps viereck (hymenoptera, braconidae) larvae and their synchronization with some changes of the hemolymph composition of their host,Heliothis virescens (F.) (Lepidoptera, Noctuidae). Archives of Insect Biochemistry and Physiology, 1993, 24, 65-77.	1.5	52
33	Trichoderma atroviride P1 Colonization of Tomato Plants Enhances Both Direct and Indirect Defense Barriers Against Insects. Frontiers in Physiology, 2019, 10, 813.	2.8	51
34	The role of physical cues in the regulation of host recognition and acceptance behavior ofAphidius ervi Haliday (Hymenoptera: Braconidae). Journal of Insect Behavior, 1995, 8, 739-750.	0.7	50
35	Plant-to-plant communication triggered by systemin primes anti-herbivore resistance in tomato. Scientific Reports, 2017, 7, 15522.	3.3	50
36	Pea aphid clonal resistance to the endophagous parasitoid Aphidius ervi. Journal of Insect Physiology, 2002, 48, 971-980.	2.0	47

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37	Larval anatomy and structure of absorbing epithelia in the aphid parasitoid Aphidius ervi Haliday (Hymenoptera, Braconidae). Arthropod Structure and Development, 2001, 30, 27-37.	1.4	46
38	A novel fatty acid binding protein produced by teratocytes of the aphid parasitoid Aphidius ervi. Insect Molecular Biology, 2005, 14, 195-205.	2.0	46
39	Alteration of ecdysone metabolism in Heliothis virescens (F.) (Lepidoptera: Noctuidae) larvae induced by Cardiochiles nigriceps Viereck (Hymenoptera: Braconidae) teratocytes. Insect Biochemistry and Molecular Biology, 1994, 24, 383-394.	2.7	45
40	Regulation ofHeliothis virescens prothoracic glands byCardiochiles nigriceps polydnavirus. Archives of Insect Biochemistry and Physiology, 1998, 38, 1-10.	1.5	45
41	Effect of Adult Experience on in-Flight Orientation to Plant and Plantâ€“Host Complex Volatiles inAphidius erviHaliday (Hymenoptera, Braconidae). Biological Control, 1997, 10, 159-165.	3.0	44
42	Development and nutrition of the braconid wasp,Aphidius ervi in aposymbiotic host aphids. Archives of Insect Biochemistry and Physiology, 1999, 40, 53-63.	1.5	44
43	Infection by a symbiotic polydnavirus induces wasting and inhibits metamorphosis of the mothPseudoplusia includens. Journal of Experimental Biology, 2009, 212, 2998-3006.	1.7	44
44	The Chitinase A from the baculovirus AcMNPV enhances resistance to both fungi and herbivorous pests in tobacco. Transgenic Research, 2008, 17, 557-571.	2.4	43
45	Honey Bee Antiviral Immune Barriers as Affected by Multiple Stress Factors: A Novel Paradigm to Interpret Colony Health Decline and Collapse. Viruses, 2018, 10, 159.	3.3	43
46	Host regulation effects of ovary fluid and venom of Aphidius ervi (Hymenoptera: Braconidae). Journal of Insect Physiology, 1998, 44, 779-784.	2.0	42
47	Prothoracic gland inactivation in Heliothis virescens (F.) (Lepidoptera:Noctuidae) larvae parasitized by Cardiochiles nigriceps Viereck (Hymenoptera:Braconidae). Journal of Insect Physiology, 1998, 44, 845-857.	2.0	42
48	Functional amyloids in insect immune response. Insect Biochemistry and Molecular Biology, 2012, 42, 203-211.	2.7	42
49	Toxoneuron nigriceps polydnavirus encodes a putative aspartyl protease highly expressed in parasitized host larvae. Insect Molecular Biology, 2003, 12, 9-17.	2.0	41
50	Protein tyrosine phosphatases ofToxoneuron nigriceps bracovirus as potential disrupters of host prothoracic gland function. Archives of Insect Biochemistry and Physiology, 2006, 61, 157-169.	1.5	41
51	Host regulation and nutritional exploitation by parasitic wasps. Current Opinion in Insect Science, 2014, 6, 74-79.	4.4	41
52	Juvenile hormone synthesis, metabolism, and resulting haemolymph titre in Heliothis virescens larvae parasitized by Toxoneuron nigriceps. Journal of Insect Physiology, 2003, 49, 1021-1030.	2.0	40
53	Functional analysis of an immune gene of Spodoptera littoralis by RNAi. Journal of Insect Physiology, 2014, 64, 90-97.	2.0	40
54	Host recognition and acceptance behaviour in two aphid parasitoid species: Aphidius ervi and Aphidius microlophii (Hymenoptera: Braconidae). Bulletin of Entomological Research, 1994, 84, 57-64.	1.0	39

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55	Biochemical and ultrastructural alterations in prothoracic glands of Heliothis virescens (F.) (Lepidoptera: Noctuidae) last instar larvae parasitized by Cardiochiles nigriceps Viereck (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Over		
56	Lepidopteran Larval Midgut During Prepupal Instar: Digestion or Self-Digestion?. Autophagy, 2007, 3, 630-631.	9.1	38
57	Absorption of albumin by the midgut of a lepidopteran larva. Journal of Insect Physiology, 2005, 51, 933-940.	2.0	37
58	Expression of a Toxoneuron nigriceps polydnavirus-encoded protein causes apoptosis-like programmed cell death in lepidopteran insect cells. Journal of General Virology, 2005, 86, 963-971.	2.9	34
59	Mating behaviour of Aphidius ervi (Hymenoptera: Braconidae): The role of antennae. European Journal of Entomology, 2002, 99, 451-456.	1.2	34
60	Molecular and chemical mechanisms involved in aphid resistance in cultivated tomato. New Phytologist, 2010, 187, 1089-1101.	7.3	33
61	Preliminary results on in vitro rearing of the endoparasitoid Cardiochiles nigriceps from egg to second instar. Entomologia Experimentalis Et Applicata, 1992, 64, 209-216.	1.4	32
62	Aphid parasitoid responses to semiochemicals â€" Genetic, conditioned or learnt?. Entomophaga, 1997, 42, 193-199.	0.2	32
63	Evolution of an insect immune barrier through horizontal gene transfer mediated by a parasitic wasp. PLoS Genetics, 2019, 15, e1007998.	3.5	32
64	Neonicotinoid Clothianidin reduces honey bee immune response and contributes to Varroa mite proliferation. Nature Communications, 2020, 11, 5887.	12.8	32
65	Biochemical and developmental alterations ofHeliothis virescens (F.) (lepidoptera, noctuidae) larvae induced by the endophagous parasitoidCardiochiles nigriceps viereck (Hymenoptera, braconidae). Archives of Insect Biochemistry and Physiology, 1994, 26, 211-233.	1.5	31
66	Absorption of sugars and amino acids by the epidermis of Aphidius ervi larvae. Journal of Insect Physiology, 2003, 49, 1115-1124.	2.0	28
67	Functional analysis of a fatty acid binding protein produced by Aphidius ervi teratocytes. Journal of Insect Physiology, 2012, 58, 621-627.	2.0	28
68	Tomato Plants Treated with Systemin Peptide Show Enhanced Levels of Direct and Indirect Defense Associated with Increased Expression of Defense-Related Genes. Plants, 2019, 8, 395.	3.5	28
69	Selection of Endophytic Beauveria bassiana as a Dual Biocontrol Agent of Tomato Pathogens and Pests. Pathogens, 2021, 10, 1242.	2.8	28
70	Cardiochiles nigriceps polydnavirus: molecular characterization and gene expression in parasitized Heliothis virescens larvae. Insect Biochemistry and Molecular Biology, 1999, 29, 1087-1096.	2.7	27
71	Physiological and molecular interaction in the hostâ€"parasitoid system Heliothis virescensâ€"Toxoneuron nigriceps: current status and future perspectives. Insect Biochemistry and Molecular Biology, 2004, 34, 177-183.	2.7	27
72	Nutrient absorption by Aphidius ervi larvae. Journal of Insect Physiology, 2005, 51, 1183-1192.	2.0	27

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73	Applications of Parasitoid Virus and Venom Research in Agriculture. , 2012, , 269-283.		25
74	Morphology and ultrastructure of the serosal cells (teratocytes) in Cardiochiles nigriceps Viereck (Hymenoptera : Braconidae) embryos. Arthropod Structure and Development, 1994, 23, 93-104.	0.4	24
75	Title is missing!. Molecular Breeding, 2002, 9, 159-169.	2.1	24
76	An insect peptide engineered into the tomato prosystemin gene is released in transgenic tobacco plants and exerts biological activity. Plant Molecular Biology, 2003, 53, 891-902.	3.9	24
77	Temperature Differentially Influences the Capacity of Trichoderma Species to Induce Plant Defense Responses in Tomato Against Insect Pests. Frontiers in Plant Science, 2021, 12, 678830.	3.6	24
78	Functional bases of hostâ€acceptance behaviour in the aphid parasitoid Aphidius ervi. Physiological Entomology, 2007, 32, 305-312.	1.5	23
79	The neonicotinoid insecticide Clothianidin adversely affects immune signaling in a human cell line. Scientific Reports, 2017, 7, 13446.	3.3	22
80	The impact on microtubule network of a bracovirus IÎºB-like protein. Cellular and Molecular Life Sciences, 2010, 67, 1699-1712.	5.4	21
81	A polydnavirus-encoded ANK protein has a negative impact on steroidogenesis and development. Insect Biochemistry and Molecular Biology, 2018, 95, 26-32.	2.7	21
82	Venomics of the ectoparasitoid wasp Bracon nigricans. BMC Genomics, 2020, 21, 34.	2.8	20
83	Symbiosis disruption in the olive fruit fly, <scp>Bactrocera oleae</scp> (Rossi), as a potential tool for sustainable control. Pest Management Science, 2020, 76, 3199-3207.	3.4	19
84	A Polydnavirus ANK Protein Acts as Virulence Factor by Disrupting the Function of Prothoracic Gland Steroidogenic Cells. PLoS ONE, 2014, 9, e95104.	2.5	19
85	A viral chitinase enhances oral activity of TMOF. Insect Biochemistry and Molecular Biology, 2010, 40, 533-540.	2.7	17
86	The genomes of two parasitic wasps that parasitize the diamondback moth. BMC Genomics, 2019, 20, 893.	2.8	17
87	A Virulence Factor Encoded by a Polydnavirus Confers Tolerance to Transgenic Tobacco Plants against Lepidopteran Larvae, by Impairing Nutrient Absorption. PLoS ONE, 2014, 9, e113988.	2.5	16
88	Prosystemin, a prohormone that modulates plant defense barriers, is an intrinsically disordered protein. Protein Science, 2018, 27, 620-632.	7.6	16
89	The CPP Tat enhances eGFP cell internalization and transepithelial transport by the larval midgut of Bombyx mori (Lepidoptera, Bombycidae). Journal of Insect Physiology, 2011, 57, 1689-1697.	2.0	15
90	Host regulation by the ectophagous parasitoid wasp Bracon nigricans. Journal of Insect Physiology, 2017, 101, 73-81.	2.0	14

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91	Plant response to feeding aphids promotes aphid dispersal. Entomologia Experimentalis Et Applicata, 2018, 166, 386-394.	1.4	14
92	Arthropod Endosymbiosis and Evolution. , 2013, , 441-477.		14
93	Absorption of horseradish peroxidase in Bombyx mori larval midgut. Journal of Insect Physiology, 2007, 53, 517-525.	2.0	13
94	The effect of larval and early adult experience on behavioural plasticity of the aphid parasitoid Aphidius ervi (Hymenoptera, Braconidae, Aphidiinae). Die Naturwissenschaften, 2007, 94, 903-910.	1.6	13
95	Structure and function of the extraembryonic membrane persisting around the larvae of the parasitoid Toxoneuron nigriceps. Journal of Insect Physiology, 2006, 52, 870-880.	2.0	10
96	A salivary chitinase of Varroa destructor influences host immunity and miteâ€™s survival. PLoS Pathogens, 2020, 16, e1009075.	4.7	9
97	Toxoneuron nigriceps parasitization delays midgut replacement in fifth-instar Heliothis virescens larvae. Cell and Tissue Research, 2008, 332, 371-379.	2.9	5
98	Aphid Parasitoid Venom and its Role in Host Regulation. , 2012, , 247-254.		5
99	Targeting the potassium ion channel genesSKandSHas a novel approach for control of insect pests: efficacy and biosafety. Pest Management Science, 2019, 75, 2505-2516.	3.4	5
100	Transgenic expression in tobacco of a poly-proctolin construct leading to production of the bioactive peptide. Biotechnology Letters, 2004, 26, 1413-1420.	2.2	3
101	Glutathione levels modulation as a strategy in host-parasite interactionsÃ¢â‚¬â€insights for biology of cancer. Frontiers in Pharmacology, 2014, 5, 180.	3.5	3
102	Tomato Prosystemin Is Much More than a Simple Systemin Precursor. Biology, 2022, 11, 124.	2.8	3
103	Immune interactions between insects and their natural antagonists: a workshop honoring Professor Stuart E. Reynolds. Journal of Insect Physiology, 2013, 59, 121-122.	2.0	2
104	Analysis of Cellular Immune Responses in Lepidopteran Larvae. Springer Protocols, 2020, , 97-111.	0.3	2
105	Not Only Systemin: Prosystemin Harbors Other Active Regions Able to Protect Tomato Plants. Frontiers in Plant Science, 2022, 13, .	3.6	2