Francesco Pennacchio

List of Publications by Year
in descending order

105 papers	6,399 citations	66343 42 h-index	71685 76 g-index
111 all docs	111 docs citations	111 times ranked	7067 citing authors

#	Article	IF	Citations
1	Tomato Prosystemin Is Much More than a Simple Systemin Precursor. Biology, 2022, 11, 124.	2.8	3
2	Not Only Systemin: Prosystemin Harbors Other Active Regions Able to Protect Tomato Plants. Frontiers in Plant Science, 2022, 13, .	3.6	2
3	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
4	Selection of Endophytic Beauveria bassiana as a Dual Biocontrol Agent of Tomato Pathogens and Pests. Pathogens, 2021, 10, 1242.	2.8	28
5	Neonicotinoid Clothianidin reduces honey bee immune response and contributes to Varroa mite proliferation. Nature Communications, 2020, 11, 5887.	12.8	32
6	Symbiosis disruption in the olive fruit fly, <scp><i>Bactrocera oleae</i></scp> (Rossi), as a potential tool for sustainable control. Pest Management Science, 2020, 76, 3199-3207.	3.4	19
7	Venomics of the ectoparasitoid wasp Bracon nigricans. BMC Genomics, 2020, 21, 34.	2.8	20
8	A salivary chitinase of Varroa destructor influences host immunity and miteâ€™s survival. PLoS Pathogens, 2020, 16, e1009075.	4.7	9
9	Analysis of Cellular Immune Responses in Lepidopteran Larvae. Springer Protocols, 2020, , 97-111.	0.3	2
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	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
12	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
13	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
14	Haemolymph removal by <i>Varroa</i> 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
15	Evolution of an insect immune barrier through horizontal gene transfer mediated by a parasitic wasp. PLoS Genetics, 2019, 15, e1007998.	3.5	32
16	The genomes of two parasitic wasps that parasitize the diamondback moth. BMC Genomics, 2019, 20, 893.	2.8	17
17	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
18	Prosystemin, a prohormone that modulates plant defense barriers, is an intrinsically disordered protein. Protein Science, 2018, 27, 620-632.	7.6	16

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19	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
20	Plant response to feeding aphids promotes aphid dispersal. Entomologia Experimentalis Et Applicata, 2018, 166, 386-394.	1.4	14
21	<i>Trichoderma harzianum</i> enhances tomato indirect defense against aphids. Insect Science, 2017, 24, 1025-1033.	3.0	69
22	The neonicotinoid insecticide Clothianidin adversely affects immune signaling in a human cell line. Scientific Reports, 2017, 7, 13446.	3.3	22
23	Plant-to-plant communication triggered by systemin primes anti-herbivore resistance in tomato. Scientific Reports, 2017, 7, 15522.	3.3	50
24	Host regulation by the ectophagous parasitoid wasp Bracon nigricans. Journal of Insect Physiology, 2017, 101, 73-81.	2.0	14
25	Midgut microbiota and host immunocompetence underlie <i>Bacillus thuringiensis</i> killing mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9486-9491.	7.1	144
26	Are bee diseases linked to pesticides? â€" A brief review. Environment International, 2016, 89-90, 7-11.	10.0	350
27	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
28	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
29	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
30	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
31	Disentangling multiple interactions in the hive ecosystem. Trends in Parasitology, 2014, 30, 556-561.	3.3	75
32	Functional analysis of an immune gene of Spodoptera littoralis by RNAi. Journal of Insect Physiology, 2014, 64, 90-97.	2.0	40
33	Host regulation and nutritional exploitation by parasitic wasps. Current Opinion in Insect Science, 2014, 6, 74-79.	4.4	41
34	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
35	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
36	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

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37	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
38	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
39	Arthropod Endosymbiosis and Evolution. , 2013, , 441-477.		14
40	Synergistic Parasite-Pathogen Interactions Mediated by Host Immunity Can Drive the Collapse of Honeybee Colonies. PLoS Pathogens, 2012, 8, e1002735.	4.7	364
41	Functional amyloids in insect immune response. Insect Biochemistry and Molecular Biology, 2012, 42, 203-211.	2.7	42
42	Aphid Parasitoid Venom and its Role in Host Regulation. , 2012, , 247-254.		5
43	Functional analysis of a fatty acid binding protein produced by Aphidius ervi teratocytes. Journal of Insect Physiology, 2012, 58, 621-627.	2.0	28
44	Applications of Parasitoid Virus and Venom Research in Agriculture. , 2012, , 269-283.		25
45	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
46	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
47	Dynamics of Persistent and Acute Deformed Wing Virus Infections in Honey Bees, Apis mellifera. Viruses, 2011, 3, 2425-2441.	3.3	81
48	The impact on microtubule network of a bracovirus IÎºB-like protein. Cellular and Molecular Life Sciences, 2010, 67, 1699-1712.	5.4	21
49	Molecular and chemical mechanisms involved in aphid resistance in cultivated tomato. New Phytologist, 2010, 187, 1089-1101.	7.3	33
50	A viral chitinase enhances oral activity of TMOF. Insect Biochemistry and Molecular Biology, 2010, 40, 533-540.	2.7	17
51	Infection by a symbiotic polydnavirus induces wasting and inhibits metamorphosis of the moth<i>Pseudoplusia includens</i>. Journal of Experimental Biology, 2009, 212, 2998-3006.	1.7	44
52	Aphidius ervi teratocytes release an extracellular enolase. Insect Biochemistry and Molecular Biology, 2009, 39, 801-813.	2.7	54
53	Toxoneuron nigriceps parasitization delays midgut replacement in fifth-instar Heliothis virescens larvae. Cell and Tissue Research, 2008, 332, 371-379.	2.9	5
54	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

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55	Lepidopteran Larval Midgut During Prepupal Instar: Digestion or Self-Digestion?. Autophagy, 2007, 3, 630-631.	9.1	38
56	Functional bases of hostâ€acceptance behaviour in the aphid parasitoid<i> Aphidius ervi</i>. Physiological Entomology, 2007, 32, 305-312.	1.5	23
57	Characterization of the ÎºB-like gene family in polydnaviruses associated with wasps belonging to different Braconid subfamilies. Journal of General Virology, 2007, 88, 92-104.	2.9	66
58	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
59	Absorption of horseradish peroxidase in Bombyx mori larval midgut. Journal of Insect Physiology, 2007, 53, 517-525.	2.0	13
60	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
61	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
62	EVOLUTION OF DEVELOPMENTAL STRATEGIES IN PARASITIC HYMENOPTERA. Annual Review of Entomology, 2006, 51, 233-258.	11.8	510
63	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
64	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
65	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
66	Absorption of albumin by the midgut of a lepidopteran larva. Journal of Insect Physiology, 2005, 51, 933-940.	2.0	37
67	Nutrient absorption by Aphidius ervi larvae. Journal of Insect Physiology, 2005, 51, 1183-1192.	2.0	27
68	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
69	Bracoviruses Contain a Large Multigene Family Coding for Protein Tyrosine Phosphatases. Journal of Virology, 2004, 78, 13090-13103.	3.4	79
70	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
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	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

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73	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
74	Absorption of sugars and amino acids by the epidermis of Aphidius ervi larvae. Journal of Insect Physiology, 2003, 49, 1115-1124.	2.0	28
75	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
76	Toxoneuron nigriceps polydnavirus encodes a putative aspartyl protease highly expressed in parasitized host larvae. Insect Molecular Biology, 2003, 12, 9-17.	2.0	41
77	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
78	Pea aphid clonal resistance to the endophagous parasitoid Aphidius ervi. Journal of Insect Physiology, 2002, 48, 971-980.	2.0	47
79	Title is missing!. Molecular Breeding, 2002, 9, 159-169.	2.1	24
80	Plant-to-plant communication mediating in-flight orientation of Aphidius ervi. Journal of Chemical Ecology, 2002, 28, 1703-1715.	1.8	88
81	Mating behaviour of Aphidius ervi (Hymenoptera: Braconidae): The role of antennae. European Journal of Entomology, 2002, 99, 451-456.	1.2	34
82	Can aphid-induced plant signals be transmitted aerially and through the rhizosphere?. Biochemical Systematics and Ecology, 2001, 29, 1063-1074.	1.3	75
83	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
84	Physical and chemical cues influencing the oviposition behaviour of Aphidius ervi. Entomologia Experimentalis Et Applicata, 2000, 94, 219-227.	1.4	74
85	Host regulation by the aphid parasitoid Aphidius ervi: the role of teratocytes. Entomologia Experimentalis Et Applicata, 2000, 97, 1-9.	1.4	71
86	Host castration by Aphidius ervi venom proteins. Journal of Insect Physiology, 2000, 46, 1041-1050.	2.0	109
87	Title is missing!. Journal of Chemical Ecology, 1999, 25, 1247-1261.	1.8	129
88	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
89	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
90	Host regulation effects of ovary fluid and venom of Aphidius ervi (Hymenoptera: Braconidae). Journal of Insect Physiology, 1998, 44, 779-784.	2.0	42

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91	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
92	Regulation ofHeliothis virescens prothoracic glands byCardiochiles nigriceps polydnavirus. Archives of Insect Biochemistry and Physiology, 1998, 38, 1-10.	1.5	45
93	Strategies Involved in the Location of Hosts by the ParasitoidAphidius erviHaliday (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	3.0	195
94	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
95	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 /Ove	2.7	39
96	Aphid parasitoid responses to semiochemicals â€” Genetic, conditioned or learnt?. Entomophaga, 1997, 42, 193-199.	0.2	32
97	Biochemical and metabolic alterations inAcyrthosiphon pisum parasitized byAphidius ervi. Archives of Insect Biochemistry and Physiology, 1995, 30, 351-367.	1.5	68
98	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
99	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
100	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
101	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
102	Host recognition and acceptance behaviour in two aphid parasitoid species: <i>Aphidius ervi</i> and <i>Aphidius microlophii</i> (Hymenoptera: Braconidae). Bulletin of Entomological Research, 1994, 84, 57-64.	1.0	39
103	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
104	Preliminary results on in vitro rearing of the endoparasitoid <i>Cardiochiles nigriceps</i> from egg to second instar. Entomologia Experimentalis Et Applicata, 1992, 64, 209-216.	1.4	32
105	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