Stuart E Reynolds

List of Publications by Year
in descending order

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71 papers	3,872 citations	94433 37 h-index	128289 60 g-index
73 all docs	73 docs citations	73 times ranked	3598 citing authors

#	Article	IF	Citations
1	Photorhabdus: towards a functional genomic analysis of a symbiont and pathogen. FEMS Microbiology Reviews, 2003, 26, 433-456.	8.6	213
2	An antibiotic produced by an insect-pathogenic bacterium suppresses host defenses through phenoloxidase inhibition. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2419-2424.	7.1	199
3	Persistence of double-stranded RNA in insect hemolymph as a potential determiner of RNA interference success: Evidence from Manduca sexta and Blattella germanica. Journal of Insect Physiology, 2013, 59, 171-178.	2.0	168
4	Insect immune responses to nematode parasites. Trends in Parasitology, 2011, 27, 537-547.	3.3	154
5	Pyrosequencing the Manduca sexta larval midgut transcriptome: messages for digestion, detoxification and defence. Insect Molecular Biology, 2010, 19, 61-75.	2.0	148
6	Developmental Changes of the 26 S Proteasome in Abdominal Intersegmental Muscles of Manduca sexta during Programmed Cell Death. Journal of Biological Chemistry, 1995, 270, 1850-1858.	3.4	146
7	Bacterial infection of a model insect: Photorhabdus luminescens and Manduca sexta. Cellular Microbiology, 2002, 4, 329-339.	2.1	129
8	Ocurrence of the antibiotic producing bacteriumBurkholderiasp. in colonies of the leaf-cutting antAtta sexdens rubropilosa. FEMS Microbiology Letters, 2004, 239, 319-323.	1.8	125
9	RNAi suppression of recognition protein mediated immune responses in the tobacco hornworm Manduca sexta causes increased susceptibility to the insect pathogen Photorhabdus. Developmental and Comparative Immunology, 2006, 30, 1099-1107.	2.3	109
10	Prior infection of Manduca sexta with non-pathogenic Escherichia coli elicits immunity to pathogenic Photorhabdus luminescens: Roles of immune-related proteins shown by RNA interference. Insect Biochemistry and Molecular Biology, 2006, 36, 517-525.	2.7	108
11	Complete metamorphosis of insects. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190063.	4.0	103
12	Legionella pneumophila Pathogenesis in the Galleria mellonella Infection Model. Infection and Immunity, 2012, 80, 2780-2790.	2.2	99
13	Food and water economy and its relation to growth in fifth-instar larvae of the tobacco hornworm, Manduca sexta. Journal of Insect Physiology, 1985, 31, 119-127.	2.0	96
14	Physiology of Pupal Ecdysis in the Tobacco Hornworm, Manduca Sexta. Journal of Experimental Biology, 1980, 88, 327-338.	1.7	94
15	Physiology and Biochemistry of Insect Moulting Fluid. Advances in Insect Physiology, 1996, 26, 157-232.	2.7	92
16	The cuticle, growth and moulting in insects: The essential background to the action of acylurea insecticides. Pest Management Science, 1987, 20, 131-146.	0.4	85
17	The immunoglobulin family protein Hemolin mediates cellular immune responses to bacteria in the insect Manduca sexta. Cellular Microbiology, 2007, 9, 1137-1147.	2.1	84
18	Eupyrene and Apyrene Sperm: Dichotomous Spermatogenesis in Lepidoptera. Advances in Insect Physiology, 2005, , 206-308.	2.7	79

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19	Galleria mellonella as an infection model for Campylobacter jejuni virulence. Journal of Medical Microbiology, 2011, 60, 661-669.	1.8	77
20	Rapid Virulence Annotation (RVA): Identification of virulence factors using a bacterial genome library and multiple invertebrate hosts. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15967-15972.	7.1	76
21	Dissecting the immune response to the entomopathogen Photorhabdus. Trends in Microbiology, 2010, 18, 552-560.	7.7	70
22	Induction of RNA interference genes by double-stranded RNA; implications for susceptibility to RNA interference. Insect Biochemistry and Molecular Biology, 2012, 42, 621-628.	2.7	68
23	Modulation by eicosanoid biosynthesis inhibitors of immune responses by the insect Manduca sexta to the pathogenic fungus Metarhizium anisopliae. Journal of Invertebrate Pathology, 2002, 79, 93-101.	3.2	60
24	Fungivore host-use groups from cluster analysis: patterns of utilisation of fungal fruiting bodies by ciid beetles. Ecological Entomology, 2005, 30, 620-641.	2.2	59
25	Molting fluid enzymes of the tobacco hornworm,Manduca sexta: Timing of proteolytic and chitinolytic activity in relation to pre-ecdysial development. Archives of Insect Biochemistry and Physiology, 1993, 24, 33-44.	1.5	53
26	Sperm transfer during mating, movement of sperm in the female reproductive tract, and sperm precedence in the common cutworm Spodoptera litura. Physiological Entomology, 2002, 27, 1-14.	1.5	53
27	Isolation and functional characterization of an allatotropin receptor from Manduca sexta. Insect Biochemistry and Molecular Biology, 2011, 41, 804-814.	2.7	50
28	Intratesticular ecdysteroid titres and the arrest of sperm production during pupal diapause in the tobacco hornworm, Manduca sexta. Journal of Insect Physiology, 1992, 38, 693-703.	2.0	49
29	Characterization of a nicotinic acetylcholine receptor from the insectManduca sexta. European Journal of Neuroscience, 1998, 10, 879-889.	2.6	49
30	The structural mechanism of trypsin-induced intrinsic motility in Manduca sexta spermatozoa in vitro. Journal of Insect Physiology, 2001, 47, 245-255.	2.0	49
31	A cuticle-degrading proteinase from the moulting fluid of the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 1993, 23, 607-614.	2.7	48
32	Probing the tri-trophic interaction between insects, nematodes andPhotorhabdus. Parasitology, 2010, 137, 1695-1706.	1.5	48
33	Neuropeptide Control of Molting in Insects. , 2002, , 1-XVI.		47
34	Plasmatocyte-spreading peptide (PSP) plays a central role in insect cellular immune defenses against bacterial infection. Journal of Experimental Biology, 2009, 212, 1840-1848.	1.7	46
35	Effect of the insect pathogenic bacteriumPhotorhabduson insect phagocytes. Cellular Microbiology, 2004, 6, 89-95.	2.1	45
36	The role of iron uptake in pathogenicity and symbiosis in Photorhabdus luminescens TT01. BMC Microbiology, 2010, 10, 177.	3.3	45

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37	Microbial infection causes the appearance of hemocytes with extreme spreading ability in monolayers of the tobacco hornworm Manduca sexta. Developmental and Comparative Immunology, 2004, 28, 689-700.	2.3	43
38	Orientation of specialist and generalist fungivorous ciid beetles to host and non-host odours. Physiological Entomology, 2000, 25, 288-295.	1.5	40
39	Specific Developmental Changes in the Regulatory Subunits of the 26 S Proteasome in Intersegmental Muscles Preceding Eclosion inManduca sexta. Biochemical and Biophysical Research Communications, 1996, 228, 517-523.	2.1	38
40	Effects of fungivory by two specialist ciid beetles (Octotemnus glabriculus and Cis boleti) on the reproductive fitness of their host fungus, Coriolus versicolor. New Phytologist, 2000, 145, 137-144.	7.3	34
41	Induced nitric oxide synthesis in the gut of Manduca sexta protects against oral infection by the bacterial pathogen Photorhabdus luminescens. Insect Molecular Biology, 2009, 18, 507-516.	2.0	33
42	Borrelia bavariensis: Vector Switch, Niche Invasion, and Geographical Spread of a Tick-Borne Bacterial Parasite. Frontiers in Ecology and Evolution, 2019, 7, .	2.2	32
43	Meiotic metaphases are induced by 20-hydroxyecdysone during spermatogenesis of the tobacco hornworm, Manduca sexta. Journal of Insect Physiology, 1988, 34, 1013-1019.	2.0	29
44	Alternative Splice in Alternative Lice. Molecular Biology and Evolution, 2015, 32, 2749-2759.	8.9	29
45	An aminopeptidase from the moulting fluid of the tobacco hornworm, Manduca sexta. Insect Biochemistry and Molecular Biology, 1993, 23, 615-620.	2.7	27
46	[3H]-Methyllycaconitine: a high affinity radioligand that labels invertebrate nicotinic acetylcholine receptors. Insect Biochemistry and Molecular Biology, 2001, 31, 533-542.	2.7	25
47	The 26S-proteasome: regulation and substrate recognition. Molecular Biology Reports, 1997, 24, 39-44.	2.3	22
48	A nematode symbiont sheds light on invertebrate immunity. Trends in Parasitology, 2007, 23, 514-517.	3.3	22
49	A single locus from the entomopathogenic bacteriumPhotorhabdus luminescensinhibits activatedManduca sextaphenoloxidase. FEMS Microbiology Letters, 2009, 293, 170-176.	1.8	21
50	Moulting fluid enzymes of the tobacco hornworm, Manduca sexta: Inhibitory effect of 20-hydroxyecdysone on the activity of the cuticle degrading enzyme MFP-1. Journal of Insect Physiology, 1993, 39, 633-637.	2.0	20
51	Title is missing!. ScienceAsia, 2008, 34, 279.	0.5	19
52	Immune function keeps endosymbionts under control. Journal of Biology, 2008, 7, 28.	2.7	16
53	Cuticular plasticization in the tick, Amblyomma hebraeum (Acari: Ixodidae): possible roles of monoamines and cuticular pH. Journal of Experimental Biology, 2010, 213, 2820-2831.	1.7	16
54	A 220-kDa Activator Complex of the 26 S Proteasome in Insects and Humans. Journal of Biological Chemistry, 1999, 274, 25691-25700.	3.4	15

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55	The KdpD/KdpE two-component system of Photorhabdus asymbiotica promotes bacterial survival within M. sexta hemocytes. Journal of Invertebrate Pathology, 2010, 105, 352-362.	3.2	14
56	Cardioactive Peptides from the CNS of a Caterpillar, the Tobacco Hornworm, Manduca Sexta. Journal of Experimental Biology, 1985, 114, 397-414.	1.7	14
57	Induction of supernumerary larval moulting in the tobacco hornworm Manduca sexta: interaction of bisacylhydrazine ecdysteroid agonists with endogenous Juvenile Hormone. Physiological Entomology, 2009, 34, 30-38.	1.5	13
58	The non-pest Australasian fungivore Cis bilamellatus Wood (Coleoptera: Ciidae) in northern Europe: spread dynamics, invasion success and ecological impact. Biological Invasions, 2010, 12, 515-530.	2.4	12
59	Characterisation of the relationship between binding sites for imidacloprid and other nicotinic ligands in insects. Pest Management Science, 1999, 55, 1029-1031.	0.4	9
60	Cooking up the perfect insect: Aristotle's transformational idea about the complete metamorphosis of insects. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20190074.	4.0	9
61	Proteinase inhibitors from the molting fluid of the pharate adult tobacco hornworm,Manduca sexta. Archives of Insect Biochemistry and Physiology, 2000, 43, 33-43.	1.5	8
62	Immunity and Invasive Success. Science, 2013, 340, 816-817.	12.6	7
63	Does Subjective Health Affect the Association between Biodiversity and Quality of Life? Insights from International Data. Applied Research in Quality of Life, 2019, 14, 1315-1331.	2.4	7
64	Evolution and physiological functions of insect polydnaviruses: Introduction. Journal of Insect Physiology, 2003, 49, 395-396.	2.0	3
65	RNAI AND THE INSECT IMMUNE SYSTEM. , 2008, , 295-330.		3
66	Photorhabdus: towards a functional genomic analysis of a symbiont and pathogen. FEMS Microbiology Reviews, 2003, 26, 433-456.	8.6	3
67	Introducing insect infection and immunity. , 2009, , 1-10.		3
68	A transcription factor that enables metamorphosis. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	1
69	Ubiquitinated extracellular matrix proteins in insect cuticle. Biochemical Society Transactions, 1997, 25, 379S-379S.	3.4	0
70	Papers from the Insect Physiology sessions, Society for Experimental Biology, Barcelona, 2005. Journal of Insect Physiology, 2006, 52, 339.	2.0	0
71	Mayfly metamorphosis: Adult winged insects that molt. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2114128118.	7.1	0