Mark Hurst

List of Publications by Year
in descending order

55 papers	1,581 citations	331670 21 h-index	330143 37 g-index
60 all docs	60 docs citations	60 times ranked	1315 citing authors

#	Article	IF	Citations
1	Plasmid-Located Pathogenicity Determinants of Serratia entomophila, the Causal Agent of Amber Disease of Grass Grub, Show Similarity to the Insecticidal Toxins of Photorhabdus luminescens. Journal of Bacteriology, 2000, 182, 5127-5138.	2.2	150
2	The BC component of ABC toxins is an RHS-repeat-containing protein encapsulation device. Nature, 2013, 501, 547-550.	27.8	144
3	Cloning Serratia entomophila Antifeeding Genesâ€"a Putative Defective Prophage Active against the Grass Grub Costelytra zealandica. Journal of Bacteriology, 2004, 186, 5116-5128.	2.2	129
4	Yersinia entomophaga sp. nov., isolated from the New Zealand grass grub Costelytra zealandica. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 844-849.	1.7	97
5	3D structure of the <i>Yersinia entomophaga</i> toxin complex and implications for insecticidal activity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20544-20549.	7.1	91
6	Isolation and characterization of theSerratia entomophilaantifeeding prophage. FEMS Microbiology Letters, 2007, 270, 42-48.	1.8	76
7	The Main Virulence Determinant of Yersinia entomophaga MH96 Is a Broad-Host-Range Toxin Complex Active against Insects. Journal of Bacteriology, 2011, 193, 1966-1980.	2.2	76
8	Structural Analysis of Chi1 Chitinase from Yen-Tc: The Multisubunit Insecticidal ABC Toxin Complex of Yersinia entomophaga. Journal of Molecular Biology, 2012, 415, 359-371.	4.2	61
9	Three-dimensional Structure of the Toxin-delivery Particle Antifeeding Prophage of Serratia entomophila. Journal of Biological Chemistry, 2013, 288, 25276-25284.	3.4	57
10	Plant assimilation of phosphorus from an insoluble organic form is improved by addition of an organic anion producing Pseudomonas sp.. Soil Biology and Biochemistry, 2014, 68, 263-269.	8.8	48
11	Atomic structures of an entire contractile injection system in both the extended and contracted states. Nature Microbiology, 2019, 4, 1885-1894.	13.3	45
12	Quantum dot nanoparticles affect the reproductive system of <i>Caenorhabditis elegans</i>. Environmental Toxicology and Chemistry, 2012, 31, 2366-2374.	4.3	42
13	Cryo-EM structures of the pore-forming A subunit from the Yersinia entomophaga ABC toxin. Nature Communications, 2019, 10, 1952.	12.8	40
14	Occurrence of sep Insecticidal Toxin Complex Genes in Serratia spp. and Yersinia frederiksenii. Applied and Environmental Microbiology, 2006, 72, 6584-6592.	3.1	34
15	Induced expression of the<i>Serratia entomophila</i>Sep proteins shows activity towards the larvae of the New Zealand grass grub<i>Costelytra zealandica</i>. FEMS Microbiology Letters, 2007, 275, 160-167.	1.8	32
16	Role of antifeeding prophage (<scp>Afp</scp>) protein <scp>Afp</scp>16 in terminating the length of the <scp>Afp</scp> tailocin and stabilizing its sheath. Molecular Microbiology, 2013, 89, 702-714.	2.5	30
17	Histopathological Effects of the Yen-Tc Toxin Complex from Yersinia entomophaga MH96 (Enterobacteriaceae) on the Costelytra zealandica (Coleoptera: Scarabaeidae) Larval Midgut. Applied and Environmental Microbiology, 2012, 78, 4835-4847.	3.1	27
18	Serratia proteamaculans Strain AGR96X Encodes an Antifeeding Prophage (Tailocin) with Activity against Grass Grub (Costelytra giveni) and Manuka Beetle (Pyronota Species) Larvae. Applied and Environmental Microbiology, 2018, 84, .	3.1	27

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19	Nucleotide sequence of the Serratia entomophila plasmid pADAP and the Serratia proteamaculans pU143 plasmid virulence associated region. Plasmid, 2011, 65, 32-41.	1.4	26
20	Use of a gnotobiotic plant assay for assessing root colonization and mineral phosphate solubilization by Paraburkholderia bryophila Ha185 in association with perennial ryegrass (Lolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.7	26
21	Virulence of Serratia Strains against Costelytra zealandica. Applied and Environmental Microbiology, 2006, 72, 6417-6418.	3.1	25
22	Use of the green fluorescent protein to monitor the fate of Serratia entomophila causing amber disease in the New Zealand grass grub, Costelytra zealandica. Journal of Microbiological Methods, 2002, 50, 1-8.	1.6	23
23	Pathology of Yersinia entomophaga MH96 towards Costelytra zealandica (Coleoptera; Scarabaeidae) larvae. Journal of Invertebrate Pathology, 2014, 115, 102-107.	3.2	22
24	Temperature-Dependent Galleria mellonella Mortality as a Result of Yersinia entomophaga Infection. Applied and Environmental Microbiology, 2015, 81, 6404-6414.	3.1	22
25	Serine proteases identified from a Costelytra zealandica (White) (Coleoptera: Scarabaeidae) midgut EST library and their expression through insect development. Insect Molecular Biology, 2008, 17, 247-259.	2.0	17
26	The Draft Genome Sequence of the Yersinia entomophaga Entomopathogenic Type Strain MH96T. Toxins, 2016, 8, 143.	3.4	17
27	Formation of microsclerotia in three species of<i>Beauveria</i>and storage stability of a prototype granular formulation. Biocontrol Science and Technology, 2018, 28, 1097-1113.	1.3	17
28	Peripheral sequences of the Serratia entomophila pADAP virulence-associated region. Plasmid, 2003, 50, 213-229.	1.4	14
29	<scp>A</scp>fp14 is involved in regulating the length of Antiâ€feeding prophage (<scp>A</scp>fp). Molecular Microbiology, 2015, 96, 815-826.	2.5	13
30	Plasmid transfer among several members of the family Enterobacteriaceae increases the number of species capable of causing experimental amber disease in grass grub. FEMS Microbiology Letters, 1996, 139, 117-120.	1.8	12
31	Characterization of a new strain of<i>Metarhizium novozealandicum</i>with potential to be developed as a biopesticide. Mycology, 2021, 12, 261-278.	4.4	11
32	The role of gluconate production by <i>Pseudomonas</i> spp. in the mineralization and bioavailability of calciumâ€“phytate to <i>Nicotiana tabacum</i>. Canadian Journal of Microbiology, 2015, 61, 885-897.	1.7	10
33	Restriction Map of the Serratia entomophila Plasmid pADAP Carrying Virulence Factors for Costelytra zealandica. Plasmid, 2002, 47, 51-60.	1.4	9
34	Structural Study of the <i>Serratia entomophila</i> Antifeeding Prophage: Three-Dimensional Structure of the Helical Sheath. Journal of Bacteriology, 2010, 192, 4522-4525.	2.2	8
35	Phenotypic changes and the fate of digestive enzymes during induction of amber disease in larvae of the New Zealand grass grub (Costelytra zealandica). Journal of Invertebrate Pathology, 2009, 101, 215-221.	3.2	7
36	<i>Serratia entomophila</i><i>bet</i>gene induction and the impact of glycine betaine accumulation on desiccation tolerance. Journal of Applied Microbiology, 2013, 114, 470-481.	3.1	7

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37	<scp><i>hemX</i></scp> is required for production of 2â€ketogluconate, the predominant organic anion required for inorganic phosphate solubilization by <scp><i>B</i></scp><i>urkholderia</i> sp. <scp>H</scp>a185. Environmental Microbiology Reports, 2015, 7, 918-928.	2.4	7
38	Dispersal of the Invasive Pasture Pest Heteronychus arator into Areas of Low Population Density: Effects of Sex and Season, and Implications for Pest Management. Frontiers in Plant Science, 2016, 7, 1278.	3.6	7
39	Assessment of Yersinia entomophaga as a control agent of the diamondback moth Plutella xylostella. Journal of Invertebrate Pathology, 2019, 162, 19-25.	3.2	7
40	Identification of genes involved in exoprotein release using a high-throughput exoproteome screening assay in Yersinia entomophaga. PLoS ONE, 2022, 17, e0263019.	2.5	7
41	<i>In vivo</i> transcriptome analysis provides insights into host-dependent expression of virulence factors by <i>Yersinia entomophaga</i> MH96, during infection of <i>Galleria mellonella</i>. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	6
42	Purification of the Yersinia entomophaga Yen-TC Toxin Complex Using Size Exclusion Chromatography. Methods in Molecular Biology, 2016, 1477, 39-48.	0.9	5
43	Development of a Yersinia entomophaga bait for control of larvae of the porina moth (Wiseana spp.), a pest of New Zealand improved grassland systems. Pest Management Science, 2020, 76, 350-359.	3.4	5
44	Potential for a biopesticide bait to control black beetle, <i>Heteronychus arator</i> (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	3.4	5
45	Using multiple insecticidal microbial agents against diamondback moth larvae - does it increase toxicity?. New Zealand Journal of Agricultural Research, 2021, 64, 178-193.	1.6	5
46	Evolution of virulence in a novel family of transmissible megaâ€plasmids. Environmental Microbiology, 2021, 23, 5289-5304.	3.8	5
47	Identification of Diverse Toxin Complex Clusters and an eCIS Variant in Serratia proteamaculans Pathovars of the New Zealand Grass Grub (<i>Costelytra Giveni</i>) and Manuka Beetle () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.0	5
48	Biocontrol of sheep blowfly: is there a role for pathogen-based biopesticides?. Biocontrol Science and Technology, 2020, 30, 51-67.	1.3	3
49	Investigating the Process of Sheath Maturation in Antifeeding Prophage: a Phage Tail-Like Protein Translocation Structure. Journal of Bacteriology, 2021, 203, e0010421.	2.2	3
50	Novel bacterial seed treatment protects wheat seedlings from insect damage. Crop and Pasture Science, 2017, 68, 527.	1.5	2
51	Assessment of toxicity and persistence of <scp><i>Yersinia entomophaga</i></scp> and its <scp>Yenâ€Tc</scp> associated toxin. Pest Management Science, 2020, 76, 4301-4310.	3.4	2
52	Non-spore-Forming Bacterial Entomopathogens: Their Toxins, Hosts and the Environment: Why Be a Pathogen. Advances in Environmental Microbiology, 2016, , 169-220.	0.3	2
53	Utilization of the Rhs core region of tc-sepC orthologues as a degenerate system for the rapid amplification of insecticidal genes. Molecular Ecology Notes, 2006, 6, 616-620.	1.7	1
54	Structure and gene cluster of a tyvelose-containing O-polysaccharide of an entomopathogenic bacterium Yersinia entomophaga MH96 T related to Yersinia pseudotuberculosis. Carbohydrate Research, 2017, 445, 93-97.	2.3	0

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55	The effect of selected bacteria on the virulence of <i>Metarhizium novozealandicum</i> C14 to <i>Costelytra giveni</i> larvae (Scarabaeidae). Biocontrol Science and Technology, 2022, 32, 30-46.	1.3	0