David A Wharton

List of Publications by Year
in descending order

71 papers	1,647 citations	304368 22 h-index	395343 33 g-index
74 all docs	74 docs citations	74 times ranked	1017 citing authors

#	Article	IF	Citations
1	Molecular snapshot of an intracellular freezing event in an Antarctic nematode. Cryobiology, 2017, 75, 117-124.	0.3	12
2	A survey of entomopathogenic nematodes from Otago, New Zealand, with the first record of Steinernema kraussei (Steiner, 1923) (Rhabditida: Steinernematidae) from the Southern Hemisphere. New Zealand Journal of Zoology, 2017, 44, 245-255.	0.6	3
3	Comparisons between two Antarctic nematodes: cultured Panagrolaimus sp. DAW1 and field-sourced Panagrolaimus davidi. Nematology, 2017, 19, 533-542.	0.2	2
4	Investigating trehalose synthesis genes after cold acclimation in the Antarctic nematode<i>Panagrolaimus</i>sp. DAW1. Biology Open, 2017, 6, 1953-1959.	0.6	10
5	Establishing RNAi in a Non-Model Organism: The Antarctic Nematode Panagrolaimus sp. DAW1. PLoS ONE, 2016, 11, e0166228.	1.1	7
6	Ice-Active Substances from the Infective Juveniles of the Freeze Tolerant Entomopathogenic Nematode, Steinernema feltiae. PLoS ONE, 2016, 11, e0156502.	1.1	4
7	The ability to survive intracellular freezing in nematodes is related to the pattern and distribution of ice formed. Journal of Experimental Biology, 2016, 219, 2060-5.	0.8	8
8	Field ecology of freezing: Linking microhabitat use with freezing tolerance in<i>L</i><i>itoria ewingii</i>. Austral Ecology, 2015, 40, 933-940.	0.7	4
9	Anhydrobiosis and Freezing-Tolerance: Adaptations That Facilitate the Establishment of Panagrolaimus Nematodes in Polar Habitats. PLoS ONE, 2015, 10, e0116084.	1.1	28
10	Infective Juveniles of the Entomopathogenic Nematode, Steinernema feltiae Produce Cryoprotectants in Response to Freezing and Cold Acclimation. PLoS ONE, 2015, 10, e0141810.	1.1	11
11	Anhydrobiosis. Current Biology, 2015, 25, R1114-R1116.	1.8	26
12	Cold tolerance of the Antarctic nematodes Plectus murrayi and Scottnema lindsayae. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 281-289.	0.7	15
13	Intracellular Freezing in the Infective Juveniles of Steinernema feltiae: An Entomopathogenic Nematode. PLoS ONE, 2014, 9, e94179.	1.1	22
14	Ionic regulation in the Antarctic nematode Panagrolaimus davidi, measured using electron probe X-ray microanalysis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 415-423.	0.7	1
15	Nematodes from the Victoria Land coast, Antarctica and comparisons with cultured<i>Panagrolaimus davidi</i>. Antarctic Science, 2014, 26, 15-22.	0.5	12
16	Molecular Analysis of the Cold Tolerant Antarctic Nematode, Panagrolaimus davidi. PLoS ONE, 2014, 9, e104526.	1.1	28
17	The ability of the Antarctic nematode Panagrolaimus davidi to survive intracellular freezing is dependent upon nutritional status. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 181-188.	0.7	11
18	Cold tolerance abilities of two entomopathogenic nematodes, Steinernema feltiae and Heterorhabditis bacteriophora. Cryobiology, 2013, 66, 24-29.	0.3	20

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19	Factors determining nematode distributions at Cape Hallett and Gondwana station, Antarctica. Antarctic Science, 2013, 25, 347-357.	0.5	16
20	Cold tolerance of New Zealand alpine insects. Journal of Insect Physiology, 2011, 57, 1090-1095.	0.9	43
21	Anhydrobiosis: The Model Worm as a Model?. Current Biology, 2011, 21, R578-R579.	1.8	16
22	The oatmeal nematode Panagrellus redivivus survives moderately low temperatures by freezing tolerance and cryoprotective dehydration. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 335-342.	0.7	11
23	Skin ice nucleators and glycerol in the freezing-tolerant frog Litoria ewingii. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 781-792.	0.7	16
24	Antifreeze proteins in the Antarctic springtail, Gressittacantha terranova. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 713-719.	0.7	13
25	Pododermatitis in Captive-Reared Black Stilts (<i>Himantopus novaezelandiae</i>). Journal of Zoo and Wildlife Medicine, 2011, 42, 408-413.	0.3	7
26	Osmoregulation in the Antarctic nematode<i>Panagrolaimus davidi</i>. Journal of Experimental Biology, 2010, 213, 2025-2030.	0.8	6
27	Tolerance of freezing in caterpillars of the New Zealand Magpie moth (Nyctemera annulata). Physiological Entomology, 2010, 35, 296-300.	0.6	9
28	Ice-active proteins and cryoprotectants from the New Zealand alpine cockroach, Celatoblatta quinquemaculata. Journal of Insect Physiology, 2009, 55, 27-31.	0.9	32
29	How do terrestrial Antarctic organisms survive in their harsh environment?. Journal of Biology, 2009, 8, 39.	2.7	5
30	Cold tolerance of an Antarctic nematode that survives intracellular freezing: comparisons with other nematode species. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 93-100.	0.7	40
31	Survival of Pacific oyster, Crassostrea gigas, oocytes in relation to intracellular ice formation. Cryobiology, 2008, 56, 28-35.	0.3	22
32	Characterization of a family of ice-active proteins from the Ryegrass, Lolium perenne. Cryobiology, 2008, 57, 263-268.	0.3	30
33	Three new species of free-living nematodes from inter-tidal sediments in southern New Zealand. Nematology, 2008, 10, 743-755.	0.2	7
34	A surface lipid may control the permeability slump associated with entry into anhydrobiosis in the plant parasitic nematode <i>Ditylenchus dipsaci</i>. Journal of Experimental Biology, 2008, 211, 2901-2908.	0.8	30
35	Recrystallization inhibition assessed by splat cooling and optical recrystallometry. Cryo-Letters, 2007, 28, 61-8.	0.1	6
36	Freezing and cryoprotective dehydration in an Antarctic nematode (Panagrolaimus davidi) visualised using a freeze substitution technique. Cryobiology, 2005, 50, 21-28.	0.3	39

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37	Ice-active proteins from the Antarctic nematode Panagrolaimus davidi. Cryobiology, 2005, 51, 198-207.	0.3	56
38	The influence of temperature on the life history of the Antarctic nematode Panagrolaimus davidi. Nematology, 2004, 6, 883-890.	0.2	16
39	Intracellular freezing and survival in the freeze tolerant alpine cockroach Celatoblatta quinquemaculata. Journal of Insect Physiology, 2004, 50, 225-232.	0.9	37
40	A simple ice nucleation spectrometer. Cryo-Letters, 2004, 25, 335-40.	0.1	8
41	The environmental physiology of Antarctic terrestrial nematodes: a review. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2003, 173, 621-628.	0.7	94
42	Freezing survival and cryoprotective dehydration as cold tolerance mechanisms in the Antarctic nematode Panagrolaimus davidi. Journal of Experimental Biology, 2003, 206, 215-221.	0.8	74
43	The response of Anisakis larvae to freezing. Journal of Helminthology, 2002, 76, 363-368.	0.4	45
44	Changes in surface features during desiccation of the anhydrobiotic plant parasitic nematode Ditylenchus dipsaci. Tissue and Cell, 2002, 34, 81-87.	1.0	9
45	Nematode Survival Strategies. , 2002, , 389-412.		25
46	Water relations during desiccation of cysts of the potato-cyst nematode Globodera rostochiensis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2001, 171, 121-126.	0.7	11
47	Nematode Parasites of Vertebrates. Their Transmission and Development. 2nd edition. By R. C. Anderson, pp. 672. Commonwealth Agricultural Bureau International (CABI Publishing) UK, 2000. ISBN 0 85199 421 0. Â£99.50.. Parasitology, 2000, 121, 111-113.	0.7	0
48	Electrophysiological activity during recovery from anhydrobiosis in fourth stage juveniles of Ditylenchus dipsaci. Nematology, 2000, 2, 881-886.	0.2	1
49	Ice nucleation and freezing tolerance in New Zealand alpine and lowland weta,Hemideinaspp. (Orthoptera; Stenopelmatidae). Physiological Entomology, 1999, 24, 56-63.	0.6	42
50	Ultrastructural changes during desiccation of the anhydrobiotic nematode Ditylenchus dipsaci. Tissue and Cell, 1998, 30, 312-323.	1.0	21
51	Cold tolerance of a New Zealand alpine cockroach, Celatoblatta quinquemaculata (Dictyoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	25
52	Differential Scanning Calorimetry Studies on an Antarctic Nematode (Panagrolaimus davidi) Which Survives Intracellular Freezing. Cryobiology, 1997, 34, 114-121.	0.3	30
53	Avoidance of intracellular freezing by the freezing-tolerant New Zealand Alpine weta Hemideina maori (Orthoptera: Stenopelmatidae). Journal of Insect Physiology, 1997, 43, 621-625.	0.9	22
54	Helminth and protozoan parasites of the alimentary tract of the yellowâ€eyed penguin(Megadyptes) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.6	7

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55	Recrystallization in a Freezing Tolerant Antarctic Nematode,Panagrolaimus davidi,and an Alpine Weta,Hemideina maori(Orthoptera; Stenopelmatidae). Cryobiology, 1996, 33, 607-613.	0.3	47
56	Osmotic stress effects on the freezing tolerance of the antarctic nematode Panagrolaimus davidi. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1996, 166, 344-349.	0.7	0
57	COLD TOLERANCE STRATEGIES IN NEMATODES. Biological Reviews, 1995, 70, 161-185.	4.7	49
58	Desiccation survival of the infective larvae of the insect parasitic nematode, Heterorhabditis zealandica Poinar. International Journal for Parasitology, 1995, 25, 749-752.	1.3	18
59	Anhydrobiosis in the infective juveniles of Trichostrongylus colubriformis (Nematoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 58	1.3	16
60	A survey of terrestrial nematodes from the McMurdo Sound region, Antarctica. New Zealand Journal of Zoology, 1989, 16, 467-470.	0.6	40
61	The structure of the cuticle and sheath of the infective juvenile ofTrichostrongylus colubriformis. Zeitschrift FÃ¼r Parasitenkunde (Berlin, Germany), 1986, 72, 779-787.	0.8	9
62	A Functional Biology of Nematodes. , 1986, , .		112
63	Ultrastructural changes during recovery from anabiosis in the plant parasitic nematode, Ditylenchus. Tissue and Cell, 1985, 17, 79-96.	1.0	19
64	Cold tolerance of hatched and unhatched second stage juveniles of the potato cyst-nematode Globodera rostochiensis. International Journal for Parasitology, 1985, 15, 441-445.	1.3	16
65	Cold tolerance in nematodes. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1984, 154, 73-77.	0.7	25
66	The structure of the excretory system of the infective larva of Haemonchus contortus. International Journal for Parasitology, 1984, 14, 591-600.	1.3	17
67	The effect of osmotic stress on behaviour and water content of infective larvae of Trichostrongylus colubriformis. International Journal for Parasitology, 1983, 13, 185-190.	1.3	6
68	Observations on the coiled posture of trichostrongyle infective larvae using a freeze-substitution method and scanning electron microscopy. International Journal for Parasitology, 1982, 12, 335-343.	1.3	11
69	The structure of the egg-shell of gLobodera rostochiensis (Nematoda: Tylenchida). International Journal for Parasitology, 1982, 12, 481-485.	1.3	27
70	The structure of the egg-shell of Porrocaecum ensicaudatum (Nematoda: Ascaridida). International Journal for Parasitology, 1979, 9, 127-131.	1.3	13
71	Ascaris Sp.: Water loss during desiccation of embryonating eggs. Experimental Parasitology, 1979, 48, 398-406.	0.5	31