

Giancarlo Lopez-Martinez

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,711
citations

331259

21
h-index

433756

31
g-index

31
all docs

31
docs citations

31
times ranked

1727
citing authors

#	ARTICLE	IF	CITATIONS
1	Metabolomics reveals unique and shared metabolic changes in response to heat shock, freezing and desiccation in the Antarctic midge, <i>Belgica antarctica</i> . <i>Journal of Insect Physiology</i> , 2008, 54, 645-655.	0.9	152
2	High resistance to oxidative damage in the Antarctic midge <i>Belgica antarctica</i> , and developmentally linked expression of genes encoding superoxide dismutase, catalase and heat shock proteins. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 796-804.	1.2	151
3	Drinking a hot blood meal elicits a protective heat shock response in mosquitoes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8026-8029.	3.3	137
4	Heat shock proteins contribute to mosquito dehydration tolerance. <i>Journal of Insect Physiology</i> , 2010, 56, 151-156.	0.9	132
5	Dehydration-induced cross tolerance of <i>Belgica antarctica</i> larvae to cold and heat is facilitated by trehalose accumulation. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 152, 518-523.	0.8	124
6	Mechanisms to reduce dehydration stress in larvae of the Antarctic midge, <i>Belgica antarctica</i> . <i>Journal of Insect Physiology</i> , 2007, 53, 656-667.	0.9	101
7	Dehydration, rehydration, and overhydration alter patterns of gene expression in the Antarctic midge, <i>Belgica antarctica</i> . <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2009, 179, 481-491.	0.7	101
8	A dose of experimental hormesis: When mild stress protects and improves animal performance. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 242, 110658.	0.8	93
9	Short-term anoxic conditioning hormesis boosts antioxidant defenses, lowers oxidative damage following irradiation and enhances male sexual performance in the Caribbean fruit fly, <i>Anastrepha suspensa</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 2150-2161.	0.8	91
10	Responses of the bed bug, <i>Cimex lectularius</i> , to temperature extremes and dehydration: levels of tolerance, rapid cold hardening and expression of heat shock proteins. <i>Medical and Veterinary Entomology</i> , 2009, 23, 418-425.	0.7	73
11	Hawkmoths use nectar sugar to reduce oxidative damage from flight. <i>Science</i> , 2017, 355, 733-735.	6.0	66
12	Habitat requirements of the seabird tick, <i>Ixodes uriae</i> (Acari: Ixodidae), from the Antarctic Peninsula in relation to water balance characteristics of eggs, nonfed and engorged stages. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007, 177, 205-215.	0.7	54
13	Rapid cold-hardening in larvae of the Antarctic midge <i>Belgica antarctica</i> : cellular cold-sensing and a role for calcium. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1938-R1946.	0.9	46
14	Early Life Hormetic Treatments Decrease Irradiation-Induced Oxidative Damage, Increase Longevity, and Enhance Sexual Performance during Old Age in the Caribbean Fruit Fly. <i>PLoS ONE</i> , 2014, 9, e88128.	1.1	41
15	Phylogeography illuminates maternal origins of exotic <i>Coptotermes gestroi</i> (Isoptera: Tj ETQq1 1 0.784314 rgBT /Qyerlock 10 Tf 50 18	1.2	40
16	Osmoregulation and salinity tolerance in the Antarctic midge, <i>Belgica antarctica</i> : seawater exposure confers enhanced tolerance to freezing and dehydration. <i>Journal of Experimental Biology</i> , 2009, 212, 2864-2871.	0.8	40
17	Regulation of heat shock proteins in the apple maggot <i>Rhagoletis pomonella</i> during hot summer days and overwintering diapause. <i>Physiological Entomology</i> , 2008, 33, 346-352.	0.6	35
18	Low-Oxygen Atmospheric Treatment Improves the Performance of Irradiation-Sterilized Male Cactus Moths Used in SIT. <i>Journal of Economic Entomology</i> , 2014, 107, 185-197.	0.8	31

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19	Distinct contractile and cytoskeletal protein patterns in the Antarctic midge are elicited by desiccation and rehydration. <i>Proteomics</i> , 2009, 9, 2788-2798.	1.3	29
20	Adaptations for the maintenance of water balance by three species of Antarctic mites. <i>Polar Biology</i> , 2008, 31, 539-547.	0.5	26
21	Short Note: Increase in feeding by the tick, <i>Ixodes uriae</i> , on AdÃ©lie penguins during a prolonged summer. <i>Antarctic Science</i> , 2009, 21, 151-152.	0.5	23
22	The seabird tick, <i>Ixodes uriae</i> , uses uric acid in penguin guano as a kairomone and guanine in tick feces as an assembly pheromone on the Antarctic Peninsula. <i>Polar Biology</i> , 2008, 31, 1445.	0.5	22
23	Rehydration Driven RNAi: A Novel Approach for Effectively Delivering dsRNA to Mosquito Larvae. <i>Journal of Medical Entomology</i> , 2012, 49, 215-218.	0.9	19
24	Hormetic benefits of prior anoxia exposure in buffering anoxia stress in a soil-pupating insect. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	17
25	Moist habitats are essential for adults of the Antarctic midge, <i>Belgica antarctica</i> (Diptera: Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	1.2	17
26	Anoxia-Conditioning Hormesis Alters the Relationship Between Irradiation Doses for Survival and Sterility in the Cactus Moth, <i>Cactoblastis cactorum</i> (Lepidoptera: Pyralidae). <i>Florida Entomologist</i> , 2016, 99, 95-104.	0.2	14
27	Commentary: Ultraviolet radiation triggers â€œpreparation for oxidative stressâ€•antioxidant response in animals: Similarities and interplay with other stressors. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 239, 110585.	0.8	12
28	Lowâ€•oxygen hormetic conditioning improves field performance of sterile insects by inducing beneficial plasticity. <i>Evolutionary Applications</i> , 2021, 14, 566-576.	1.5	8
29	Anoxia hormesis following overwintering diapause boosts bee survivorship and adult performance. <i>Science of the Total Environment</i> , 2022, 802, 149934.	3.9	7
30	Anoxia elicits the strongest stimulatory protective response in insect low-oxygen hormesis. <i>Current Opinion in Toxicology</i> , 2022, 29, 51-56.	2.6	7
31	Resistance and survival to extreme heat shows circadian and sex-specific patterns in A cavity nesting bee. <i>Current Research in Insect Science</i> , 2021, 1, 100020.	0.8	2