Giancarlo Lopez-Martinez

List of Publications by Year
in descending order

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31 papers	1,711 citations	331670 21 h-index	434195 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, Belgica antarctica. Journal of Insect Physiology, 2008, 54, 645-655.	2.0	152
2	High resistance to oxidative damage in the Antarctic midge Belgica antarctica, and developmentally linked expression of genes encoding superoxide dismutase, catalase and heat shock proteins. Insect Biochemistry and Molecular Biology, 2008, 38, 796-804.	2.7	151
3	Drinking a hot blood meal elicits a protective heat shock response in mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8026-8029.	7.1	137
4	Heat shock proteins contribute to mosquito dehydration tolerance. Journal of Insect Physiology, 2010, 56, 151-156.	2.0	132
5	Dehydration-induced cross tolerance of Belgica antarctica larvae to cold and heat is facilitated by trehalose accumulation. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 152, 518-523.	1.8	124
6	Mechanisms to reduce dehydration stress in larvae of the Antarctic midge, Belgica antarctica. Journal of Insect Physiology, 2007, 53, 656-667.	2.0	101
7	Dehydration, rehydration, and overhydration alter patterns of gene expression in the Antarctic midge, Belgica antarctica. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 481-491.	1.5	101
8	A dose of experimental hormesis: When mild stress protects and improves animal performance. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 242, 110658.	1.8	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, Anastrepha suspensa. Journal of Experimental Biology, 2012, 215, 2150-2161.	1.7	91
10	Responses of the bed bug, Cimex lectularius, to temperature extremes and dehydration: levels of tolerance, rapid cold hardening and expression of heat shock proteins. Medical and Veterinary Entomology, 2009, 23, 418-425.	1.5	73
11	Hawkmoths use nectar sugar to reduce oxidative damage from flight. Science, 2017, 355, 733-735.	12.6	66
12	Habitat requirements of the seabird tick, Ixodes uriae (Acari: Ixodidae), from the Antarctic Peninsula in relation to water balance characteristics of eggs, nonfed and engorged stages. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2007, 177, 205-215.	1.5	54
13	Rapid cold-hardening in larvae of the Antarctic midgeBelgica antarctica:cellular cold-sensing and a role for calcium. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2008, 294, R1938-R1946.	1.8	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. PLoS ONE, 2014, 9, e88128.	2.5	41
15	Phylogeography illuminates maternal origins of exotic Coptotermes gestroi (Isoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.7	40
16	Osmoregulation and salinity tolerance in the Antarctic midge, Belgica antarctica: seawater exposure confers enhanced tolerance to freezing and dehydration. Journal of Experimental Biology, 2009, 212, 2864-2871.	1.7	40
17	Regulation of heat shock proteins in the apple maggot Rhagoletis pomonella during hot summer days and overwintering diapause. Physiological Entomology, 2008, 33, 346-352.	1.5	35
18	Low-Oxygen Atmospheric Treatment Improves the Performance of Irradiation-Sterilized Male Cactus Moths Used in SIT. Journal of Economic Entomology, 2014, 107, 185-197.	1.8	31

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19	Distinct contractile and cytoskeletal protein patterns in the Antarctic midge are elicited by desiccation and rehydration. Proteomics, 2009, 9, 2788-2798.	2.2	29
20	Adaptations for the maintenance of water balance by three species of Antarctic mites. Polar Biology, 2008, 31, 539-547.	1.2	26
21	Short Note: Increase in feeding by the tick, Ixodes uriae, on AdÃ©lie penguins during a prolonged summer. Antarctic Science, 2009, 21, 151-152.	0.9	23
22	The seabird tick, Ixodes uriae, uses uric acid in penguin guano as a kairomone and guanine in tick feces as an assembly pheromone on the Antarctic Peninsula. Polar Biology, 2008, 31, 1445.	1.2	22
23	Rehydration Driven RNAi: A Novel Approach for Effectively Delivering dsRNA to Mosquito Larvae. Journal of Medical Entomology, 2012, 49, 215-218.	1.8	19
24	Hormetic benefits of prior anoxia exposure in buffering anoxia stress in a soil-pupating insect. Journal of Experimental Biology, 2018, 221, .	1.7	17
25	Moist habitats are essential for adults of the Antarctic midge, Belgica antarctica (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,Cactoblastis cactorum(Lepidoptera: Pyralidae). Florida Entomologist, 2016, 99, 95-104.	0.5	14
27	Commentary: Ultraviolet radiation triggers â€œpreparation for oxidative stressâ€•antioxidant response in animals: Similarities and interplay with other stressors. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2020, 239, 110585.	1.8	12
28	Lowâ€oxygen hormetic conditioning improves field performance of sterile insects by inducing beneficial plasticity. Evolutionary Applications, 2021, 14, 566-576.	3.1	8
29	Anoxia hormesis following overwintering diapause boosts bee survivorship and adult performance. Science of the Total Environment, 2022, 802, 149934.	8.0	7
30	Anoxia elicits the strongest stimulatory protective response in insect low-oxygen hormesis. Current Opinion in Toxicology, 2022, 29, 51-56.	5.0	7
31	Resistance and survival to extreme heat shows circadian and sex-specific patterns in A cavity nesting bee. Current Research in Insect Science, 2021, 1, 100020.	1.7	2