Nicholas M Teets

List of Publications by Year
in descending order

41 papers	1,688 citations	331259 21 h-index	301761 39 g-index
42 all docs	42 docs citations	42 times ranked	1651 citing authors

#	Article	IF	Citations
1	Transcriptional Regulation of Reproductive Diapause in the Convergent Lady Beetle, Hippodamia convergens. Insects, 2022, 13, 343.	1.0	4
2	Simulated winter warming negatively impacts survival of Antarctica's only endemic insect. Functional Ecology, 2022, 36, 1949-1960.	1.7	6
3	Hello Darkness, My Old Friend: A Tutorial of Nanda-Hamner Protocols. Journal of Biological Rhythms, 2021, 36, 221-225.	1.4	7
4	Laboratory diet influences cold tolerance in a genotype-dependent manner in Drosophila melanogaster. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 257, 110948.	0.8	6
5	Editorial on combatting the cold: Comparative physiology of low temperature and related stressors in arthropods. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2021, 260, 111037.	0.8	1
6	Fine-scale variation in microhabitat conditions influences physiology and metabolism in an Antarctic insect. Oecologia, 2021, 197, 373-385.	0.9	7
7	Mitochondrial superoxide dismutase overexpression and low oxygen conditioning hormesis improve the performance of irradiated sterile males. Scientific Reports, 2021, 11, 20182.	1.6	1
8	Changes in Energy Reserves and Gene Expression Elicited by Freezing and Supercooling in the Antarctic Midge, Belgica antarctica. Insects, 2020, 11, 18.	1.0	10
9	Integrating GWAS and Transcriptomics to Identify the Molecular Underpinnings of Thermal Stress Responses in Drosophila melanogaster. Frontiers in Genetics, 2020, 11, 658.	1.1	30
10	Environmental factors influencing fine-scale distribution of Antarcticaâ€™s only endemic insect. Oecologia, 2020, 194, 529-539.	0.9	21
11	Distinct cold tolerance traits independently vary across genotypes inDrosophila melanogaster. Evolution; International Journal of Organic Evolution, 2020, 74, 1437-1450.	1.1	16
12	High-Throughput Assays of Critical Thermal Limits in Insects. Journal of Visualized Experiments, 2020, , .	0.2	13
13	Rapid cold hardening: ecological relevance, physiological mechanisms and new perspectives. Journal of Experimental Biology, 2020, 223, .	0.8	38
14	Energy balance and metabolic changes in an overwintering wolf spider, Schizocosa stridulans. Journal of Insect Physiology, 2020, 126, 104112.	0.9	10
15	Rapid cold hardening protects against sublethal freezing injury in an Antarctic insect. Journal of Experimental Biology, 2019, 222, .	0.8	12
16	Overexpression of an antioxidant enzyme improves male mating performance after stress in a lek-mating fruit fly. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20190531.	1.2	19
17	Characterization of drought-induced rapid cold-hardening in the Antarctic midge, Belgica antarctica. Polar Biology, 2019, 42, 1147-1156.	0.5	8
18	Evidence for a rapid cold hardening response in cultured Drosophila S2 cells. Journal of Experimental Biology, 2019, 223, .	0.8	3

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19	Cold stress results in sustained locomotor and behavioral deficits in Drosophila melanogaster. Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2019, 331, 192-200.	0.9	12
20	Genetic variation in the shape of coldâ€survival curves in a single fly population suggests potential for selection from climate variability. Journal of Evolutionary Biology, 2018, 31, 543-555.	0.8	33
21	Two isoforms of Pepck in Sarcophaga bullata and their distinct expression profiles through development, diapause, and in response to stresses of cold and starvation. Journal of Insect Physiology, 2018, 111, 41-46.	0.9	27
22	Enhanced stress responses and metabolic adjustments linked to diapause and onset of migration in the large milkweed bug Oncopeltus fasciatus. Physiological Entomology, 2016, 41, 152-161.	0.6	27
23	Quantitative Phosphoproteomics Reveals Signaling Mechanisms Associated with Rapid Cold Hardening in a Chill-Tolerant Fly. Journal of Proteome Research, 2016, 15, 2855-2862.	1.8	22
24	Insect capa neuropeptides impact desiccation and cold tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2882-2887.	3.3	111
25	Surviving in a frozen desert: environmental stress physiology of terrestrial Antarctic arthropods. Journal of Experimental Biology, 2014, 217, 84-93.	0.8	59
26	Alternative overwintering strategies in an <scp>A</scp>ntarctic midge: freezing vs. cryoprotective dehydration. Functional Ecology, 2014, 28, 933-943.	1.7	20
27	Compact genome of the Antarctic midge is likely an adaptation to an extreme environment. Nature Communications, 2014, 5, 4611.	5.8	128
28	Wet hibernacula promote inoculative freezing and limit the potential for cryoprotective dehydration in the Antarctic midge, Belgica antarctica. Polar Biology, 2014, 37, 753-761.	0.5	12
29	Expression of genes involved in energy mobilization and osmoprotectant synthesis during thermal and dehydration stress in the Antarctic midge, Belgica antarctica. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2013, 183, 189-201.	0.7	45
30	Calcium signaling mediates cold sensing in insect tissues. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9154-9159.	3.3	85
31	Autophagy in Antarctica. Autophagy, 2013, 9, 629-631.	4.3	27
32	The protective effect of rapid cold-hardening develops more quickly in frozen versus supercooled larvae of the Antarctic midge, Belgica antarctica. Journal of Experimental Biology, 2013, 216, 3937-45.	0.8	19
33	Physiological mechanisms of seasonal and rapid coldâ€hardening in insects. Physiological Entomology, 2013, 38, 105-116.	0.6	288
34	Combined transcriptomic and metabolomic approach uncovers molecular mechanisms of cold tolerance in a temperate flesh fly. Physiological Genomics, 2012, 44, 764-777.	1.0	128
35	Gene expression changes governing extreme dehydration tolerance in an Antarctic insect. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20744-20749.	3.3	118
36	Energetic consequences of repeated and prolonged dehydration in the Antarctic midge, Belgica antarctica. Journal of Insect Physiology, 2012, 58, 498-505.	0.9	25

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37	Heat shock response to hypoxia and its attenuation during recovery in the flesh fly, Sarcophaga crassipalpis. Journal of Insect Physiology, 2011, 57, 203-210.	0.9	57
38	Functional characterization of an aquaporin in the Antarctic midge Belgica antarctica. Journal of Insect Physiology, 2011, 57, 1106-1114.	0.9	47
39	Survival and energetic costs of repeated cold exposure in the Antarctic midge, Belgica antarctica: a comparison between frozen and supercooled larvae. Journal of Experimental Biology, 2011, 214, 806-814.	0.8	65
40	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.	0.7	73
41	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.	0.9	46