Martin Holmstrup

List of Publications by Year
in descending order

225 papers	8,249 citations	61984 43 h-index	71685 76 g-index
226 all docs	226 docs citations	226 times ranked	7057 citing authors

#	Article	IF	Citations
1	Interactions between effects of environmental chemicals and natural stressors: A review. Science of the Total Environment, 2010, 408, 3746-3762.	8.0	621
2	Global distribution of earthworm diversity. Science, 2019, 366, 480-485.	12.6	248
3	Metabolomic profiling of rapid cold hardening and cold shock in Drosophila melanogaster. Journal of Insect Physiology, 2007, 53, 1218-1232.	2.0	232
4	Changes in membrane lipid composition following rapid cold hardening in Drosophila melanogaster. Journal of Insect Physiology, 2005, 51, 1173-1182.	2.0	224
5	Reduced N cycling in response to elevated CO2, warming, and drought in a Danish heathland: Synthesizing results of the CLIMAITE project after two years of treatments. Global Change Biology, 2011, 17, 1884-1899.	9.5	213
6	Towards a unified study of multiple stressors: divisions and common goals across research disciplines. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20200421.	2.6	191
7	Metabolomic profiling of heat stress: hardening and recovery of homeostasis in Drosophila. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R205-R212.	1.8	170
8	Supercool or dehydrate? An experimental analysis of overwintering strategies in small permeable arctic invertebrates. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5716-5720.	7.1	165
9	Effects of acclimation temperature on thermal tolerance and membrane phospholipid composition in the fruit fly Drosophila melanogaster. Journal of Insect Physiology, 2008, 54, 619-629.	2.0	148
10	Interactions between toxic chemicals and natural environmental factors â€" A meta-analysis and case studies. Science of the Total Environment, 2010, 408, 3763-3774.	8.0	131
11	Water Vapor Absorption in Arthropods by Accumulation of Myoinositol and Glucose. Science, 1999, 285, 1909-1911.	12.6	120
12	Drought acclimation confers cold tolerance in the soil collembolan Folsomia candida. Journal of Insect Physiology, 2001, 47, 1197-1204.	2.0	120
13	Drought acclimation and lipid composition in Folsomia candida: implications for cold shock, heat shock and acute desiccation stress. Journal of Insect Physiology, 2002, 48, 961-970.	2.0	113
14	Effects of freezeâ€"thaw cycles on microarthropods and nutrient availability in a sub-Arctic soil. Applied Soil Ecology, 2005, 28, 79-93.	4.3	109
15	The terrestrial and freshwater invertebrate biodiversity of the archipelagoes of the Barents Sea; Svalbard, Franz Josef Land and Novaya Zemlya. Soil Biology and Biochemistry, 2014, 68, 440-470.	8.8	105
16	Passive Dosing of Soil Invertebrates with Polycyclic Aromatic Hydrocarbons: Limited Chemical Activity Explains Toxicity Cutoff. Environmental Science & Technology, 2008, 42, 7516-7521.	10.0	102
17	Dehydration and cold hardiness in the Arctic Collembolan Onychiurus arcticus Tullberg 1876. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1998, 168, 197-203.	1.5	91
18	Dehydration of earthworm cocoons exposed to cold: a novel cold hardiness mechanism. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1994, 164, 312-315.	1.5	89

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19	Responses of springtail and mite populations to prolonged periods of soil freeze-thaw cycles in a sub-arctic ecosystem. Applied Soil Ecology, 2007, 36, 136-146.	4.3	89
20	The importance of cuticular permeability, osmolyte production and body size for the desiccation resistance of nine species of Collembola. Journal of Insect Physiology, 2004, 50, 5-15.	2.0	84
21	Physiology of cold hardiness in earthworms. Comparative Biochemistry and Physiology A, Comparative Physiology, 1996, 115, 91-101.	0.6	80
22	Reorganization of membrane lipids during fast and slow cold hardening in Drosophila melanogaster. Physiological Entomology, 2006, 31, 328-335.	1.5	77
23	Role of HSF activation for resistance to heat, cold and high-temperature knock-down. Journal of Insect Physiology, 2005, 51, 1320-1329.	2.0	76
24	Experimental design of multifactor climate change experiments with elevated CO₂, warming and drought: the CLIMAITE project. Functional Ecology, 2008, 22, 185-195.	3.6	75
25	Baseline Toxic Mixtures of Non-Toxic Chemicals: â€œSolubility Additionâ€•Increases Exposure for Solid Hydrophobic Chemicals. Environmental Science & Technology, 2013, 47, 2026-2033.	10.0	68
26	Cryoprotective and osmotic responses to cold acclimation and freezing in freeze-tolerant and freeze-intolerant earthworms. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1999, 169, 207-214.	1.5	67
27	Sensitivity of life history parameters in the earthworm Aporrectodea caliginosa to small changes in soil water potential. Soil Biology and Biochemistry, 2001, 33, 1217-1223.	8.8	63
28	The rapid cold hardening response of Collembola is influenced by thermal variability of the habitat. Functional Ecology, 2009, 23, 340-347.	3.6	63
29	Tools and perspectives for assessing chemical mixtures and multiple stressors. Toxicology, 2013, 313, 73-82.	4.2	63
30	Combined effects of copper, desiccation, and frost on the viability of earthworm cocoons. Environmental Toxicology and Chemistry, 1998, 17, 897-901.	4.3	62
31	Enhanced drought tolerance of a soil-dwelling springtail by pre-acclimation to a mild drought stress. Journal of Insect Physiology, 2001, 47, 1021-1027.	2.0	58
32	Can Bacillus thuringiensis (Bt) corn residues and Bt-corn plants affect life-history traits in the earthworm Aporrectodea caliginosa?. Applied Soil Ecology, 2006, 32, 180-187.	4.3	57
33	Dehydration tolerance and water vapour absorption in two species of soil-dwelling Collembola by accumulation of sugars and polyols. Functional Ecology, 2001, 15, 647-653.	3.6	55
34	Geothermal ecosystems as natural climate change experiments: The ForHot research site in Iceland as a case study. Icelandic Agricultural Sciences, 0, 29, 53-71.	0.0	55
35	Sublethal soil copper concentrations increase mortality in the earthworm Aporrectodea caliginosa during drought. Ecotoxicology and Environmental Safety, 2004, 57, 65-73.	6.0	53
36	A comparative analysis of the toxicity of eight common soil contaminants and their effects on drought tolerance in the collembolan Folsomia candida. Ecotoxicology and Environmental Safety, 2005, 60, 132-139.	6.0	53

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37	Body metal concentrations and glycogen reserves in earthworms (Dendrobaena octaedra) from contaminated and uncontaminated forest soil. Environmental Pollution, 2011, 159, 190-197.	7.5	53
38	Geographic variation for climatic stress resistance traits in the springtail Orchesella cincta. Journal of Insect Physiology, 2006, 52, 951-959.	2.0	52
39	Stress synergy between drought and a common environmental contaminant: studies with the collembolan Folsomia candida. Global Change Biology, 2001, 7, 485-494.	9.5	51
40	STRESS SYNERGY BETWEEN ENVIRONMENTALLY REALISTIC LEVELS OF COPPER AND FROST IN THE EARTHWORM DENDROBAENA OCTAEDRA. Environmental Toxicology and Chemistry, 2005, 24, 1462.	4.3	49
41	Effects and risk assessment of linear alkylbenzene sulfonates in agricultural soil. 5. Probabilistic risk assessment of linear alkylbenzene sulfonates in sludgeâ€amended soils. Environmental Toxicology and Chemistry, 2001, 20, 1690-1697.	4.3	47
42	Rearing of flounder (Platichthys flesus) juveniles in semiextensive systems. Aquaculture, 2004, 230, 475-491.	3.5	47
43	Substantial nutritional contribution of bacterial amino acids to earthworms and enchytraeids: A case study from organic grasslands. Soil Biology and Biochemistry, 2016, 99, 21-27.	8.8	46
44	Effect of Dimethoate on Body Growth of Representatives of the Soil Living Mesofauna. Ecotoxicology and Environmental Safety, 1996, 33, 207-216.	6.0	45
45	Differences in cold and drought tolerance of high arctic and sub-arctic populations of Megaphorura arctica Tullberg 1876 (Onychiuridae: Collembola). Cryobiology, 2007, 55, 315-323.	0.7	45
46	Cryoprotective dehydration is widespread in Arctic springtails. Journal of Insect Physiology, 2011, 57, 1147-1153.	2.0	45
47	Bioinformatics and protein expression analyses implicate LEA proteins in the drought response of Collembola. Journal of Insect Physiology, 2009, 55, 210-217.	2.0	44
48	Dual roles of glucose in the freeze-tolerant earthwormDendrobaena octaedra: cryoprotection and fuel for metabolism. Journal of Experimental Biology, 2009, 212, 859-866.	1.7	44
49	Physiology of cold hardiness in cocoons of five earthworm taxa (Lumbricidae: Oligochaeta). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1994, 164, 222-228.	1.5	43
50	Long-term multifactorial climate change impacts on mesofaunal biomass and nitrogen content. Applied Soil Ecology, 2015, 92, 54-63.	4.3	43
51	Freeze or dehydrate: only two options for the survival of subzero temperatures in the arctic enchytraeid Fridericia ratzeli. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2003, 173, 601-609.	1.5	42
52	Improving the efficiency of Trichogramma achaeae to control Tuta absoluta. BioControl, 2015, 60, 761-771.	2.0	42
53	Automatic counting of collembolans for laboratory experiments. Applied Soil Ecology, 1998, 7, 201-205.	4.3	41
54	Effects of dehydration on water relations and survival of lumbricid earthworm egg capsules. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 1995, 165, 377-383.	1.5	40

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55	Temperature effects on lipid composition of the earthworms Lumbricus rubellus and Eisenia nordenskioeldi. Soil Biology and Biochemistry, 2000, 32, 1787-1791.	8.8	38
56	Influence of storage conditions on viability of quiescent copepod eggs (Acartia tonsa Dana): effects of temperature, salinity and anoxia. Aquaculture Research, 2006, 37, 625-631.	1.8	38
57	Freeze tolerance and accumulation of cryoprotectants in the enchytraeid Enchytraeus albidus (Oligochaeta) from Greenland and Europe. Cryobiology, 2008, 57, 286-291.	0.7	38
58	Density of macropores as related to soil and earthworm community parameters in cultivated grasslands. Geoderma, 2011, 162, 319-326.	5.1	38
59	Soil microarthropods are only weakly impacted after 13 years of repeated drought treatment in wet and dry heathland soils. Soil Biology and Biochemistry, 2013, 66, 110-118.	8.8	38
60	Induced cold tolerance mechanisms depend on duration of acclimation in the chill sensitive Folsomia candida (Collembola). Journal of Experimental Biology, 2013, 216, 1991-2000.	1.7	38
61	Genetic adaptation of earthworms to copper pollution: is adaptation associated with fitness costs in Dendrobaena octaedra?. Ecotoxicology, 2011, 20, 563-573.	2.4	37
62	Soil microbial and physical properties and their relations along a steep copper gradient. Agriculture, Ecosystems and Environment, 2012, 159, 9-18.	5.3	37
63	Cold hardiness strategy in cocoons of the lumbricid earthworm Dendrobaena octaedra (savigny). Comparative Biochemistry and Physiology A, Comparative Physiology, 1992, 102, 49-54.	0.6	36
64	Interactions between cold, desiccation and environmental toxins. , 0, , 166-188.		36
65	Effects of ozone on gene expression and lipid peroxidation in adults and larvae of the red flour beetle (Tribolium castaneum). Journal of Stored Products Research, 2011, 47, 378-384.	2.6	36
66	Geographic variation of freeze-tolerance in the earthworm Dendrobaena octaedra. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2002, 172, 691-698.	1.5	35
67	Responses by earthworms to reduced tillage in herbicide tolerant maize and Bt maize cropping systems. Pedobiologia, 2007, 51, 219-227.	1.2	35
68	Freeze tolerance in Aporrectodea caliginosa and other earthworms from Finland. Cryobiology, 2007, 55, 80-86.	0.7	35
69	Simultaneous Loss of Soil Biodiversity and Functions along a Copper Contamination Gradient: When Soil Goes to Sleep. Soil Science Society of America Journal, 2014, 78, 1239-1250.	2.2	35
70	Overwintering adaptations in earthwormsThe 7th international symposium on earthworm ecology Â· Cardiff Â· Wales Â· 2002. Pedobiologia, 2003, 47, 504-510.	1.2	34
71	Sugar sweet springtails: on the transcriptional response ofFolsomia candida(Collembola) to desiccation stress. Insect Molecular Biology, 2009, 18, 737-746.	2.0	34
72	Passive Dosing of Polycyclic Aromatic Hydrocarbon (PAH) Mixtures to Terrestrial Springtails: Linking Mixture Toxicity to Chemical Activities, Equilibrium Lipid Concentrations, and Toxic Units. Environmental Science & Technology, 2013, 47, 7020-7027.	10.0	34

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73	Litter quality, mycorrhizal association, and soil properties regulate effects of tree species on the soil fauna community. Geoderma, 2022, 407, 115570.	5.1	34
74	Responses to acute and chronic desiccation stress in Enchytraeus (Oligochaeta: Enchytraeidae). Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 113-123.	1.5	33
75	Cold and drought stress in combination with pyrene exposure: studies with Protaphorura armata (Collembola: Onychiuridae). Ecotoxicology and Environmental Safety, 2004, 57, 145-152.	6.0	32
76	Diversity and host specificity of the Verminephrobacterâ€“earthworm symbiosis. Environmental Microbiology, 2010, 12, 2142-2151.	3.8	32
77	The effect of soil pH and temperature on Folsomia candida transcriptional regulation. Journal of Insect Physiology, 2010, 56, 350-355.	2.0	31
78	COMBINED CHEMICAL (FLUORANTHENE) AND DROUGHT EFFECTS ON LUMBRICUS RUBELLUS DEMONSTRATE THE APPLICABILITY OF THE INDEPENDENT ACTION MODEL FOR MULTIPLE STRESSOR ASSESSMENT. Environmental Toxicology and Chemistry, 2009, 28, 629.	4.3	29
79	Mitigating N2O emissions from clover residues by 3,4-dimethylpyrazole phosphate (DMPP) without adverse effects on the earthworm Lumbricus terrestris. Soil Biology and Biochemistry, 2017, 104, 95-107.	8.8	29
80	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. Scientific Data, 2021, 8, 136.	5.3	29
81	Effects of an anionic surfactant, linear alkylbenzene sulfonate, on survival, reproduction and growth of the soil-living collembolanFolsomia fimetaria. Environmental Toxicology and Chemistry, 1996, 15, 1745-1748.	4.3	28
82	Adaptations to overwintering in the earthworm Dendrobaena octaedra: Genetic differences in glucose mobilisation and freeze tolerance. Soil Biology and Biochemistry, 2007, 39, 2640-2650.	8.8	28
83	Can field populations of the enchytraeid, Cognettia sphagnetorum, adapt to increased drought stress?. Soil Biology and Biochemistry, 2008, 40, 1765-1771.	8.8	28
84	Increased frequency of drought reduces species richness of enchytraeid communities in both wet and dry heathland soils. Soil Biology and Biochemistry, 2012, 53, 43-49.	8.8	28
85	Earthworm distribution and abundance predicted by a process-based model. Applied Soil Ecology, 2014, 84, 112-123.	4.3	28
86	Lipophilic Contaminants Influence Cold Tolerance of Invertebrates through Changes in Cell Membrane Fluidity. Environmental Science & Technology, 2014, 48, 9797-9803.	10.0	28
87	Does acute lead (Pb) contamination influence membrane fatty acid composition and freeze tolerance in intertidal blue mussels in arctic Greenland?. Ecotoxicology, 2015, 24, 2036-2042.	2.4	28
88	Effects and risk assessment of linear alkylbenzene sulfonates in agricultural soil. 4. The influence of salt speciation, soil type, and sewage sludge on toxicity using the collembolanFolsomia fimetariaand the earthwormAporrectodea caliginosaas test organisms. Environmental Toxicology and Chemistry, 2001, 20, 1680-1689.	4.3	27
89	Cold acclimation and lipid composition in the earthworm Dendrobaena octaedra. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 147, 911-919.	1.8	27
90	Metabolic Changes during Estivation in the Common EarthwormAporrectodea caliginosa. Physiological and Biochemical Zoology, 2010, 83, 541-550.	1.5	27

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91	Metabolomic analysis of the selection response of Drosophila melanogaster to environmental stress: are there links to gene expression and phenotypic traits?. Die Naturwissenschaften, 2013, 100, 417-427.	1.6	27
92	EFFECTS OF AN ANIONIC SURFACTANT, LINEAR ALKYLBENZENE SULFONATE, ON SURVIVAL, REPRODUCTION AND GROWTH OF THE SOIL-LIVING COLLEMBOLAN FOLSOMIA FIMETARIAâ€"Short Communication. Environmental Toxicology and Chemistry, 1996, 15, 1745.	4.3	27
93	Polyol accumulation in earthworm cocoons induced by dehydration. Comparative Biochemistry and Physiology A, Comparative Physiology, 1995, 111, 251-255.	0.6	26
94	Field assessment of toxic effects on reproduction in the earthwormsAporrectodea longaandAporrectodea rosea. Environmental Toxicology and Chemistry, 2000, 19, 1781-1787.	4.3	26
95	The influence of nonylphenol on life-history of the earthworm Dendrobaena octaedra Savigny: linking effects from the individual- to the population-level. Ecotoxicology and Environmental Safety, 2004, 58, 147-159.	6.0	26
96	EFFECTS OF COPPER ON ENCHYTRAEIDS IN THE FIELD UNDER DIFFERING SOIL MOISTURE REGIMES. Environmental Toxicology and Chemistry, 2006, 25, 604.	4.3	26
97	Soil fauna communities and microbial respiration in high Arctic tundra soils at Zackenberg, Northeast Greenland. Polar Biology, 2006, 29, 189-195.	1.2	26
98	Slow desiccation improves dehydration tolerance and accumulation of compatible osmolytes in earthworm cocoons (Dendrobaena octaedraSavigny). Journal of Experimental Biology, 2008, 211, 1903-1910.	1.7	26
99	Changes in Membrane Phospholipids as a Mechanistic Explanation for Decreased Freeze Tolerance in Earthworms Exposed to Sublethal Copper Concentrations. Environmental Science & Technology, 2009, 43, 5495-5500.	10.0	26
100	Recovery of enchytraeid populations after severe drought events. Applied Soil Ecology, 2009, 42, 227-235.	4.3	26
101	Collembola feeding habits and niche specialization in agricultural grasslands of different composition. Soil Biology and Biochemistry, 2014, 74, 31-38.	8.8	26
102	Effects of an aged copper contamination on distribution of earthworms, reproduction and cocoon hatchability. Ecotoxicology and Environmental Safety, 2017, 135, 267-275.	6.0	26
103	Effects and risk assessment of linear alkylbenzene sulfonates in agricultural soil. 3. Sublethal effects on soil invertebrates. Environmental Toxicology and Chemistry, 2001, 20, 1673-1679.	4.3	25
104	Does lipophilicity of toxic compounds determine effects on drought tolerance of the soil collembolan Folsomia candida?. Environmental Pollution, 2006, 144, 808-815.	7.5	25
105	Hsp70 expression and metabolite composition in response to short-term thermal changes in Folsomia candida (Collembola). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2010, 157, 177-183.	1.8	25
106	Beneficial Effect of Verminephrobacter Nephridial Symbionts on the Fitness of the Earthworm Aporrectodea tuberculata. Applied and Environmental Microbiology, 2010, 76, 4738-4743.	3.1	25
107	The ins and outs of water dynamics in cold tolerant soil invertebrates. Journal of Thermal Biology, 2014, 45, 117-123.	2.5	25
108	Long-term and realistic global change manipulations had low impact on diversity of soil biota in temperate heathland. Scientific Reports, 2017, 7, 41388.	3.3	25

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109	Overwintering adaptations in earthworms. Pedobiologia, 2003, 47, 504-510.	1.2	24
110	Tropical to subpolar gradient in phospholipid composition suggests adaptive tuning of biological membrane function in drosophilids. Functional Ecology, 2016, 30, 759-768.	3.6	24
111	Life-history traits and population growth rate in the laboratory of the earthworm Dendrobaena octaedra cultured in copper-contaminated soil. Applied Soil Ecology, 2007, 35, 46-56.	4.3	23
112	Combined effect of copper and prolonged summer drought on soil Microarthropods in the field. Environmental Pollution, 2007, 146, 525-533.	7.5	23
113	Determining factors for cryoprotectant accumulation in the freezeâ€tolerant earthworm, Dendrobaena octaedra. Journal of Experimental Zoology, 2007, 307A, 578-589.	1.2	23
114	Impacts of heavy metals, polyaromatic hydrocarbons, and pesticides on freeze tolerance of the earthworm Dendrobaena octaedra. Environmental Toxicology and Chemistry, 2009, 28, 2341-2347.	4.3	23
115	Enchytraeids in a changing climate: A mini-review. Pedobiologia, 2010, 53, 161-167.	1.2	23
116	Uptake and toxicity of polycyclic aromatic hydrocarbons in terrestrial springtailsâ€"studying bioconcentration kinetics and linking toxicity to chemical activity. Environmental Toxicology and Chemistry, 2013, 32, 361-369.	4.3	23
117	Effects of Past Copper Contamination and Soil Structure on Copper Leaching from Soil. Journal of Environmental Quality, 2013, 42, 1852-1862.	2.0	23
118	Cold acclimation reduces predation rate and reproduction but increases cold- and starvation tolerance in the predatory mite Gaeolaelaps aculeifer Canestrini. Biological Control, 2017, 114, 150-157.	3.0	23
119	Fast attrition of springtail communities by experimental drought and richnessâ€"decomposition relationships across Europe. Global Change Biology, 2019, 25, 2727-2738.	9.5	23
120	Variation in metallothionein gene expression is associated with adaptation to copper in the earthworm Dendrobaena octaedra. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2013, 157, 220-226.	2.6	22
121	Protaphorura tricampata, a euedaphic and highly permeable springtail that can sustain activity by osmoregulation during extreme drought. Journal of Insect Physiology, 2013, 59, 1104-1110.	2.0	22
122	Functional diversity of Collembola is reduced in soils subjected to shortâ€term, but not longâ€term, geothermal warming. Functional Ecology, 2018, 32, 1304-1316.	3.6	22
123	Risk assessment of linear alkylbenzene sulphonates, LAS, in agricultural soil revisited: Robust chronic toxicity tests for Folsomia candida (Collembola), Aporrectodea caliginosa (Oligochaeta) and Enchytraeus crypticus (Enchytraeidae). Chemosphere, 2007, 69, 872-879.	8.2	21
124	Organic matter flow in the food web at a temperate heath under multifactorial climate change. Rapid Communications in Mass Spectrometry, 2011, 25, 1485-1496.	1.5	21
125	Survival and metabolism of Rana arvalis during freezing. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 223-230.	1.5	20
126	Synergistic interaction between 4-nonylphenol and high but not low temperatures in Dendrobaena octaedra. Ecotoxicology and Environmental Safety, 2009, 72, 10-16.	6.0	20

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127	Low temperature survival in different life stages of the Iberian slug, Arion lusitanicus. Cryobiology, 2011, 62, 68-73.	0.7	20
128	Dose-response curve modeling of excess mortality caused by two forms of stress. Environmental and Ecological Statistics, 2002, 9, 195-200.	3.5	19
129	Effects of starvation and body mass on drought tolerance in the soil collembolan Folsomia candida. Journal of Insect Physiology, 2003, 49, 99-104.	2.0	19
130	Extending a combined dynamic energy budget matrix population model with a bayesian approach to assess variation in the intrinsic rate of population increase. An example in the earthworm Dendrobaena octaedra. Environmental Toxicology and Chemistry, 2007, 26, 2383-2388.	4.3	19
131	Recovery of reproduction after drought in the soil living Folsomia candida (Collembola). Soil Biology and Biochemistry, 2011, 43, 690-692.	8.8	19
132	The influence of temperature on life history traits in the Iberian slug, Arion lusitanicus. Annals of Applied Biology, 2013, 162, 80-88.	2.5	19
133	Estimation of earthworm cocoon development time and its use in studies of in situ reproduction rates. Applied Soil Ecology, 1997, 7, 73-82.	4.3	18
134	Genetic variation in desiccation tolerance of Dendrobaena octaedra cocoons originating from different climatic regions. Soil Biology and Biochemistry, 2003, 35, 119-124.	8.8	18
135	Direct measurement of ammonium excretion in soil microarthropods. Functional Ecology, 2004, 18, 612-615.	3.6	18
136	Low genetic variation for Dendrobaena octaedra from Greenland compared to populations from Europe and North America: Refuge or selection?. Pedobiologia, 2006, 50, 225-234.	1.2	18
137	Temporal gene expression profiles in a palaearctic springtail as induced by desiccation, cold exposure and during recovery. Functional Ecology, 2010, 24, 838-846.	3.6	18
138	Soil salinity increases survival of freezing in the enchytraeidEnchytraeus albidus. Journal of Experimental Biology, 2013, 216, 2732-40.	1.7	18
139	Accumulation of free amino acids during exposure to drought in three springtail species. Journal of Insect Physiology, 2015, 82, 114-121.	2.0	18
140	Mechanistic Effect Modeling of Earthworms in the Context of Pesticide Risk Assessment: Synthesis of the FORESEE Workshop. Integrated Environmental Assessment and Management, 2021, 17, 352-363.	2.9	18
141	The Role of Storage Lipids in the Relation between Fecundity, Locomotor Activity, and Lifespan of Drosophila melanogaster Longevity-Selected and Control Lines. PLoS ONE, 2015, 10, e0130334.	2.5	18
142	Seasonal changes in lipid composition and glycogen storage associated with freeze-tolerance of the earthworm, Dendrobaena octaedra. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2009, 179, 569-577.	1.5	17
143	The counteracting effects of elevated atmospheric CO2 concentrations and drought episodes: Studies of enchytraeid communities in a dry heathland. Soil Biology and Biochemistry, 2010, 42, 1958-1966.	8.8	17
144	Cold tolerance and freeze-induced glucose accumulation in three terrestrial slugs. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 161, 443-449.	1.8	17

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145	Cocoon production of Aporrectodea longa Ude and Aporrectodea rosea Savigny (Oligochaeta;) Tj ETQq1 1 0.784314 rgBT /Overlock	8.8	16
146	Low impact of metal pollution on genetic variation in the earthworm Dendrobaena octaedra measured by allozymes. Pedobiologia, 2008, 52, 51-60.	1.2	16
147	Are commercial stocks of biological control agents genetically depauperate? â€“ A case study on the pirate bug Orius majusculus Reuter. Biological Control, 2018, 127, 31-38.	3.0	16
148	Antifreeze protein complements cryoprotective dehydration in the freeze-avoiding springtail Megaphorura arctica. Scientific Reports, 2020, 10, 3047.	3.3	16
149	A replicated climate change field experiment reveals rapid evolutionary response in an ecologically important soil invertebrate. Global Change Biology, 2016, 22, 2370-2379.	9.5	15
150	Headspace Passive Dosing of Volatile Hydrophobic Organic Chemicals from a Lipid Donorâ€"Linking Their Toxicity to Well-Defined Exposure for an Improved Risk Assessment. Environmental Science & Technology, 2019, 53, 13468-13476.	10.0	15
151	Drought tolerance in eggs and juveniles of the Iberian slug, Arion lusitanicus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2011, 181, 1001-1009.	1.5	14
152	Age-induced perturbation in cell membrane phospholipid fatty acid profile of longevity-selected Drosophila melanogaster and corresponding control lines. Experimental Gerontology, 2013, 48, 1362-1368.	2.8	14
153	Physiological and molecular responses of springtails exposed to phenanthrene and drought. Environmental Pollution, 2014, 184, 370-376.	7.5	14
154	Water relations and drought sensitivity of Folsomia candida eggs (Collembola: Isotomidae). European Journal of Entomology, 0, 116, 229-234.	1.2	14
155	Multivariate metabolic profiling using 1H nuclear magnetic resonance spectroscopy of freeze-tolerant and freeze-intolerant earthworms exposed to frost. Cryo-Letters, 2003, 24, 347-58.	0.3	14
156	The excretion of ammonium by enchytraeids (Cognettia sphagnetorum). Soil Biology and Biochemistry, 2011, 43, 991-996.	8.8	13
157	Ecological and molecular consequences of prolonged drought and subsequent rehydration in Folsomia candida (Collembola). Journal of Insect Physiology, 2012, 58, 130-137.	2.0	13
158	Roles of carbohydrate reserves for local adaptation to low temperatures in the freeze tolerant oligochaete Enchytraeus albidus. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 167-177.	1.5	13
159	Phospholipid fatty acid composition linking larval-density to lifespan of adult Drosophila melanogaster. Experimental Gerontology, 2015, 72, 177-183.	2.8	13
160	Exposure to mercury reduces heat tolerance and heat hardening ability of the springtail Folsomia candida. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 150, 118-123.	2.6	12
161	Effect of repeated freeze-thaw cycles on geographically different populations of the freeze tolerant worm Enchytraeus albidus (Oligochaeta). Journal of Experimental Biology, 2014, 217, 3843-52.	1.7	12
162	Simultaneous Control of Phenanthrene and Drought by Dual Exposure System: The Degree of Synergistic Interactions in Springtails was Exposure Dependent. Environmental Science & Technology, 2014, 48, 9737-9744.	10.0	12

#	Article	IF	Citations
163	Importance of Freezeâ€“Thaw Events in Low Temperature Ecotoxicology of Cold Tolerant Enchytraeids. Environmental Science & Technology, 2014, 48, 9790-9796.	10.0	12
164	Populationâ€specific transcriptional differences associated with freeze tolerance in a terrestrial worm. Ecology and Evolution, 2018, 8, 3774-3786.	1.9	12
165	Screening of cold tolerance in fifteen springtail species. Journal of Thermal Biology, 2018, 77, 1-6.	2.5	12
166	Synergistic interaction between effects of phenanthrene and dynamic heat stress cycles in a soil arthropod. Environmental Pollution, 2019, 254, 113071.	7.5	12
167	Small Dendrobaena earthworms survive freezing better than large worms. Cryobiology, 2007, 54, 298-300.	0.7	11
168	Evolutionary Theory and Studies of Model Organisms Predict a Cautiously Positive Perspective on the Therapeutic Use of Hormesis for Healthy Aging in Humans. Dose-Response, 2010, 8, dose-response.0.	1.6	11
169	Analysis of the shape fluctuations of reconstituted membranes using GUVs made from lipid extracts of invertebrates. Biology Open, 2013, 2, 373-378.	1.2	11
170	Responses of enchytraeids to increased temperature, drought and atmospheric CO2: Results of an eight-year field experiment in dry heathland. European Journal of Soil Biology, 2015, 70, 15-22.	3.2	11
171	Realistic pesticide exposure through water and food amplifies long-term effects in a Limnephilid caddisfly. Science of the Total Environment, 2017, 580, 1439-1445.	8.0	11
172	In situ measurements reveal extremely low pH in soil. Soil Biology and Biochemistry, 2017, 115, 63-65.	8.8	11
173	Comparing Enchytraeus albidus populations from contrasting climatic environments suggest a link between cold tolerance and metabolic activity. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 224, 35-41.	1.8	11
174	Compartmentation and effects of lead (Pb) in the collembolan, Folsomia candida. Environmental Science and Pollution Research, 2020, 27, 43638-43645.	5.3	11
175	Preservation of the invasive ctenophore Mnemiopsis leidyi using acidic Lugol's solution. Journal of Plankton Research, 2009, 31, 917-920.	1.8	10
176	Earthworm colonisation of abandoned arable soil polluted by copper. Pedobiologia, 2012, 55, 63-65.	1.2	10
177	Integration of thermal time and hydrotime models to describe the development and growth of temperate earthworms. Soil Biology and Biochemistry, 2013, 63, 50-60.	8.8	10
178	Salinity changes impact of hazardous chemicals in Enchytraeus albidus. Environmental Toxicology and Chemistry, 2015, 34, 2159-2166.	4.3	10
179	Membrane properties of Enchytraeus albidus originating from contrasting environments: a comparative analysis. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2015, 185, 389-400.	1.5	10
180	Exposure to mercury reduces cold tolerance in the springtail Folsomia candida. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2008, 148, 172-177.	2.6	9

#	Article	IF	Citations
181	Worms from the Arctic are better adapted to freezing and high salinity than worms from temperate regions: Oxidative stress responses in Enchytraeus albidus. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2013, 166, 582-589.	1.8	9
182	Earthworms accumulate alanine in response to drought. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 199, 8-13.	1.8	9
183	Temperature-Dependent Toxicokinetics of Phenanthrene in Enchytraeus albidus (Oligochaeta). Environmental Science & Technology, 2021, 55, 1876-1884.	10.0	9
184	Freezing of body fluids induces metallothionein gene expression in earthworms (Dendrobaena) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 44-48.	2.6	8
185	Combined effects of drought and cold acclimation on phospholipid fatty acid composition and cold-shock tolerance in the springtail Protaphorura fimata. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 225-236.	1.5	8
186	Transcriptome sequencing, de novo assembly and annotation of the freeze tolerant earthworm, Dendrobaena octaedra. Gene Reports, 2018, 13, 180-191.	0.8	8
187	FIELD ASSESSMENT OF TOXIC EFFECTS ON REPRODUCTION IN THE EARTHWORMS APORRECTODEA LONGA AND APORRECTODEA ROSEA. Environmental Toxicology and Chemistry, 2000, 19, 1781.	4.3	8
188	Soil dwelling springtails are resilient to extreme drought in soil, but their reproduction is highly sensitive to small decreases in soil water potential. Geoderma, 2022, 421, 115913.	5.1	8
189	Recovery period of Folsomia candida influence the impact of nonylphenol and phenanthrene on the tolerance of drought and heat shock. Environmental Pollution, 2019, 254, 113105.	7.5	7
190	Food quality of Ephestia eggs, the aphid Rhopalosiphum padi and mixed diet for Orius majusculus. Journal of Applied Entomology, 2020, 144, 251-262.	1.8	7
191	COMBINED EFFECTS OF COPPER, DESICCATION, AND FROST ON THE VIABILITY OF EARTHWORM COCOONS. Environmental Toxicology and Chemistry, 1998, 17, 897.	4.3	7
192	Deviation from apomictic reproduction in Dendrobaena octaedra?. Hereditas, 2008, 145, 212-214.	1.4	6
193	Increased lipid accumulation but not reduced metabolism explains improved starvation tolerance in cold-acclimated arthropod predators. Die Naturwissenschaften, 2018, 105, 65.	1.6	6
194	Joint impact of competition, summer precipitation, and maternal effects on survival and reproduction in the perennial Hieracium umbellatum. Evolutionary Ecology, 2018, 32, 529-545.	1.2	6
195	The springtail Megaphorura arctica survives extremely high osmolality of body fluids during drought. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2018, 188, 939-945.	1.5	6
196	Temperature responses in a subarctic springtail from two geothermally warmed habitats. Pedobiologia, 2020, 78, 150606.	1.2	6
197	Candidate gene expression associated with geographical variation in cryoprotective dehydration of Megaphorura arctica. Journal of Insect Physiology, 2013, 59, 804-811.	2.0	5
198	Interactive effects of temperature and time on cold tolerance and spring predation in overwintering soil predatory mites (Gaeolaelaps aculeifer Canestrini). Biological Control, 2019, 132, 169-176.	3.0	5

#	Article	IF	Citations
199	Preyâ€specific impact of cold preâ€exposure on kill rate and reproduction. Journal of Animal Ecology, 2019, 88, 258-268.	2.8	5
200	Effects of Î±-pinene on life history traits and stress tolerance in the springtail Folsomia candida. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 229, 108681.	2.6	5
201	Salinity of the growth medium is important for production potential and nutritional value of white worms (Enchytraeus albidusHenle). Aquaculture Research, 2020, 51, 2885-2892.	1.8	5
202	Thermal optimum for mass production of the live feed organism Enchytraeus albidus. Journal of Thermal Biology, 2021, 97, 102865.	2.5	5
203	Thermal plasticity and sensitivity to insecticides in populations of an invasive beetle: Cyfluthrin increases vulnerability to extreme temperature. Chemosphere, 2021, 274, 129905.	8.2	5
204	Genetic differentiation of the parthenogenetic soil collembolan Isotoma notabilis along a copper gradient based on random amplified polymorphic DNA. Pedobiologia, 2004, 48, 297-303.	1.2	4
205	No costs on freeze tolerance in genetically copper adapted earthworm populations (Dendrobaena) Tj ETQq1 1 0.784314 rgBT /Overlo 204-207.	2.6	4
206	Reprint of: The ins and outs of water dynamics in cold tolerant soil invertebrates. Journal of Thermal Biology, 2015, 54, 30-36.	2.5	4
207	Increased frequency of freeze-thaw events in a future climate can significantly increase negative effects of copper on enchytraeids. Applied Soil Ecology, 2016, 107, 272-278.	4.3	4
208	Seasonal variation in the prevalence of equine tapeworms using coprological diagnosis during a seven-year period in Denmark. Veterinary Parasitology: Regional Studies and Reports, 2018, 12, 22-25.	0.5	4
209	Prey-specific experience affects prey preference and time to kill in the soil predatory mite Gaeolaelaps aculeifer Canestrini. Biological Control, 2019, 139, 104076.	3.0	4
210	EFFECTS AND RISK ASSESSMENT OF LINEAR ALKYLBENZENE SULFONATES IN AGRICULTURAL SOIL. 4. THE INFLUENCE OF SALT SPECIATION, SOIL TYPE, AND SEWAGE SLUDGE ON TOXICITY USING THE COLLEMBOLAN FOLSOMIA FIMETARIA AND THE EARTHWORM APORRECTODEA CALIGINOSA AS TEST ORGANISMS. Environmental Toxicology and Chemistry, 2001, 20, 1680.	4.3	4
211	Communities of Collembola show functional resilience in a long-term field experiment simulating climate change. Pedobiologia, 2022, 90, 150789.	1.2	4
212	Linking membrane physical properties and low temperature tolerance in arthropods. Cryobiology, 2013, 67, 383-385.	0.7	3
213	Uptake and Elimination of 4-Nonylphenol in the Enchytraeid Enchytraeus albidus. Bulletin of Environmental Contamination and Toxicology, 2016, 96, 156-161.	2.7	3
214	On the problems of using linear models in ecological manipulation experiments: lessons learned from a climate experiment. Ecosphere, 2018, 9, e02322.	2.2	3
215	Mercury (Hg2+) interferes with physiological adaptations to freezing in the arctic earthworm Enchytraeus albidus. Ecotoxicology and Environmental Safety, 2020, 204, 111005.	6.0	3
216	Earthworm burrow number and vertical distribution are affected by the crop sequence of a grass-clover rotation system. European Journal of Soil Biology, 2021, 103, 103294.	3.2	3

#	Article	IF	Citations
217	Analysis of heat and cold tolerance of a freeze-tolerant soil invertebrate distributed from temperate to Arctic regions: evidence of selection for extreme cold tolerance. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2022, 192, 435-445.	1.5	3
218	Temperature-dependent trade-offs in maternal investments: An experimental test with two closely related soil microarthropods. European Journal of Soil Biology, 2022, 110, 103402.	3.2	3
219	Genetic and physiological differences between two morphs of the lumbricid earthworm Dendrodrilus rubidus (Savigny, 1826). Soil Biology and Biochemistry, 1996, 28, 1105-1107.	8.8	2
220	Associations between soil texture, soil water characteristics and earthworm populations in grassland. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2011, 61, 583-592.	0.6	2
221	A new strategy in rearing of European flounder: using live Enchytraeus albidus to enhance juvenile growth. Journal of Insects As Food and Feed, 2022, 8, 1333-1341.	3.9	2
222	A tribute to Karl Erik Zachariassen. Journal of Insect Physiology, 2011, 57, 1061-1065.	2.0	1
223	Field and laboratory studies on drought tolerance and water balance in adult Pergalumna nervosa (Acari: Oribatida: Galumnidae). European Journal of Entomology, 0, 114, 86-91.	1.2	1
224	Acidic Lugolâ€™s solution as an effective fixative for flounder eggs. Journal of Applied Ichthyology, 2012, 28, 261-263.	0.7	0
225	Survival and predation rate of wild-caught and commercially produced Orius majusculus (Reuter) (Hemiptera: Anthocoridae). Bulletin of Entomological Research, 2021, , 1-7.	1.0	0