Melody S Clark

List of Publications by Year
in descending order

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246	15,273	19657 61	24258 110
papers	citations	h-index	g-index

252	252	252	14033
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Whole-Genome Shotgun Assembly and Analysis of the Genome of Fugu rubripes. Science, 2002, 297, 1301-1310.	12.6	1,432
2	Climate change and the marine ecosystem of the western Antarctic Peninsula. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 149-166.	4.0	343
3	Extreme sensitivity of biological function to temperature in Antarctic marine species. Functional Ecology, 2004, 18, 625-630.	3.6	332
4	Animal temperature limits and ecological relevance: effects of size, activity and rates of change. Functional Ecology, 2009, 23, 248-256.	3.6	311
5	Macrophysiology: A Conceptual Reunification. American Naturalist, 2009, 174, 595-612.	2.1	298
6	The spatial structure of Antarctic biodiversity. Ecological Monographs, 2014, 84, 203-244.	5.4	286
7	Environmental constraints on life histories in Antarctic ecosystems: tempos, timings and predictability. Biological Reviews, 2006, 81, 75.	10.4	278
8	Polar gigantism dictated by oxygen availability. Nature, 1999, 399, 114-115.	27.8	272
9	Extreme Responses to Climate Change in Antarctic Lakes. Science, 2002, 295, 645-645.	12.6	267
10	Climate Change and Invasibility of the Antarctic Benthos. Annual Review of Ecology, Evolution, and Systematics, 2007, 38, 129-154.	8.3	248
11	How insects survive the cold: molecular mechanismsâ€”a review. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2008, 178, 917-933.	1.5	225
12	Antarctic environmental change and biological responses. Science Advances, 2019, 5, eaaz0888.	10.3	215
13	Ecophysiology of Antarctic marine ectotherms: limits to life. Polar Biology, 2002, 25, 31-40.	1.2	193
14	Polar research: Six priorities for Antarctic science. Nature, 2014, 512, 23-25.	27.8	189
15	Acclimation and thermal tolerance in Antarctic marine ectotherms. Journal of Experimental Biology, 2014, 217, 16-22.	1.7	187
16	The ocean sampling day consortium. GigaScience, 2015, 4, 27.	6.4	185
17	Upper Temperature Limits of Tropical Marine Ectotherms: Global Warming Implications. PLoS ONE, 2011, 6, e29340.	2.5	176
18	Insights into shell deposition in the Antarctic bivalve Laternula elliptica: gene discovery in the mantle transcriptome using 454 pyrosequencing. BMC Genomics, 2010, 11, 362.	2.8	160

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19	Adult acclimation to combined temperature and p<scp>H</scp> stressors significantly enhances reproductive outcomes compared to shortâ€term exposures. Journal of Animal Ecology, 2015, 84, 773-784.	2.8	159
20	A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. Antarctic Science, 2015, 27, 3-18.	0.9	158
21	Metabolic Demand, Oxygen Supply, and Critical Temperatures in the Antarctic BivalveLaternula elliptica. Physiological and Biochemical Zoology, 2002, 75, 123-133.	1.5	144
22	HSP70 heat shock proteins and environmental stress in Antarctic marine organisms: A mini-review. Marine Genomics, 2009, 2, 11-18.	1.1	144
23	Marine invertebrate skeleton size varies with latitude, temperature and carbonate saturation: implications for global change and ocean acidification. Global Change Biology, 2012, 18, 3026-3038.	9.5	131
24	Characterisation, expression and promoter analysis of an interleukin 10 homologue in the puffer fish, Fugu rubripes. Immunogenetics, 2003, 55, 325-335.	2.4	130
25	Early Larval Development of the Sydney Rock OysterSaccostrea glomerataUnder Near-Future Predictions of CO₂-Driven Ocean Acidification. Journal of Shellfish Research, 2009, 28, 431-437.	0.9	129
26	Poor acclimation capacities in Antarctic marine ectotherms. Marine Biology, 2010, 157, 2051-2059.	1.5	122
27	Insights from the Shell Proteome: Biomineralization to Adaptation. Molecular Biology and Evolution, 2017, 34, 66-77.	8.9	120
28	Links between the structure of an Antarctic shallow-water community and ice-scour frequency. Oecologia, 2004, 141, 121-129.	2.0	118
29	A Cold Limit to Adaptation in the Sea. Trends in Ecology and Evolution, 2016, 31, 13-26.	8.7	116
30	Temperature and basal metabolism in two Antarctic marine herbivores. Journal of Experimental Marine Biology and Ecology, 1989, 127, 1-12.	1.5	113
31	Antarctic marine molluscs do have an HSP70 heat shock response. Cell Stress and Chaperones, 2008, 13, 39-49.	2.9	112
32	Organisms and responses to environmental change. Marine Genomics, 2011, 4, 237-243.	1.1	112
33	Evolution of secretin family GPCR members in the metazoa. BMC Evolutionary Biology, 2006, 6, 108.	3.2	110
34	Hyperoxia alleviates thermal stress in the Antarctic bivalve, Laternula elliptica: evidence for oxygen limited thermal tolerance. Polar Biology, 2006, 29, 688-693.	1.2	106
35	Growth and metabolism in the Antarctic brachiopod Liothyrella uva. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 851-858.	4.0	103
36	Variability and change in the west Antarctic Peninsula marine system: Research priorities and opportunities. Progress in Oceanography, 2019, 173, 208-237.	3.2	102

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37	Amphipod crustacean size spectra: new insights in the relationship between size and oxygen. Oikos, 2004, 106, 167-175.	2.7	101
38	Divergent transcriptomic responses to repeated and single cold exposures in Drosophila melanogaster. Journal of Experimental Biology, 2011, 214, 4021-4029.	1.7	101
39	Antarctic Marine Biodiversity: Adaptations, Environments and Responses to Change. , 2018, , 105-236.		99
40	Temperature limits to activity, feeding and metabolism in the Antarctic starfish Odontaster validus. Marine Ecology - Progress Series, 2008, 358, 181-189.	1.9	97
41	Gene expression associated with changes in cold tolerance levels of the Antarctic springtail, Cryptopygus antarcticus. Insect Molecular Biology, 2010, 19, 113-120.	2.0	92
42	Warming by 1Â°C Drives Species and Assemblage Level Responses in Antarcticaâ€™s Marine Shallows. Current Biology, 2017, 27, 2698-2705.e3.	3.9	91
43	DNA barcoding: A molecular tool to identify Antarctic marine larvae. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1053-1060.	1.4	89
44	The HSP70 heat shock response in the Antarctic fish Harpagifer antarcticus. Polar Biology, 2007, 31, 171-180.	1.2	87
45	Antarctica: The final frontier for marine biological invasions. Global Change Biology, 2019, 25, 2221-2241.	9.5	87
46	Hypoxia impacts large adults first: consequences in a warming world. Global Change Biology, 2013, 19, 2251-2263.	9.5	86
47	Triggers of the HSP70 stress response: environmental responses and laboratory manipulation in an Antarctic marine invertebrate (Nacella concinna). Cell Stress and Chaperones, 2009, 14, 649-660.	2.9	85
48	Dosage sex-chromosome systems in plants. Plant Science, 1991, 80, 79-92.	3.6	84
49	The distribution, abundance and seasonality of pelagic marine invertebrate larvae in the maritime Antarctic. Philosophical Transactions of the Royal Society B: Biological Sciences, 1999, 354, 471-484.	4.0	84
50	Discovering genes associated with dormancy in the monogonont rotifer Brachionus plicatilis. BMC Genomics, 2009, 10, 108.	2.8	84
51	Lack of acclimation in Ophionotus victoriae: brittle stars are not fish. Polar Biology, 2009, 32, 399-402.	1.2	84
52	Lack of an HSP70 heat shock response in two Antarctic marine invertebrates. Polar Biology, 2008, 31, 1059-1065.	1.2	83
53	Surviving the cold: molecular analyses of insect cryoprotective dehydration in the Arctic springtail Megaphorura arctica (Tullberg). BMC Genomics, 2009, 10, 328.	2.8	82
54	Generation and Analysis of 25 Mb of Genomic DNA from the Pufferfish Fugu rubripes by Sequence Scanning. Genome Research, 1999, 9, 960-971.	5.5	81

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55	The identification and characterization of microsatellites in the compact genome of the japanese pufferfish, Fugu rubripes: perspectives in functional and comparative genomic analyses. Journal of Molecular Biology, 1998, 278, 843-854.	4.2	80
56	Biodiversity in marine invertebrate responses to acute warming revealed by a comparative multiâ€omics approach. Global Change Biology, 2017, 23, 318-330.	9.5	80
57	The physiology of polar marine zooplankton. Polar Research, 1991, 10, 355-370.	1.6	79
58	Life in the intertidal: Cellular responses, methylation and epigenetics. Functional Ecology, 2018, 32, 1982-1994.	3.6	79
59	The myth of metabolic cold adaptation: oxygen consumption in stenothermal Antarctic bivalves. Geological Society Special Publication, 2000, 177, 441-450.	1.3	78
60	Recolonisation of meiofauna after catastrophic iceberg scouring in shallow Antarctic sediments. Polar Biology, 2001, 24, 918-925.	1.2	76
61	RAD sequencing resolves fine-scale population structure in a benthic invertebrate: implications for understanding phenotypic plasticity. Royal Society Open Science, 2017, 4, 160548.	2.4	75
62	Antarctic Krill 454 Pyrosequencing Reveals Chaperone and Stress Transcriptome. PLoS ONE, 2011, 6, e15919.	2.5	73
63	A horizon scan of global conservation issues for 2012. Trends in Ecology and Evolution, 2012, 27, 12-18.	8.7	64
64	Low-temperature protein metabolism: seasonal changes in protein synthesis and RNA dynamics in the Antarctic limpet Nacella concinna Strebel 1908. Journal of Experimental Biology, 2002, 205, 3077-3086.	1.7	64
65	Deciphering mollusc shell production: the roles of genetic mechanisms through to ecology, aquaculture and biomimetics. Biological Reviews, 2020, 95, 1812-1837.	10.4	63
66	Identification of molecular and physiological responses to chronic environmental challenge in an invasive species: the <scp>P</scp>acific oyster, <scp>C</scp>rassostrea gigas. Ecology and Evolution, 2013, 3, 3283-3297.	1.9	62
67	Characterization of the MHC classï¿½I region of the Japanese pufferfish (Fugu rubripes). Immunogenetics, 2001, 52, 174-185.	2.4	61
68	Surviving extreme polar winters by desiccation: clues from Arctic springtail (Onychiurus arcticus) EST libraries. BMC Genomics, 2007, 8, 475.	2.8	61
69	Latitudinal and depth gradients in marine predation pressure. Global Ecology and Biogeography, 2016, 25, 670-678.	5.8	61
70	Molecular mechanisms of biomineralization in marine invertebrates. Journal of Experimental Biology, 2020, 223, .	1.7	61
71	Tolerance of Antarctic soil fungi to hydrocarbons. Science of the Total Environment, 2007, 372, 539-548.	8.0	60
72	Geographical variation in thermal tolerance within Southern Ocean marine ectotherms. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 153, 154-161.	1.8	60

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73	Ocean acidification does not impact shell growth or repair of the Antarctic brachiopod Liothyrella uva (Broderip, 1833). Journal of Experimental Marine Biology and Ecology, 2015, 462, 29-35.	1.5	60
74	Blue mussel shell shape plasticity and natural environments: a quantitative approach. Scientific Reports, 2018, 8, 2865.	3.3	60
75	Juveniles Are More Resistant to Warming than Adults in 4 Species of Antarctic Marine Invertebrates. PLoS ONE, 2013, 8, e66033.	2.5	59
76	Transcription profiling of acute temperature stress in the Antarctic plunderfish Harpagifer antarcticus. Marine Genomics, 2010, 3, 35-44.	1.1	58
77	Skin healing and scale regeneration in fed and unfed sea bream, Sparus auratus. BMC Genomics, 2011, 12, 490.	2.8	58
78	Two methods for the assessment of the oxygen content of small volumes of seawater. Journal of Experimental Marine Biology and Ecology, 1990, 141, 53-62.	1.5	57
79	The effects of temperature on walking and righting in temperate and Antarctic crustaceans. Polar Biology, 2006, 29, 978-987.	1.2	57
80	Physiological plasticity, long term resistance or acclimation to temperature, in the Antarctic bivalve, Laternula elliptica. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2012, 162, 16-21.	1.8	57
81	Transcriptome and Peptidome Characterisation of the Main Neuropeptides and Peptidic Hormones of a Euphausiid: The Ice Krill, Euphausia crystallorophias. PLoS ONE, 2013, 8, e71609.	2.5	57
82	Very slow development in two Antarctic bivalve molluscs, the infaunal clam Laternula elliptica and the scallop Adamussium colbecki. Marine Biology, 2007, 150, 1191-1197.	1.5	55
83	Low-temperature protein metabolism: seasonal changes in protein synthesis and RNA dynamics in the Antarctic limpet Nacella concinna Strebel 1908. Journal of Experimental Biology, 2002, 205, 3077-86.	1.7	55
84	Thermal limits of burrowing capacity are linked to oxygen availability and size in the Antarctic clam Laternula elliptica. Oecologia, 2007, 154, 479-484.	2.0	54
85	Correlative and dynamic species distribution modelling for ecological predictions in the Antarctic: a cross-disciplinary concept. Polar Research, 2012, 31, 11091.	1.6	54
86	Genomic structure and expression of parathyroid hormone-related protein gene (PTHrP) in a teleost, Fugu rubripes. Gene, 2000, 250, 67-76.	2.2	53
87	No evidence for genetic differentiation between Antarctic limpet Nacella concinna morphotypes. Marine Biology, 2010, 157, 765-778.	1.5	53
88	Iceberg Scour and Shell Damage in the Antarctic Bivalve Laternula elliptica. PLoS ONE, 2012, 7, e46341.	2.5	53
89	Lack of coherence in the warming responses of marine crustaceans. Functional Ecology, 2014, 28, 895-903.	3.6	53
90	Key metabolic pathways involved in xenobiotic biotransformation and stress responses revealed by transcriptomics of the mangrove oyster Crassostrea brasiliana. Aquatic Toxicology, 2015, 166, 10-20.	4.0	53

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91	Biomineralization plasticity and environmental heterogeneity predict geographical resilience patterns of foundation species to future change. Global Change Biology, 2019, 25, 4179-4193.	9.5	52
92	The founding charter of the Genomic Observatories Network. GigaScience, 2014, 3, 2.	6.4	51
93	Long-term effects of altered pH and temperature on the feeding energetics of the Antarctic sea urchin,Sterechinus neumayeri. Biodiversity, 2016, 17, 34-45.	1.1	51
94	Revealing higher than expected meiofaunal diversity in Antarctic sediments: a metabarcoding approach. Scientific Reports, 2017, 7, 6094.	3.3	51
95	Delayed arm regeneration in the Antarctic brittle star Ophionotus victoriae. Aquatic Biology, 2007, 1, 45-53.	1.4	50
96	Transcriptional response to heat stress in the Antarctic bivalve Laternula elliptica. Journal of Experimental Marine Biology and Ecology, 2010, 391, 65-72.	1.5	50
97	Bomb signals in old Antarctic brachiopods. Nature, 1996, 380, 207-208.	27.8	49
98	Novel bioactive parathyroid hormone and related peptides in teleost fish. FEBS Letters, 2006, 580, 291-299.	2.8	49
99	Experimental influence of pH on the early life-stages of sea urchins II: increasing parental exposure times gives rise to different responses. Invertebrate Reproduction and Development, 2014, 58, 161-175.	0.8	49
100	Feeding, metabolism and growth in the Antarctic limpet, Nacella concinna (Strebel 1908). Marine Biology, 2001, 138, 553-560.	1.5	48
101	Seasonal variation in the diversity and abundance of pelagic larvae of Antarctic marine invertebrates. Marine Biology, 2009, 156, 2033-2047.	1.5	48
102	Latitudinal trends in shell production cost from the tropics to the poles. Science Advances, 2017, 3, e1701362.	10.3	48
103	Patterns of shell repair in articulate brachiopods indicate size constitutes a refuge from predation. Marine Biology, 2009, 156, 1993-2000.	1.5	47
104	Shell matrix proteins of the clam, Mya truncata: Roles beyond shell formation through proteomic study. Marine Genomics, 2016, 27, 69-74.	1.1	47
105	Hypoxia tolerance associated with activity reduction is a key adaptation for Laternula elliptica seasonal energetics. Oecologia, 2007, 153, 29-36.	2.0	46
106	Characterization of the mantle transcriptome in bivalves: Pecten maximus, Mytilus edulis and Crassostrea gigas. Marine Genomics, 2016, 27, 9-15.	1.1	46
107	A 120â€year record of resilience to environmental change in brachiopods. Global Change Biology, 2018, 24, 2262-2271.	9.5	46
108	Strong Population Genetic Structure in a Broadcast-Spawning Antarctic Marine Invertebrate. Journal of Heredity, 2011, 102, 55-66.	2.4	45

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109	Genomics: applications to Antarctic ecosystems. Polar Biology, 2005, 28, 351-365.	1.2	44
110	Low heat shock thresholds in wild Antarctic inter-tidal limpets (Nacella concinna). Cell Stress and Chaperones, 2008, 13, 51-58.	2.9	44
111	No ocean acidification effects on shell growth and repair in the New Zealand brachiopod Calloria inconspicua (Sowerby, 1846). ICES Journal of Marine Science, 2016, 73, 920-926.	2.5	44
112	Acidification effects on biofouling communities: winners and losers. Global Change Biology, 2015, 21, 1907-1913.	9.5	43
113	Fugu orthologues of human major histocompatibility complex genes: a genome survey. Immunogenetics, 2002, 54, 367-380.	2.4	42
114	The effects of temperature on peripheral neuronal function in eurythermal and stenothermal crustaceans. Journal of Experimental Biology, 2006, 209, 1976-1987.	1.7	42
115	Comparative analysis of a teleost skeleton transcriptome provides insight into its regulation. General and Comparative Endocrinology, 2013, 191, 45-58.	1.8	42
116	Transcriptomic response to shell damage in the Antarctic clam, Laternula elliptica: Time scales and spatial localisation. Marine Genomics, 2015, 20, 45-55.	1.1	42
117	Transcriptomics provides insight into Mytilus galloprovincialis (Mollusca: Bivalvia) mantle function and its role in biomineralisation. Marine Genomics, 2016, 27, 37-45.	1.1	42
118	Comparative genomics: the key to understanding the human genome project. BioEssays, 1999, 21, 121-130.	2.5	41
119	Fugu ESTs: New Resources for Transcription Analysis and Genome Annotation. Genome Research, 2003, 13, 2747-2753.	5.5	41
120	Deciphering the molecular adaptation of the king scallop (Pecten maximus) to heat stress using transcriptomics and proteomics. BMC Genomics, 2015, 16, 988.	2.8	41
121	Physical mapping of the B-hordein loci on barley chromosome 5 by in situ hybridization. Genome, 1989, 32, 925-929.	2.0	40
122	Cold hardening processes in the Antarctic springtail, Cryptopygus antarcticus: Clues from a microarray. Journal of Insect Physiology, 2008, 54, 1356-1362.	2.0	39
123	Swarms of diversity at the gene cox1 in Antarctic krill. Heredity, 2010, 104, 513-518.	2.6	39
124	Deep sequencing of the mantle transcriptome of the great scallop Pecten maximus. Marine Genomics, 2014, 15, 3-4.	1.1	39
125	Diversification, Evolution and Sub-Functionalization of 70kDa Heat-Shock Proteins in Two Sister Species of Antarctic Krill: Differences in Thermal Habitats, Responses and Implications under Climate Change. PLoS ONE, 2015, 10, e0121642.	2.5	38
126	Growth in the slow lane: protein metabolism in the Antarctic limpetNacella concinna(Strebel) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	37

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127	Expression of calcificationâ€related ion transporters during blue mussel larval development. Ecology and Evolution, 2019, 9, 7157-7172.	1.9	37
128	Movements and burrowing activity in the Antarctic bivalve molluscs Laternula elliptica and Yoldia eightsi. Polar Biology, 2004, 27, 357-367.	1.2	35
129	Multi-year observations on the gametogenic ecology of the Antarctic seastar Odontaster validus. Marine Biology, 2007, 153, 15-23.	1.5	35
130	Spatial and temporal variation in the heat tolerance limits of two abundant Southern Ocean invertebrates. Marine Ecology - Progress Series, 2012, 450, 81-92.	1.9	35
131	Turning on the Heat: Ecological Response to Simulated Warming in the Sea. PLoS ONE, 2011, 6, e16050.	2.5	35
132	Antarctic Genomics. Comparative and Functional Genomics, 2004, 5, 230-238.	2.0	34
133	Long-Term Survival of Hydrated Resting Eggs from Brachionus plicatilis. PLoS ONE, 2012, 7, e29365.	2.5	34
134	A Marine Biodiversity Observation Network for Genetic Monitoring of Hard-Bottom Communities (ARMS-MBON). Frontiers in Marine Science, 2020, 7, .	2.5	34
135	Identification and Characterization of a Î² Proteasome Subunit Cluster in the Japanese Pufferfish (Fugu) Tj ETQq1 1 0.784314 rgBT /O	0.8	33
136	The secretin G-protein-coupled receptor family: teleost receptors. Journal of Molecular Endocrinology, 2005, 34, 753-765.	2.5	32
137	Age-related thermal response: the cellular resilience of juveniles. Cell Stress and Chaperones, 2016, 21, 75-85.	2.9	32
138	Calcitonin: characterisation and expression in a teleost fish, Fugu rubripes. Journal of Molecular Endocrinology, 2002, 28, 111-123.	2.5	31
139	Xena, a Full-Length Basal Retroelement from Tetraodontid Fish. Molecular Biology and Evolution, 2002, 19, 247-255.	8.9	29
140	Effects of simulated light regimes on gene expression in Antarctic krill (Euphausia superba Dana). Journal of Experimental Marine Biology and Ecology, 2009, 381, 57-64.	1.5	29
141	Thermal Reaction Norms and the Scale of Temperature Variation: Latitudinal Vulnerability of Intertidal Nacellid Limpets to Climate Change. PLoS ONE, 2012, 7, e52818.	2.5	29
142	The germinal center kinase gene and a novel CDC25-like gene are located in the vicinity of the PYGM gene on 11q13. Human Genetics, 1997, 100, 611-619.	3.8	28
143	Duplicated receptors for VIP and PACAP (VPAC1R and PAC1R) in a teleost fish, Fugu rubripes. Journal of Molecular Endocrinology, 2004, 33, 411-428.	2.5	28
144	Duration tenacity: A method for assessing acclimatory capacity of the Antarctic limpet, Nacella concinna. Journal of Experimental Marine Biology and Ecology, 2011, 399, 39-42.	1.5	28

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145	Dynamic gene expression profiles during arm regeneration in the brittle star Amphiura filiformis. Journal of Experimental Marine Biology and Ecology, 2011, 407, 315-322.	1.5	28
146	Age-dependent expression of stress and antimicrobial genes in the hemocytes and siphon tissue of the Antarctic bivalve, Laternula elliptica, exposed to injury and starvation. Cell Stress and Chaperones, 2014, 19, 15-32.	2.9	28
147	Low global sensitivity of metabolic rate to temperature in calcified marine invertebrates. Oecologia, 2014, 174, 45-54.	2.0	28
148	Reconstructing SALMFamide Neuropeptide Precursor Evolution in the Phylum Echinodermata: Ophiuroid and Crinoid Sequence Data Provide New Insights. Frontiers in Endocrinology, 2015, 6, 2.	3.5	28
149	Thicker Shells Compensate Extensive Dissolution in Brachiopods under Future Ocean Acidification. Environmental Science & Technology, 2019, 53, 5016-5026.	10.0	28
150	Molecular Analysis of the Cold Tolerant Antarctic Nematode, Panagrolaimus davidi. PLoS ONE, 2014, 9, e104526.	2.5	28
151	Protein Synthesis, RNA Concentrations, Nitrogen Excretion, and Metabolism Vary Seasonally in the Antarctic Holothurian Heterocucumis steineni (Ludwig 1898). Physiological and Biochemical Zoology, 2004, 77, 556-569.	1.5	27
152	Characterisation of the mantle transcriptome and biomineralisation genes in the blunt-gaper clam, Mya truncata. Marine Genomics, 2016, 27, 47-55.	1.1	27
153	A Bivalve Biomineralization Toolbox. Molecular Biology and Evolution, 2021, 38, 4043-4055.	8.9	27
154	Unexpected Fine-Scale Population Structure in a Broadcast-Spawning Antarctic Marine Mollusc. PLoS ONE, 2012, 7, e32415.	2.5	26
155	Pedal mucus production by the Antarctic limpet Nacella concinna (Strebel, 1908). Journal of Experimental Marine Biology and Ecology, 1993, 174, 177-192.	1.5	25
156	Gilthead sea bream (Sparus auratus) and European sea bass (Dicentrarchus labrax) expressed sequence tags: Characterization, tissue-specific expression and gene markers. Marine Genomics, 2010, 3, 179-191.	1.1	25
157	Antarctic intertidal limpet ecophysiology: A winterâ€“summer comparison. Journal of Experimental Marine Biology and Ecology, 2011, 403, 39-45.	1.5	25
158	Molecular mechanisms underpinning transgenerational plasticity in the green sea urchin Psammechinus miliaris. Scientific Reports, 2019, 9, 952.	3.3	25
159	Adaptation of Proteins to the Cold in Antarctic Fish: A Role for Methionine?. Genome Biology and Evolution, 2019, 11, 220-231.	2.5	25
160	Resilience in Greenland intertidal Mytilus: The hidden stress defense. Science of the Total Environment, 2021, 767, 144366.	8.0	25
161	Antimicrobial resistance in Antarctica: is it still a pristine environment?. Microbiome, 2022, 10, 71.	11.1	25
162	Rates of assay success and genotyping error when single nucleotide polymorphism genotyping in nonâ€model organisms: a case study in the Antarctic fur seal. Molecular Ecology Resources, 2012, 12, 861-872.	4.8	23

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163	Spatial and temporal dynamics of Antarctic shallow soft-bottom benthic communities: ecological drivers under climate change. BMC Ecology, 2019, 19, 27.	3.0	23
164	Isolation and Characterisation of the Corticotropin Releasing Factor Receptor 1 (CRFR1) Gene in a Teleost Fish,Fugu rubripes. DNA Sequence, 2003, 14, 215-218.	0.7	22
165	Metabolic flexibility: the key to long-term evolutionary success in Bryozoa?. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, S18-21.	2.6	22
166	Depth gradients in shell morphology correlate with thermal limits for activity and ice disturbance in Antarctic limpets. Journal of Experimental Marine Biology and Ecology, 2010, 390, 1-5.	1.5	22
167	Repeated DNA and heterochromatin structure in Rumex acetosa. Heredity, 1993, 70, 527-536.	2.6	21
168	Invertebrate muscle performance at high latitude: swimming activity in the Antarctic scallop, Adamussium colbecki. Polar Biology, 2005, 28, 464-469.	1.2	21
169	Persistence of duplicated PAC1 receptors in the teleost, Sparus auratus. BMC Evolutionary Biology, 2007, 7, 221.	3.2	21
170	Ecological Responses of Maritime Antarctic Lakes to Regional Climate Change. Antarctic Research Series, 2013, , 159-170.	0.2	21
171	Lack of long-term acclimation in Antarctic encrusting species suggests vulnerability to warming. Nature Communications, 2019, 10, 3383.	12.8	21
172	Computationally predicted gene regulatory networks in molluscan biomineralization identify extracellular matrix production and ion transportation pathways. Bioinformatics, 2020, 36, 1326-1332.	4.1	21
173	Legacy and Emerging Persistent Organic Pollutants in Antarctic Benthic Invertebrates near Rothera Point, Western Antarctic Peninsula. Environmental Science & Technology, 2020, 54, 2763-2771.	10.0	21
174	Sweepstake reproductive success and collective dispersal produce chaotic genetic patchiness in a broadcast spawner. Science Advances, 2021, 7, eabj4713.	10.3	21
175	Genomics and Mapping of Teleostei (Bony Fish). Comparative and Functional Genomics, 2003, 4, 182-193.	2.0	19
176	Thermal dependency of burrowing in three species within the bivalve genus Laternula: a latitudinal comparison. Marine Biology, 2009, 156, 1977-1984.	1.5	19
177	Cellular stress responses to chronic heat shock and shell damage in temperate Mya truncata. Cell Stress and Chaperones, 2018, 23, 1003-1017.	2.9	19
178	Transcriptome pyrosequencing of the Antarctic brittle star Ophionotus victoriae. Marine Genomics, 2013, 9, 9-15.	1.1	18
179	Limpet feeding rate and the consistency of physiological response to temperature. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2014, 184, 563-570.	1.5	18
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