Melody S Clark

List of Publications by Citations

244 papers	12,061 citations	57 h-index	99 g-index
252 ext. papers	13,747 ext. citations	5.1 avg, IF	6.62 L-index

#	Paper	IF	Citations
244	Whole-genome shotgun assembly and analysis of the genome of Fugu rubripes. *Science*, **2002**, 297, 1301-10	33.3	1272
243	Climate change and the marine ecosystem of the western Antarctic Peninsula. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2007**, 362, 149-66	5.8	289
242	Extreme sensitivity of biological function to temperature in Antarctic marine species. *Functional Ecology*, **2004**, 18, 625-630	5.6	276
241	Animal temperature limits and ecological relevance: effects of size, activity and rates of change. *Functional Ecology*, **2009**, 23, 248-256	5.6	266
240	Macrophysiology: a conceptual reunification. *American Naturalist*, **2009**, 174, 595-612	3.7	244
239	Environmental constraints on life histories in Antarctic ecosystems: tempos, timings and predictability. *Biological Reviews*, **2006**, 81, 75-109	13.5	239
238	Polar gigantism dictated by oxygen availability. *Nature*, **1999**, 399, 114-115	50.4	230
237	Extreme responses to climate change in Antarctic lakes. *Science*, **2002**, 295, 645	33.3	219
236	Climate Change and Invasibility of the Antarctic Benthos. *Annual Review of Ecology, Evolution, and Systematics*, **2007**, 38, 129-154	13.5	216
235	The spatial structure of Antarctic biodiversity. *Ecological Monographs*, **2014**, 84, 203-244	9	203
234	How insects survive the cold: molecular mechanisms-a review. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2008**, 178, 917-33	2.2	189
233	Ecophysiology of Antarctic marine ectotherms: limits to life. *Polar Biology*, **2002**, 25, 31-40	2	178
232	Polar research: Six priorities for Antarctic science. *Nature*, **2014**, 512, 23-5	50.4	150
231	Insights into shell deposition in the Antarctic bivalve Laternula elliptica: gene discovery in the mantle transcriptome using 454 pyrosequencing. *BMC Genomics*, **2010**, 11, 362	4.5	145
230	Upper temperature limits of tropical marine ectotherms: global warming implications. *PLoS ONE*, **2011**, 6, e29340	3.7	137
229	Acclimation and thermal tolerance in Antarctic marine ectotherms. *Journal of Experimental Biology*, **2014**, 217, 16-22	3	134
228	HSP70 heat shock proteins and environmental stress in Antarctic marine organisms: A mini-review. *Marine Genomics*, **2009**, 2, 11-8	1.9	127

227	The ocean sampling day consortium. *GigaScience*, **2015**, 4, 27	7.6	126
226	Metabolic demand, oxygen supply, and critical temperatures in the Antarctic bivalve Laternula elliptica. *Physiological and Biochemical Zoology*, **2002**, 75, 123-33	2	125
225	Adult acclimation to combined temperature and pH stressors significantly enhances reproductive outcomes compared to short-term exposures. *Journal of Animal Ecology*, **2015**, 84, 773-784	4.7	119
224	A roadmap for Antarctic and Southern Ocean science for the next two decades and beyond. *Antarctic Science*, **2015**, 27, 3-18	1.7	118
223	Characterisation, expression and promoter analysis of an interleukin 10 homologue in the puffer fish, Fugu rubripes. *Immunogenetics*, **2003**, 55, 325-35	3.2	115
222	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	1	113
221	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	11.4	103
220	Links between the structure of an Antarctic shallow-water community and ice-scour frequency. *Oecologia*, **2004**, 141, 121-9	2.9	103
219	Poor acclimation capacities in Antarctic marine ectotherms. *Marine Biology*, **2010**, 157, 2051-2059	2.5	100
218	Antarctic marine molluscs do have an HSP70 heat shock response. *Cell Stress and Chaperones*, **2008**, 13, 39-49	4	99
217	Evolution of secretin family GPCR members in the metazoa. *BMC Evolutionary Biology*, **2006**, 6, 108	3	97
216	Temperature and basal metabolism in two Antarctic marine herbivores. *Journal of Experimental Marine Biology and Ecology*, **1989**, 127, 1-12	2.1	96
215	Hyperoxia alleviates thermal stress in the Antarctic bivalve, Laternula elliptica: evidence for oxygen limited thermal tolerance. *Polar Biology*, **2006**, 29, 688-693	2	89
214	Organisms and responses to environmental change. *Marine Genomics*, **2011**, 4, 237-43	1.9	88
213	Antarctic environmental change and biological responses. *Science Advances*, **2019**, 5, eaaz0888	14.3	88
212	Divergent transcriptomic responses to repeated and single cold exposures in Drosophila melanogaster. *Journal of Experimental Biology*, **2011**, 214, 4021-9	3	86
211	Amphipod crustacean size spectra: new insights in the relationship between size and oxygen. *Oikos*, **2004**, 106, 167-175	4	85
210	A Cold Limit to Adaptation in the Sea. *Trends in Ecology and Evolution*, **2016**, 31, 13-26	10.9	83

209	Temperature limits to activity, feeding and metabolism in the Antarctic starfish Odontaster validus. *Marine Ecology - Progress Series*, **2008**, 358, 181-189	2.6	79
208	DNA barcoding: A molecular tool to identify Antarctic marine larvae. *Deep-Sea Research Part II: Topical Studies in Oceanography*, **2006**, 53, 1053-1060	2.3	78
207	Discovering genes associated with dormancy in the monogonont rotifer Brachionus plicatilis. *BMC Genomics*, **2009**, 10, 108	4.5	77
206	Growth and metabolism in the Antarctic brachiopod Liothyrella uva. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1997**, 352, 851-858	5.8	77
205	Dosage sex-chromosome systems in plants. *Plant Science*, **1991**, 80, 79-92	5.3	77
204	Insights from the Shell Proteome: Biomineralization to Adaptation. *Molecular Biology and Evolution*, **2017**, 34, 66-77	8.3	76
203	Gene expression associated with changes in cold tolerance levels of the Antarctic springtail, Cryptopygus antarcticus. *Insect Molecular Biology*, **2010**, 19, 113-20	3.4	74
202	Surviving the cold: molecular analyses of insect cryoprotective dehydration in the Arctic springtail Megaphorura arctica (Tullberg). *BMC Genomics*, **2009**, 10, 328	4.5	74
201	The HSP70 heat shock response in the Antarctic fish Harpagifer antarcticus. *Polar Biology*, **2007**, 31, 171-180	2	73
200	Recolonisation of meiofauna after catastrophic iceberg scouring in shallow Antarctic sediments. *Polar Biology*, **2001**, 24, 918-925	2	73
199	Warming by 1°C Drives Species and Assemblage Level Responses in Antarctica's Marine Shallows. *Current Biology*, **2017**, 27, 2698-2705.e3	6.3	70
198	Lack of an HSP70 heat shock response in two Antarctic marine invertebrates. *Polar Biology*, **2008**, 31, 1059-1065	2	70
197	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, 843-54	6.5	70
196	Triggers of the HSP70 stress response: environmental responses and laboratory manipulation in an Antarctic marine invertebrate (Nacella concinna). *Cell Stress and Chaperones*, **2009**, 14, 649-60	4	69
195	Hypoxia impacts large adults first: consequences in a warming world. *Global Change Biology*, **2013**, 19, 2251-63	11.4	68
194	Lack of acclimation in Ophionotus victoriae: brittle stars are not fish. *Polar Biology*, **2009**, 32, 399-402	2	67
193	Generation and analysis of 25 Mb of genomic DNA from the pufferfish Fugu rubripes by sequence scanning. *Genome Research*, **1999**, 9, 960-71	9.7	67
192	Antarctic krill 454 pyrosequencing reveals chaperone and stress transcriptome. *PLoS ONE*, **2011**, 6, e15919	3.7	64

191	Variability and change in the west Antarctic Peninsula marine system: Research priorities and opportunities. *Progress in Oceanography*, **2019**, 173, 208-237	3.8	63
190	The physiology of polar marine zooplankton. *Polar Research*, **1991**, 10, 355-370	2	63
189	Antarctic Marine Biodiversity: Adaptations, Environments and Responses to Change **2018**, 105-236		59
188	Characterization of the MHC class I region of the Japanese pufferfish (Fugu rubripes). *Immunogenetics*, **2001**, 52, 174-85	3.2	58
187	A horizon scan of global conservation issues for 2012. *Trends in Ecology and Evolution*, **2012**, 27, 12-18	10.9	57
186	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	5.8	56
185	Transcription profiling of acute temperature stress in the Antarctic plunderfish Harpagifer antarcticus. *Marine Genomics*, **2010**, 3, 35-44	1.9	55
184	RAD sequencing resolves fine-scale population structure in a benthic invertebrate: implications for understanding phenotypic plasticity. *Royal Society Open Science*, **2017**, 4, 160548	3.3	54
183	Geographical variation in thermal tolerance within Southern Ocean marine ectotherms. *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology*, **2009**, 153, 154-61	2.6	53
182	Tolerance of Antarctic soil fungi to hydrocarbons. *Science of the Total Environment*, **2007**, 372, 539-48	10.2	53
181	Biodiversity in marine invertebrate responses to acute warming revealed by a comparative multi-omics approach. *Global Change Biology*, **2017**, 23, 318-330	11.4	52
180	Surviving extreme polar winters by desiccation: clues from Arctic springtail (Onychiurus arcticus) EST libraries. *BMC Genomics*, **2007**, 8, 475	4.5	51
179	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	3	51
178	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	3	51
177	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	2.1	50
176	Genomic structure and expression of parathyroid hormone-related protein gene (PTHrP) in a teleost, Fugu rubripes. *Gene*, **2000**, 250, 67-76	3.8	50
175	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	2.1	50
174	Transcriptome and peptidome characterisation of the main neuropeptides and peptidic hormones of a euphausiid: the Ice Krill, Euphausia crystallorophias. *PLoS ONE*, **2013**, 8, e71609	3.7	50

173	Latitudinal and depth gradients in marine predation pressure. *Global Ecology and Biogeography*, **2016**, 25, 670-678	6.1	50
172	Life in the intertidal: Cellular responses, methylation and epigenetics. *Functional Ecology*, **2018**, 32, 1982-1994	5.9	49
171	Thermal limits of burrowing capacity are linked to oxygen availability and size in the Antarctic clam Laternula elliptica. *Oecologia*, **2007**, 154, 479-84	2.9	49
170	The myth of metabolic cold adaptation: oxygen consumption in stenothermal Antarctic bivalves. *Geological Society Special Publication*, **2000**, 177, 441-450	1.7	48
169	Skin healing and scale regeneration in fed and unfed sea bream, Sparus auratus. *BMC Genomics*, **2011**, 12, 490	4.5	47
168	No evidence for genetic differentiation between Antarctic limpet Nacella concinna morphotypes. *Marine Biology*, **2010**, 157, 765-778	2.5	47
167	Correlative and dynamic species distribution modelling for ecological predictions in the Antarctic: a cross-disciplinary concept. *Polar Research*, **2012**, 31, 11091	2	46
166	Very slow development in two Antarctic bivalve molluscs, the infaunal clam Laternula elliptica and the scallop Adamussium colbecki. *Marine Biology*, **2007**, 150, 1191-1197	2.5	46
165	Juveniles Are More Resistant to Warming than Adults in 4 Species of Antarctic Marine Invertebrates. *PLoS ONE*, **2013**, 8, e66033	3.7	45
164	The effects of temperature on walking and righting in temperate and Antarctic crustaceans. *Polar Biology*, **2006**, 29, 978-987	2	45
163	Identification of molecular and physiological responses to chronic environmental challenge in an invasive species: the Pacific oyster, Crassostrea gigas. *Ecology and Evolution*, **2013**, 3, 3283-97	2.8	44
162	Novel bioactive parathyroid hormone and related peptides in teleost fish. *FEBS Letters*, **2006**, 580, 291-9	3.8	44
161	Antarctica: The final frontier for marine biological invasions. *Global Change Biology*, **2019**, 25, 2221-2241	11.4	43
160	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	0.7	43
159	Hypoxia tolerance associated with activity reduction is a key adaptation for Laternula elliptica seasonal energetics. *Oecologia*, **2007**, 153, 29-36	2.9	42
158	Feeding, metabolism and growth in the Antarctic limpet, Nacella concinna (Strebel 1908). *Marine Biology*, **2001**, 138, 553-560	2.5	42
157	Blue mussel shell shape plasticity and natural environments: a quantitative approach. *Scientific Reports*, **2018**, 8, 2865	4.9	41
156	Iceberg scour and shell damage in the Antarctic bivalve Laternula elliptica. *PLoS ONE*, **2012**, 7, e46341	3.7	41

155	Strong population genetic structure in a broadcast-spawning Antarctic marine invertebrate. *Journal of Heredity*, **2011**, 102, 55-66	2.4	41
154	Delayed arm regeneration in the Antarctic brittle star Ophionotus victoriae. *Aquatic Biology*, **2007**, 1, 45-53	2	41
153	Long-term effects of altered pH and temperature on the feeding energetics of the Antarctic sea urchin, Sterechinus neumayeri. *Biodiversity*, **2016**, 17, 34-45	0.7	41
152	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	5.1	40
151	Seasonal variation in the diversity and abundance of pelagic larvae of Antarctic marine invertebrates. *Marine Biology*, **2009**, 156, 2033-2047	2.5	40
150	Fugu orthologues of human major histocompatibility complex genes: a genome survey. *Immunogenetics*, **2002**, 54, 367-80	3.2	40
149	Bomb signals in old Antarctic brachiopods. *Nature*, **1996**, 380, 207-208	50.4	40
148	Lack of coherence in the warming responses of marine crustaceans. *Functional Ecology*, **2014**, 28, 895-903	3.6	39
147	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	2.6	39
146	Transcriptional response to heat stress in the Antarctic bivalve Laternula elliptica. *Journal of Experimental Marine Biology and Ecology*, **2010**, 391, 65-72	2.1	39
145	Physical mapping of the B-hordein loci on barley chromosome 5 by in situ hybridization. *Genome*, **1989**, 32, 925-929	2.4	38
144	Revealing higher than expected meiofaunal diversity in Antarctic sediments: a metabarcoding approach. *Scientific Reports*, **2017**, 7, 6094	4.9	37
143	Fugu ESTs: new resources for transcription analysis and genome annotation. *Genome Research*, **2003**, 13, 2747-53	9.7	37
142	Genomics: applications to Antarctic ecosystems. *Polar Biology*, **2005**, 28, 351-365	2	37
141	Latitudinal trends in shell production cost from the tropics to the poles. *Science Advances*, **2017**, 3, e1701362	12.5	36
140	A 120-year record of resilience to environmental change in brachiopods. *Global Change Biology*, **2018**, 24, 2262-2271	11.4	35
139	Patterns of shell repair in articulate brachiopods indicate size constitutes a refuge from predation. *Marine Biology*, **2009**, 156, 1993-2000	2.5	35
138	Low heat-shock thresholds in wild Antarctic inter-tidal limpets (Nacella concinna). *Cell Stress and Chaperones*, **2008**, 13, 51-8	4	35

137	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	2.7	34
136	Shell matrix proteins of the clam, Mya truncata: Roles beyond shell formation through proteomic study. *Marine Genomics*, **2016**, 27, 69-74	1.9	34
135	Characterization of the mantle transcriptome in bivalves: Pecten maximus, Mytilus edulis and Crassostrea gigas. *Marine Genomics*, **2016**, 27, 9-15	1.9	34
134	Comparative analysis of a teleost skeleton transcriptome provides insight into its regulation. *General and Comparative Endocrinology*, **2013**, 191, 45-58	3	33
133	Growth in the slow lane: protein metabolism in the Antarctic limpet Nacella concinna (Strebel 1908). *Journal of Experimental Biology*, **2007**, 210, 2691-9	3	33
132	Antarctic genomics. *Comparative and Functional Genomics*, **2004**, 5, 230-8		33
131	Deep sequencing of the mantle transcriptome of the great scallop Pecten maximus. *Marine Genomics*, **2014**, 15, 3-4	1.9	32
130	Swarms of diversity at the gene cox1 in Antarctic krill. *Heredity*, **2010**, 104, 513-8	3.6	32
129	Identification and characterization of a beta proteasome subunit cluster in the Japanese pufferfish (Fugu rubripes). *Journal of Immunology*, **2000**, 165, 4446-52	5.3	32
128	Biomineralization plasticity and environmental heterogeneity predict geographical resilience patterns of foundation species to future change. *Global Change Biology*, **2019**, 25, 4179-4193	11.4	31
127	Acidification effects on biofouling communities: winners and losers. *Global Change Biology*, **2015**, 21, 1907-13	11.4	31
126	Cold hardening processes in the Antarctic springtail, Cryptopygus antarcticus: clues from a microarray. *Journal of Insect Physiology*, **2008**, 54, 1356-62	2.4	31
125	The effects of temperature on peripheral neuronal function in eurythermal and stenothermal crustaceans. *Journal of Experimental Biology*, **2006**, 209, 1976-87	3	31
124	The secretin G-protein-coupled receptor family: teleost receptors. *Journal of Molecular Endocrinology*, **2005**, 34, 753-65	4.5	31
123	Comparative genomics: the key to understanding the Human Genome Project. *BioEssays*, **1999**, 21, 121-30	4.1	31
122	Transcriptomics provides insight into Mytilus galloprovincialis (Mollusca: Bivalvia) mantle function and its role in biomineralisation. *Marine Genomics*, **2016**, 27, 37-45	1.9	31
121	Movements and burrowing activity in the Antarctic bivalve molluscs Laternula elliptica and Yoldia eightsi. *Polar Biology*, **2004**, 27, 357-367	2	30
120	Calcitonin: characterisation and expression in a teleost fish, Fugu rubripes. *Journal of Molecular Endocrinology*, **2002**, 28, 111-23	4.5	30

119	Long-term survival of hydrated resting eggs from Brachionus plicatilis. *PLoS ONE*, **2012**, 7, e29365	3.7	28
118	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, 611-9	6.3	28
117	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	3.7	28
116	Transcriptomic response to shell damage in the Antarctic clam, Laternula elliptica: time scales and spatial localisation. *Marine Genomics*, **2015**, 20, 45-55	1.9	27
115	Multi-year observations on the gametogenic ecology of the Antarctic seastar Odontaster validus. *Marine Biology*, **2007**, 153, 15-23	2.5	26
114	Xena, a full-length basal retroelement from tetraodontid fish. *Molecular Biology and Evolution*, **2002**, 19, 247-55	8.3	26
113	Dynamic gene expression profiles during arm regeneration in the brittle star Amphiura filiformis. *Journal of Experimental Marine Biology and Ecology*, **2011**, 407, 315-322	2.1	25
112	Turning on the heat: ecological response to simulated warming in the sea. *PLoS ONE*, **2011**, 6, e16050	3.7	25
111	Age-related thermal response: the cellular resilience of juveniles. *Cell Stress and Chaperones*, **2016**, 21, 75-85	4	24
110	Duplicated receptors for VIP and PACAP (VPAC1R and PAC1R) in a teleost fish, Fugu rubripes. *Journal of Molecular Endocrinology*, **2004**, 33, 411-28	4.5	24
109	Molecular mechanisms of biomineralization in marine invertebrates. *Journal of Experimental Biology*, **2020**, 223,	3	23
108	Rates of assay success and genotyping error when single nucleotide polymorphism genotyping in non-model organisms: a case study in the Antarctic fur seal. *Molecular Ecology Resources*, **2012**, 12, 861-72	8.4	23
107	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	2.1	23
106	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	2.1	23
105	Characterisation of the mantle transcriptome and biomineralisation genes in the blunt-gaper clam, Mya truncata. *Marine Genomics*, **2016**, 27, 47-55	1.9	22
104	Low global sensitivity of metabolic rate to temperature in calcified marine invertebrates. *Oecologia* , **2014**, 174, 45-54	2.9	22
103	Spatial and temporal variation in the heat tolerance limits of two abundant Southern Ocean invertebrates. *Marine Ecology - Progress Series*, **2012**, 450, 81-92	2.6	22
102	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, 179-91	1.9	22

101	Expression of calcification-related ion transporters during blue mussel larval development. *Ecology and Evolution*, **2019**, 9, 7157-7172	2.8	20
100	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	4	20
99	Protein synthesis, RNA concentrations, nitrogen excretion, and metabolism vary seasonally in the Antarctic holothurian Heterocucumis steineni (Ludwig 1898). *Physiological and Biochemical Zoology*, **2004**, 77, 556-69	2	20
98	Unexpected fine-scale population structure in a broadcast-spawning Antarctic marine mollusc. *PLoS ONE*, **2012**, 7, e32415	3.7	20
97	Deciphering the molecular adaptation of the king scallop (Pecten maximus) to heat stress using transcriptomics and proteomics. *BMC Genomics*, **2015**, 16, 988	4.5	19
96	Thermal reaction norms and the scale of temperature variation: latitudinal vulnerability of intertidal nacellid limpets to climate change. *PLoS ONE*, **2012**, 7, e52818	3.7	19
95	Antarctic intertidal limpet ecophysiology: A winter–summer comparison. *Journal of Experimental Marine Biology and Ecology*, **2011**, 403, 39-45	2.1	19
94	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	2.1	19
93	Isolation and characterisation of the corticotropin releasing factor receptor 1 (CRFR1) gene in a teleost fish, Fugu rubripes. *DNA Sequence*, **2003**, 14, 215-8		19
92	Pedal mucus production by the Antarctic limpet Nacella concinna (Strebel, 1908). *Journal of Experimental Marine Biology and Ecology*, **1993**, 174, 177-192	2.1	19
91	Thicker Shells Compensate Extensive Dissolution in Brachiopods under Future Ocean Acidification. *Environmental Science & Technology*, **2019**, 53, 5016-5026	10.3	18
90	Reconstructing SALMFamide Neuropeptide Precursor Evolution in the Phylum Echinodermata: Ophiuroid and Crinoid Sequence Data Provide New Insights. *Frontiers in Endocrinology*, **2015**, 6, 2	5.7	18
89	Transcriptome pyrosequencing of the Antarctic brittle star Ophionotus victoriae. *Marine Genomics*, **2013**, 9, 9-15	1.9	18
88	Intrinsic gene expression during regeneration in arm explants of Amphiura filiformis. *Journal of Experimental Marine Biology and Ecology*, **2012**, 413, 106-112	2.1	17
87	Repeated DNA and heterochromatin structure in Rumex acetosa. *Heredity*, **1993**, 70, 527-536	3.6	17
86	Ecological Responses of Maritime Antarctic Lakes to Regional Climate Change. *Antarctic Research Series*, **2013**, 159-170		16
85	Persistence of duplicated PAC1 receptors in the teleost, Sparus auratus. *BMC Evolutionary Biology*, **2007**, 7, 221	3	16
84	Genomics and mapping of teleostei (bony fish). *Comparative and Functional Genomics*, **2003**, 4, 182-93		16

83	Invertebrate muscle performance at high latitude: swimming activity in the Antarctic scallop, Adamussium colbecki. *Polar Biology*, **2005**, 28, 464-469	2	16
82	Molecular analysis of the cold tolerant Antarctic nematode, Panagrolaimus davidi. *PLoS ONE*, **2014**, 9, e104526	3.7	16
81	Molecular mechanisms underpinning transgenerational plasticity in the green sea urchin Psammechinus miliaris. *Scientific Reports*, **2019**, 9, 952	4.9	15
80	New microsatellite markers in turbot (Scophthalmus maximus) derived from an enriched genomic library and sequence databases. *Molecular Ecology Notes*, **2005**, 5, 62-64		15
79	Deciphering mollusc shell production: the roles of genetic mechanisms through to ecology, aquaculture and biomimetics. *Biological Reviews*, **2020**, 95, 1812-1837	13.5	15
78	Polar marine biology science in Portugal and Spain: Recent advances and future perspectives. *Journal of Sea Research*, **2013**, 83, 9-29	1.9	14
77	Thermal dependency of burrowing in three species within the bivalve genus Laternula: a latitudinal comparison. *Marine Biology*, **2009**, 156, 1977-1984	2.5	14
76	The transcriptome of metamorphosing flatfish. *BMC Genomics*, **2016**, 17, 413	4.5	13
75	Lack of long-term acclimation in Antarctic encrusting species suggests vulnerability to warming. *Nature Communications*, **2019**, 10, 3383	17.4	13
74	Use of the Japanese pufferfish (Fugu rubripes) in comparative genomics. *Marine Biotechnology*, **2001**, 3, S130-40	3.4	13
73	Three receptor genes for plasminogen related growth factors in the genome of the puffer fish Fugu rubripes. *FEBS Letters*, **1999**, 443, 370-4	3.8	13
72	An Antarctic molluscan biomineralisation tool-kit. *Scientific Reports*, **2016**, 6, 36978	4.9	12
71	Spatial and temporal dynamics of Antarctic shallow soft-bottom benthic communities: ecological drivers under climate change. *BMC Ecology*, **2019**, 19, 27	2.7	12
70	Experimental influence of pH on the early life-stages of sea urchins I: different rates of introduction give rise to different responses. *Invertebrate Reproduction and Development*, **2014**, 58, 148-159	0.7	12
69	Limpet feeding rate and the consistency of physiological response to temperature. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2014**, 184, 563-70	2.2	12
68	Cold hardening induces transfer of fatty acids between polar and nonpolar lipid pools in the Arctic collembollan Megaphorura arctica. *Physiological Entomology*, **2011**, 36, 135-140	1.9	12
67	STRONTIUM LABELLING OF THE SHELL OF THE ANTARCTIC LIMPET NACELLA CONCINNA (STREBEL, 1908). *Journal of Molluscan Studies*, **1996**, 62, 315-325	1.1	12
66	Metabolic responses to temperature stress under elevated pCO2 in Crepidula fornicata. *Journal of Molluscan Studies*, **2015**, 81, 238-246	1.1	10

65	Computationally predicted gene regulatory networks in molluscan biomineralization identify extracellular matrix production and ion transportation pathways. *Bioinformatics*, **2020**, 36, 1326-1332	7.2	10
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