

Gretchen E Hofmann

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

4,418

citations

33

h-index

66

g-index

66

ext. papers

5,211

ext. citations

4.6

avg, IF

5.98

L-index

#	Paper	IF	Citations
63	High-frequency dynamics of ocean pH: a multi-ecosystem comparison. <i>PLoS ONE</i> , 2011 , 6, e28983	3.7	629
62	Living in the now: physiological mechanisms to tolerate a rapidly changing environment. <i>Annual Review of Physiology</i> , 2010 , 72, 127-45	23.1	417
61	The Effect of Ocean Acidification on Calcifying Organisms in Marine Ecosystems: An Organism-to-Ecosystem Perspective. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2010 , 41, 127-147	12.5	355
60	MOSAIC PATTERNS OF THERMAL STRESS IN THE ROCKY INTERTIDAL ZONE: IMPLICATIONS FOR CLIMATE CHANGE. <i>Ecological Monographs</i> , 2006 , 76, 461-479	9	319
59	Transcriptomic response of sea urchin larvae <i>Strongylocentrotus purpuratus</i> to CO ₂ -driven seawater acidification. <i>Journal of Experimental Biology</i> , 2009 , 212, 2579-94	3	211
58	Natural variation and the capacity to adapt to ocean acidification in the keystone sea urchin <i>Strongylocentrotus purpuratus</i> . <i>Global Change Biology</i> , 2013 , 19, 2536-46	11.4	152
57	Adaptation and the physiology of ocean acidification. <i>Functional Ecology</i> , 2013 , 27, 980-990	5.6	128
56	Defining the limits of physiological plasticity: how gene expression can assess and predict the consequences of ocean change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 1733-45	5.8	112
55	Constitutive expression of a stress-inducible heat shock protein gene, hsp70, in phylogenetically distant Antarctic fish. <i>Polar Biology</i> , 2005 , 28, 261-267	2	105
54	Patterns of Hsp gene expression in ectothermic marine organisms on small to large biogeographic scales. <i>Integrative and Comparative Biology</i> , 2005 , 45, 247-55	2.8	103
53	Predicted impact of ocean acidification on a marine invertebrate: elevated CO ₂ alters response to thermal stress in sea urchin larvae. <i>Marine Biology</i> , 2009 , 156, 439-446	2.5	102
52	The ocean acidification seascape and its relationship to the performance of calcifying marine invertebrates: Laboratory experiments on the development of urchin larvae framed by environmentally-relevant pCO ₂ /pH. <i>Journal of Experimental Marine Biology and Ecology</i> , 2011 , 400, 288-295	2.1	95
51	Is cold the new hot? Elevated ubiquitin-conjugated protein levels in tissues of Antarctic fish as evidence for cold-denaturation of proteins in vivo. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2007 , 177, 857-66	2.2	95
50	Transcriptomic responses to ocean acidification in larval sea urchins from a naturally variable pH environment. <i>Molecular Ecology</i> , 2013 , 22, 1609-25	5.7	91
49	Improving Conservation Outcomes with a New Paradigm for Understanding Species' Fundamental and Realized Adaptive Capacity. <i>Conservation Letters</i> , 2016 , 9, 131-137	6.9	88
48	Constitutive roles for inducible genes: evidence for the alteration in expression of the inducible hsp70 gene in Antarctic notothenioid fishes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 287, R429-36	3.2	86
47	Interacting environmental mosaics drive geographic variation in mussel performance and predation vulnerability. <i>Ecology Letters</i> , 2016 , 19, 771-9	10	84

46	Assessing the components of adaptive capacity to improve conservation and management efforts under global change. <i>Conservation Biology</i> , 2015 , 29, 1268-78	6	79
45	A laboratory-based, experimental system for the study of ocean acidification effects on marine invertebrate larvae. <i>Limnology and Oceanography: Methods</i> , 2010 , 8, 441-452	2.6	72
44	Thermotolerance and heat-shock protein expression in Northeastern Pacific <i>Nucella</i> species with different biogeographical ranges. <i>Marine Biology</i> , 2005 , 146, 985-993	2.5	70
43	Temperature and CO ₂ additively regulate physiology, morphology and genomic responses of larval sea urchins, <i>Strongylocentrotus purpuratus</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20130155	4.4	69
42	Ocean pH time-series and drivers of variability along the northern Channel Islands, California, USA. <i>Limnology and Oceanography</i> , 2016 , 61, 953-968	4.8	61
41	Responses of the metabolism of the larvae of <i>Pocillopora damicornis</i> to ocean acidification and warming. <i>PLoS ONE</i> , 2014 , 9, e96172	3.7	49
40	Near-shore Antarctic pH variability has implications for the design of oceanacidification experiments. <i>Scientific Reports</i> , 2015 , 5,	4.9	48
39	Transcriptomic responses to seawater acidification among sea urchin populations inhabiting a natural pH mosaic. <i>Molecular Ecology</i> , 2017 , 26, 2257-2275	5.7	45
38	Genomics-fueled approaches to current challenges in marine ecology. <i>Trends in Ecology and Evolution</i> , 2005 , 20, 305-11	10.9	45
37	Ecological Epigenetics in Marine Metazoans. <i>Frontiers in Marine Science</i> , 2017 , 4,	4.5	43
36	Physiological tolerances across latitudes: thermal sensitivity of larval marine snails (spp.). <i>Marine Biology</i> , 2010 , 157, 707-714	2.5	42
35	Transcriptomics reveal transgenerational effects in purple sea urchin embryos: Adult acclimation to upwelling conditions alters the response of their progeny to differential pCO levels. <i>Molecular Ecology</i> , 2018 , 27, 1120-1137	5.7	41
34	Thermal tolerance of early life history stages: mortality, stress-induced gene expression and biogeographic patterns. <i>Marine Biology</i> , 2010 , 157, 2677-2687	2.5	41
33	Antarctic echinoids and climate change: a major impact on the brooding forms. <i>Global Change Biology</i> , 2011 , 17, 734-744	11.4	40
32	The effect of temperature adaptation on the ubiquitin-proteasome pathway in notothenioid fishes. <i>Journal of Experimental Biology</i> , 2017 , 220, 369-378	3	36
31	Differing patterns of hsp70 gene expression in invasive and native kelp species: evidence for acclimation-induced variation. <i>Journal of Applied Phycology</i> , 2008 , 20, 915-924	3.2	34
30	Signals of resilience to ocean change: high thermal tolerance of early stage Antarctic sea urchins (<i>Sterechinus neumayeri</i>) reared under present-day and future pCO ₂ and temperature. <i>Polar Biology</i> , 2014 , 37, 967-980	2	32
29	Ocean acidification and fertilization in the antarctic sea urchin <i>Sterechinus neumayeri</i> : the importance of polyspermy. <i>Environmental Science & Technology</i> , 2014 , 48, 713-22	10.3	30

28	Transcriptomic response of the Antarctic pteropod <i>Limacina helicina antarctica</i> to ocean acidification. <i>BMC Genomics</i> , 2017 , 18, 812	4.5	28
27	Ocean acidification promotes broad transcriptomic responses in marine metazoans: a literature survey. <i>Frontiers in Zoology</i> , 2020 , 17, 7	2.8	26
26	High-frequency observations of pH under Antarctic sea ice in the southern Ross Sea. <i>Antarctic Science</i> , 2011 , 23, 607-613	1.7	25
25	Variability of Seawater Chemistry in a Kelp Forest Environment Is Linked to in situ Transgenerational Effects in the Purple Sea Urchin, <i>Strongylocentrotus purpuratus</i> . <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	24
24	Transgenerational effects in an ecological context: Conditioning of adult sea urchins to upwelling conditions alters maternal provisioning and progeny phenotype. <i>Journal of Experimental Marine Biology and Ecology</i> , 2019 , 517, 65-77	2.1	19
23	Abiotic versus biotic drivers of ocean pH variation under fast sea ice in McMurdo Sound, Antarctica. <i>PLoS ONE</i> , 2014 , 9, e107239	3.7	19
22	Spatial and temporal variation in distribution and protein ubiquitination for <i>Mytilus</i> congeners in the California hybrid zone. <i>Marine Biology</i> , 2008 , 154, 1067-1075	2.5	18
21	Beyond the benchtop and the benthos: Dataset management planning and design for time series of ocean carbonate chemistry associated with Durafet [®] -based pH sensors. <i>Ecological Informatics</i> , 2016 , 36, 209-220	4.2	17
20	Sensitivity of sea urchin fertilization to pH varies across a natural pH mosaic. <i>Ecology and Evolution</i> , 2017 , 7, 1737-1750	2.8	16
19	Effects of temperature and pCO ₂ on lipid use and biological parameters of planulae of <i>Pocillopora damicornis</i> . <i>Journal of Experimental Marine Biology and Ecology</i> , 2015 , 473, 43-52	2.1	16
18	A transcriptome resource for the Antarctic pteropod <i>Limacina helicina antarctica</i> . <i>Marine Genomics</i> , 2016 , 28, 25-28	1.9	16
17	Ocean acidification research in the 'post-genomic' era: Roadmaps from the purple sea urchin <i>Strongylocentrotus purpuratus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015 , 185, 33-42	2.6	15
16	Lipid consumption in coral larvae differs among sites: a consideration of environmental history in a global ocean change scenario. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017 , 284,	4.4	14
15	Additive effects of CO and temperature on respiration rates of the Antarctic pteropod 2017 , 5, cox064		13
14	Changes in Genome-Wide Methylation and Gene Expression in Response to Future pCO ₂ Extremes in the Antarctic Pteropod <i>Limacina helicina antarctica</i> . <i>Frontiers in Marine Science</i> , 2020 , 6,	4.5	11
13	Examining the Role of DNA Methylation in Transcriptomic Plasticity of Early Stage Sea Urchins: Developmental and Maternal Effects in a Kelp Forest Herbivore. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	11
12	High pCO ₂ affects body size, but not gene expression in larvae of the California mussel (<i>Mytilus californianus</i>). <i>ICES Journal of Marine Science</i> , 2016 , 73, 962-969	2.7	10
11	Host and Symbionts in <i>Pocillopora damicornis</i> Larvae Display Different Transcriptomic Responses to Ocean Acidification and Warming. <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	9

10	Transcriptional profiles of early stage red sea urchins (<i>Mesocentrotus franciscanus</i>) reveal differential regulation of gene expression across development. <i>Marine Genomics</i> , 2019 , 48, 100692	1.9	8
9	Combined stress of ocean acidification and warming influence survival and drives differential gene expression patterns in the Antarctic pteropod, 2020 , 8, coaa013		8
8	Seasonal transcriptomes of the Antarctic pteropod, <i>Limacina helicina antarctica</i> . <i>Marine Environmental Research</i> , 2019 , 143, 49-59	3.3	7
7	The effects of temperature and pCO ₂ on the size, thermal tolerance and metabolic rate of the red sea urchin (<i>Mesocentrotus franciscanus</i>) during early development. <i>Marine Biology</i> , 2020 , 167, 1	2.5	5
6	Mitochondrial genome architecture of the giant red sea urchin <i>Mesocentrotus franciscanus</i> (Strongylocentrotidae, Echinoida). <i>Mitochondrial DNA</i> , 2016 , 27, 591-2		4
5	Exploring impacts of marine heatwaves: paternal heat exposure diminishes fertilization success in the purple sea urchin (<i>Strongylocentrotus purpuratus</i>). <i>Marine Biology</i> , 2021 , 168, 1	2.5	3
4	Shell dissolution observed in <i>Limacina helicina antarctica</i> from the Ross Sea, Antarctica: paired shell characteristics and in situ seawater chemistry		2
3	Gene expression patterns of red sea urchins (<i>Mesocentrotus franciscanus</i>) exposed to different combinations of temperature and pCO ₂ during early development. <i>BMC Genomics</i> , 2021 , 22, 32	4.5	2
2	Gene regulation by DNA methylation is contingent on chromatin accessibility during transgenerational plasticity in the purple sea urchin		1
1	Calcification in a changing ocean: perspectives on a virtual symposium in the biological bulletin. <i>Biological Bulletin</i> , 2014 , 226, 167-8	1.5	