

Matthias Hofmann

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,807
citations

394421

19
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

2749
citing authors

#	ARTICLE	IF	CITATIONS
1	A Pronounced Spike in Ocean Productivity Triggered by the Chicxulub Impact. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092260.	4.0	12
2	A sustainable development pathway for climate action within the UN 2030 Agenda. <i>Nature Climate Change</i> , 2021, 11, 656-664.	18.8	179
3	Climatic fluctuations modeled for carbon and sulfur emissions from end-Triassic volcanism. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116174.	4.4	31
4	On the Sensitivity of the Devonian Climate to Continental Configuration, Vegetation Cover, Orbital Configuration, CO ₂ Concentration, and Insolation. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 1375-1398.	2.9	21
5	Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal. <i>Nature Communications</i> , 2019, 10, 5592.	12.8	19
6	Long-term response of oceans to CO ₂ removal from the atmosphere. <i>Nature Climate Change</i> , 2015, 5, 1107-1113.	18.8	67
7	Effects of sea surface warming on marine plankton. <i>Ecology Letters</i> , 2014, 17, 614-623.	6.4	188
8	Decomposing the effects of ocean warming on chlorophyll <i>a</i> concentrations into physically and biologically driven contributions. <i>Environmental Research Letters</i> , 2013, 8, 014043.	5.2	23
9	The response of Southern Ocean eddies to increased midlatitude westerlies: A non-eddy resolving model study. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	27
10	Declining ocean chlorophyll under unabated anthropogenic CO ₂ emissions. <i>Environmental Research Letters</i> , 2011, 6, 034035.	5.2	41
11	Ocean acidification: a millennial challenge. <i>Energy and Environmental Science</i> , 2010, 3, 1883.	30.8	59
12	On the stability of the Atlantic meridional overturning circulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20584-20589.	7.1	99
13	An Integrated Assessment of changes in the thermohaline circulation. <i>Climatic Change</i> , 2009, 96, 489-537.	3.6	66
14	Oceanic acidification affects marine carbon pump and triggers extended marine oxygen holes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3017-3022.	7.1	162
15	Geothermal heat flux and its influence on the oceanic abyssal circulation and radiocarbon distribution. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	27
16	A lowering effect of reconstructed Holocene changes in sea surface temperatures on the atmospheric CO ₂ concentration. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	22
17	On the driving processes of the Atlantic meridional overturning circulation. <i>Reviews of Geophysics</i> , 2007, 45, .	23.0	491
18	Performance of a second-order moments advection scheme in an Ocean General Circulation Model. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	59

#	ARTICLE	IF	CITATIONS
19	The earth system model of intermediate complexity CLIMBER-3 $\hat{\pm}$. Part I: description and performance for present-day conditions. <i>Climate Dynamics</i> , 2005, 25, 237-263.	3.8	93
20	Ocean biology could control atmospheric $\hat{13}\text{C}$ during glacial-interglacial cycle. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-15.	2.5	31
21	Stable carbon isotope distribution of particulate organic matter in the ocean: a model study. <i>Marine Chemistry</i> , 2000, 72, 131-150.	2.3	74
22	Influence of a $[\text{CO}_2(\text{aq})]$ dependent biological C-isotope fractionation on glacial $^{13}\text{C}/^{12}\text{C}$ ratios in the ocean. <i>Global Biogeochemical Cycles</i> , 1999, 13, 873-883.	4.9	16