Matthias Hofmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1081441/publications.pdf

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22	1,807	394421 19	677142 22
papers	citations	h-index	g-index

23	23	23	2749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the driving processes of the Atlantic meridional overturning circulation. Reviews of Geophysics, 2007, 45, .	23.0	491
2	Effects of sea surface warming on marine plankton. Ecology Letters, 2014, 17, 614-623.	6.4	188
3	A sustainable development pathway for climate action within the UN 2030 Agenda. Nature Climate Change, 2021, 11, 656-664.	18.8	179
4	Oceanic acidification affects marine carbon pump and triggers extended marine oxygen holes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3017-3022.	7.1	162
5	On the stability of the Atlantic meridional overturning circulation. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20584-20589.	7.1	99
6	The earth system model of intermediate complexity CLIMBER-3Î±. Part I: description and performance for present-day conditions. Climate Dynamics, 2005, 25, 237-263.	3.8	93
7	Stable carbon isotope distribution of particulate organic matter in the ocean: a model study. Marine Chemistry, 2000, 72, 131-150.	2.3	74
8	Long-term response of oceans to CO2 removal from the atmosphere. Nature Climate Change, 2015, 5, 1107-1113.	18.8	67
9	An Integrated Assessment of changes in the thermohaline circulation. Climatic Change, 2009, 96, 489-537.	3.6	66
10	Performance of a second-order moments advection scheme in an Ocean General Circulation Model. Journal of Geophysical Research, 2006, 111, .	3.3	59
11	Ocean acidification: a millennial challenge. Energy and Environmental Science, 2010, 3, 1883.	30.8	59
12	Declining ocean chlorophyll under unabated anthropogenic CO ₂ emissions. Environmental Research Letters, 2011, 6, 034035.	5.2	41
13	Ocean biology could control atmospheric Î´13C during glacial-interglacial cycle. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-15.	2.5	31
14	Climatic fluctuations modeled for carbon and sulfur emissions from end-Triassic volcanism. Earth and Planetary Science Letters, 2020, 537, 116174.	4.4	31
15	Geothermal heat flux and its influence on the oceanic abyssal circulation and radiocarbon distribution. Geophysical Research Letters, 2009, 36, .	4.0	27
16	The response of Southern Ocean eddies to increased midlatitude westerlies: A non-eddy resolving model study. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	27
17	Decomposing the effects of ocean warming on chlorophyll a concentrations into physically and biologically driven contributions. Environmental Research Letters, 2013, 8, 014043.	5.2	23
18	A lowering effect of reconstructed Holocene changes in sea surface temperatures on the atmospheric CO₂ concentration. Global Biogeochemical Cycles, 2008, 22, .	4.9	22

#	Article	IF	Citations
19	On the Sensitivity of the Devonian Climate to Continental Configuration, Vegetation Cover, Orbital Configuration, CO ₂ Concentration, and Insolation. Paleoceanography and Paleoclimatology, 2019, 34, 1375-1398.	2.9	21
20	Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal. Nature Communications, 2019, 10, 5592.	12.8	19
21	Influence of a [CO2(aq)] dependent biological C-isotope fractionation on glacial13C/12C ratios in the ocean. Global Biogeochemical Cycles, 1999, 13, 873-883.	4.9	16
22	A Pronounced Spike in Ocean Productivity Triggered by the Chicxulub Impact. Geophysical Research Letters, 2021, 48, e2020GL092260.	4.0	12