Judith Hauck

List of Publications by Year
in descending order

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38 papers	8,963 citations	279701 23 h-index	330025 37 g-index
61 all docs	61 docs citations	61 times ranked	12799 citing authors

#	Article	IF	Citations
1	How Well Do We Understand the Landâ€Oceanâ€Atmosphere Carbon Cycle?. Reviews of Geophysics, 2022, 60, .	9.0	38
2	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	3.7	663
3	Data-based estimates of interannual seaâ€“air CO₂ flux variations 1957â€“2020 and their relation to environmental drivers. Biogeosciences, 2022, 19, 2627-2652.	1.3	21
4	The Panâ€Arctic Continental Slope as an Intensifying Conveyer Belt for Nutrients in the Central Arctic Ocean (1985â€“2015). Global Biogeochemical Cycles, 2022, 36, .	1.9	11
5	Abruptly attenuated carbon sequestration with Weddell Sea dense waters by 2100. Nature Communications, 2022, 13, .	5.8	12
6	Modeling Phytoplankton Blooms and Inorganic Carbon Responses to Seaâ€Ice Variability in the West Antarctic Peninsula. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006227.	1.3	7
7	Modeling the Impact of Macrozooplankton on Carbon Export Production in the Southern Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017315.	1.0	14
8	Metaâ€analysis of multiple driver effects on marine phytoplankton highlights modulating role ofpCO₂. Global Change Biology, 2020, 26, 6787-6804.	4.2	40
9	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. Frontiers in Marine Science, 2020, 7, .	1.2	114
10	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	3.7	1,477
11	Decadal trends in the ocean carbon sink. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11646-11651.	3.3	94
12	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. Reviews of Geophysics, 2019, 57, 623-708.	9.0	105
13	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	3.7	1,159
14	Variability of nutrients and carbon dioxide in the Antarctic Intermediate Water between 1990 and 2014. Ocean Dynamics, 2018, 68, 295-308.	0.9	13
15	Unsteady seasons in the sea. Nature Climate Change, 2018, 8, 97-98.	8.1	3
16	Comment on â€œ Scrutinizing the carbon cycle and CO 2 residence time in the atmosphere â€• by H. Harde. Global and Planetary Change, 2018, 164, 67-71.	1.6	8
17	Evaluation of a global ocean general circulation model; The Lat-Lon-Cap (LLC90) configuration of the MITgcm. IOP Conference Series: Earth and Environmental Science, 2018, 162, 012002.	0.2	0
18	Drivers of Interannual Variability of Summer Mixed Layer Depth in the Southern Ocean Between 2002 and 2011. Journal of Geophysical Research: Oceans, 2018, 123, 5077-5090.	1.0	15

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19	The Fate of Carbon and Nutrients Exported Out of the Southern Ocean. Global Biogeochemical Cycles, 2018, 32, 1556-1573.	1.9	17
20	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	3.7	1,167
21	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	3.7	801
22	Mesoscale features create hotspots of carbon uptake in the Antarctic Circumpolar Current. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 138, 39-51.	0.6	20
23	Temporal changes in ventilation and the carbonate system in the Atlantic sector of the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 138, 26-38.	0.6	13
24	Projected decreases in future marine export production: the role of the carbon flux through the upper ocean ecosystem. Biogeosciences, 2016, 13, 4023-4047.	1.3	106
25	Iron fertilisation and century-scale effects of open ocean dissolution of olivine in a simulated CO ₂ removal experiment. Environmental Research Letters, 2016, 11, 024007.	2.2	58
26	Meteorology and oceanography of the Atlantic sector of the Southern Oceanâ€”a review of German achievements from the last decade. Ocean Dynamics, 2016, 66, 1379-1413.	0.9	12
27	A multi-decade record of high-quality <i>f</i>CO₂ data in version 3 of the Surface Ocean CO₂ Atlas (SOCAT). Earth System Science Data, 2016, 8, 383-413.	3.7	413
28	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	3.7	905
29	On the Southern Ocean CO₂ uptake and the role of the biological carbon pump in the 21st century. Global Biogeochemical Cycles, 2015, 29, 1451-1470.	1.9	85
30	Drivers and uncertainties of future global marine primary production in marine ecosystem models. Biogeosciences, 2015, 12, 6955-6984.	1.3	252
31	Rising atmospheric CO₂ leads to large impact of biology on Southern Ocean CO₂ uptake via changes of the Revelle factor. Geophysical Research Letters, 2015, 42, 1459-1464.	1.5	78
32	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	3.7	616
33	Geoengineering impact of open ocean dissolution of olivine on atmospheric CO ₂ , surface ocean pH and marine biology. Environmental Research Letters, 2013, 8, 014009.	2.2	89
34	Insignificant buffering capacity of Antarctic shelf carbonates. Global Biogeochemical Cycles, 2013, 27, 11-20.	1.9	6
35	Seasonally different carbon flux changes in the Southern Ocean inâ€‰response to the southern annular mode. Global Biogeochemical Cycles, 2013, 27, 1236-1245.	1.9	107
36	Distribution and mineralogy of carbonate sediments on Antarctic shelves. Journal of Marine Systems, 2012, 90, 77-87.	0.9	36

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37	Dataâ€based estimation of anthropogenic carbon and acidification in the Weddell Sea on a decadal timescale. Journal of Geophysical Research, 2010, 115, .	3.3	29
38	Tracking the Variable North Atlantic Sink for Atmospheric CO ₂. Science, 2009, 326, 1391-1393.	6.0	173