

Judith Hauck

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9442944/publications.pdf>

Version: 2024-02-01

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	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	3.7	1,477
2	Global Carbon Budget 2018. Earth System Science Data, 2018, 10, 2141-2194.	3.7	1,167
3	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	3.7	1,159
4	Global Carbon Budget 2016. Earth System Science Data, 2016, 8, 605-649.	3.7	905
5	Global Carbon Budget 2017. Earth System Science Data, 2018, 10, 405-448.	3.7	801
6	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	3.7	663
7	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	3.7	616
8	A multi-decade record of high-quality CO_2 data in version 3 of the Surface Ocean CO_2 Atlas (SOCAT). Earth System Science Data, 2016, 8, 383-413.	3.7	413
9	Drivers and uncertainties of future global marine primary production in marine ecosystem models. Biogeosciences, 2015, 12, 6955-6984.	1.3	252
10	Tracking the Variable North Atlantic Sink for Atmospheric CO_2 . Science, 2009, 326, 1391-1393.	6.0	173
11	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. Frontiers in Marine Science, 2020, 7, .	1.2	114
12	Seasonally different carbon flux changes in the Southern Ocean in response to the southern annular mode. Global Biogeochemical Cycles, 2013, 27, 1236-1245.	1.9	107
13	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
14	The Weddell Gyre, Southern Ocean: Present Knowledge and Future Challenges. Reviews of Geophysics, 2019, 57, 623-708.	9.0	105
15	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
16	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
17	On the Southern Ocean CO_2 uptake and the role of the biological carbon pump in the 21st century. Global Biogeochemical Cycles, 2015, 29, 1451-1470.	1.9	85
18	Rising atmospheric CO_2 leads to large impact of biology on Southern Ocean CO_2 uptake via changes of the Revelle factor. Geophysical Research Letters, 2015, 42, 1459-1464.	1.5	78

#	ARTICLE	IF	CITATIONS
19	Iron fertilisation and century-scale effects of open ocean dissolution of olivine in a simulated CO ₂ removal experiment. <i>Environmental Research Letters</i> , 2016, 11, 024007.	2.2	58
20	Meta-analysis of multiple driver effects on marine phytoplankton highlights modulating role of CO ₂ . <i>Global Change Biology</i> , 2020, 26, 6787-6804.	4.2	40
21	How Well Do We Understand the Land-Ocean-Atmosphere Carbon Cycle?. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	38
22	Distribution and mineralogy of carbonate sediments on Antarctic shelves. <i>Journal of Marine Systems</i> , 2012, 90, 77-87.	0.9	36
23	Data-based estimation of anthropogenic carbon and acidification in the Weddell Sea on a decadal timescale. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	29
24	Data-based estimates of interannual sea-air CO ₂ flux variations 1957-2020 and their relation to environmental drivers. <i>Biogeosciences</i> , 2022, 19, 2627-2652.	1.3	21
25	Mesoscale features create hotspots of carbon uptake in the Antarctic Circumpolar Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 138, 39-51.	0.6	20
26	The Fate of Carbon and Nutrients Exported Out of the Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1556-1573.	1.9	17
27	Drivers of Interannual Variability of Summer Mixed Layer Depth in the Southern Ocean Between 2002 and 2011. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5077-5090.	1.0	15
28	Modeling the Impact of Macrozooplankton on Carbon Export Production in the Southern Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017315.	1.0	14
29	Temporal changes in ventilation and the carbonate system in the Atlantic sector of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 138, 26-38.	0.6	13
30	Variability of nutrients and carbon dioxide in the Antarctic Intermediate Water between 1990 and 2014. <i>Ocean Dynamics</i> , 2018, 68, 295-308.	0.9	13
31	Meteorology and oceanography of the Atlantic sector of the Southern Ocean—a review of German achievements from the last decade. <i>Ocean Dynamics</i> , 2016, 66, 1379-1413.	0.9	12
32	Abruptly attenuated carbon sequestration with Weddell Sea dense waters by 2100. <i>Nature Communications</i> , 2022, 13, .	5.8	12
33	The Pan-Arctic Continental Slope as an Intensifying Conveyor Belt for Nutrients in the Central Arctic Ocean (1985-2015). <i>Global Biogeochemical Cycles</i> , 2022, 36, .	1.9	11
34	Comment on "Scrutinizing the carbon cycle and CO ₂ residence time in the atmosphere" by H. Harde. <i>Global and Planetary Change</i> , 2018, 164, 67-71.	1.6	8
35	Modeling Phytoplankton Blooms and Inorganic Carbon Responses to Sea-Ice Variability in the West Antarctic Peninsula. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006227.	1.3	7
36	Insignificant buffering capacity of Antarctic shelf carbonates. <i>Global Biogeochemical Cycles</i> , 2013, 27, 11-20.	1.9	6

#	ARTICLE	IF	CITATIONS
37	Unsteady seasons in the sea. Nature Climate Change, 2018, 8, 97-98.	8.1	3
38	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