

Peter LandschÄ¼tzer

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

13,269
citations

87226

37
h-index

115754

61
g-index

116
all docs

116
docs citations

116
times ranked

17215
citing authors

#	ARTICLE	IF	CITATIONS
1	A multi-decade record of high-quality CO_2 data in version 3 of the Surface Ocean CO_2 Atlas (SOCAT). <i>Earth System Science Data</i> , 2016, 8, 383-413.	8.8	436
2	Recent variability of the global ocean carbon sink. <i>Global Biogeochemical Cycles</i> , 2014, 28, 927-949.	4.7	338
3	Decadal variations and trends of the global ocean carbon sink. <i>Global Biogeochemical Cycles</i> , 2016, 30, 1396-1417.	4.7	263
4	The Variable Southern Ocean Carbon Sink. <i>Annual Review of Marine Science</i> , 2019, 11, 159-186.	12.3	184
5	A neural network-based estimate of the seasonal to inter-annual variability of the Atlantic Ocean carbon sink. <i>Biogeosciences</i> , 2013, 10, 7793-7815.	3.4	181
6	Data-based estimates of the ocean carbon sink variability – first results of the Surface Ocean CO_2 Mapping intercomparison (SOCOM). <i>Biogeosciences</i> , 2015, 12, 7251-7278.	3.4	180
7	A uniform, quality controlled Surface Ocean CO_2 Atlas (SOCAT). <i>Earth System Science Data</i> , 2013, 5, 125-143.	8.8	165
8	An update to the Surface Ocean CO_2 Atlas (SOCAT version 2). <i>Earth System Science Data</i> , 2014, 6, 69-90.	8.8	163
9	Revised estimates of ocean-atmosphere CO_2 flux are consistent with ocean carbon inventory. <i>Nature Communications</i> , 2020, 11, 4422.	13.0	151
10	An assessment of the Atlantic and Arctic sea-air CO_2 fluxes, 1990–2009. <i>Biogeosciences</i> , 2013, 10, 607-627.	3.4	138
11	Trends and drivers in global surface ocean pH over the past 3 decades. <i>Biogeosciences</i> , 2015, 12, 1285-1298.	3.4	120
12	Strengthening seasonal marine CO_2 variations due to increasing atmospheric CO_2 . <i>Nature Climate Change</i> , 2018, 8, 146-150.	14.2	114
13	Reassessing Southern Ocean Air-Sea CO_2 Flux Estimates With the Addition of Biogeochemical Float Observations. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1370-1388.	4.7	112
14	Surface Ocean CO_2 Atlas (SOCAT) gridded data products. <i>Earth System Science Data</i> , 2013, 5, 145-153.	8.8	104
15	The Spatiotemporal Dynamics of the Sources and Sinks of CO_2 in the Global Coastal Ocean. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1693-1714.	4.7	100
16	EURECA. <i>Earth System Science Data</i> , 2021, 13, 4067-4119.	8.8	95
17	Global high-resolution monthly CO_2 climatology for the coastal ocean derived from neural network interpolation. <i>Biogeosciences</i> , 2017, 14, 4545-4561.	3.4	80
18	Regional Wind Variability Modulates the Southern Ocean Carbon Sink. <i>Scientific Reports</i> , 2019, 9, 7384.	3.4	70

#	ARTICLE	IF	CITATIONS
19	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006788.	4.7	69
20	SeaFlux: harmonization of air-sea CO ₂ fluxes from surface CO ₂ data products using a standardized approach. <i>Earth System Science Data</i> , 2021, 13, 4693-4710.	8.8	62
21	Reviews and syntheses: An empirical spatiotemporal description of the global surface atmosphere carbon fluxes: opportunities and data limitations. <i>Biogeosciences</i> , 2017, 14, 3685-3703.	3.4	59
22	Trends and variability in the ocean carbon sink. <i>Nature Reviews Earth & Environment</i> , 2023, 4, 119-134.	20.5	58
23	Time scales of crystal mixing in magma mushes. <i>Geophysical Research Letters</i> , 2016, 43, 1543-1550.	3.9	55
24	The ECCO-Darwin Data-Assimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multidecadal Surface Ocean CO ₂ and Air-Sea CO ₂ Flux. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001888.	3.7	51
25	Observation-Based Trends of the Southern Ocean Carbon Sink. <i>Geophysical Research Letters</i> , 2017, 44, 12,339.	3.9	46
26	Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean CO ₂ . <i>Biogeosciences</i> , 2018, 15, 3841-3855.	3.4	37
27	Detecting Regional Modes of Variability in Observation-Based Surface Ocean CO ₂ . <i>Geophysical Research Letters</i> , 2019, 46, 2670-2679.	3.9	35
28	Seasonal Carbon Dynamics in the Near-Global Ocean. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006571.	4.7	35
29	Uncertainty in the global oceanic CO ₂ uptake induced by wind forcing: quantification and spatial analysis. <i>Biogeosciences</i> , 2018, 15, 1701-1720.	3.4	33
30	Predicting the variable ocean carbon sink. <i>Science Advances</i> , 2019, 5, eaav6471.	10.8	32
31	Carbon dynamics of the Weddell Gyre, Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 288-306.	4.7	26
32	Magnitude, Trends, and Variability of the Global Ocean Carbon Sink From 1985 to 2018. <i>Global Biogeochemical Cycles</i> , 2023, 37, .	4.7	22
33	Attribution of Space-Time Variability in Global Ocean Dissolved Inorganic Carbon. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.7	21
34	Sparse observations induce large biases in estimates of the global ocean CO ₂ sink: an ocean model subsampling experiment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2023, 381, .	3.5	21
35	Net community production in the North Atlantic Ocean derived from Volunteer Observing Ship data. <i>Global Biogeochemical Cycles</i> , 2015, 29, 80-95.	4.7	16
36	Reconciling Observation and Model Trends in North Atlantic Surface CO ₂ . <i>Global Biogeochemical Cycles</i> , 2019, 33, 1204-1222.	4.7	16

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37	Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for CO ₂ than expected. <i>Biogeosciences</i> , 2022, 19, 2969-2988.	3.4	14
38	Update on the Temperature Corrections of Global Air-Sea CO ₂ Flux Estimates. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.7	12
39	A Synthesis of Global Coastal Ocean Greenhouse Gas Fluxes. <i>Global Biogeochemical Cycles</i> , 2024, 38, .	4.7	10
40	Seasonal Variability of the Surface Ocean Carbon Cycle: A Synthesis. <i>Global Biogeochemical Cycles</i> , 2023, 37, .	4.7	9
41	Sailing through the southern seas of air-sea CO ₂ flux uncertainty. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2023, 381, .	3.5	8
42	Climate-driven variability of the Southern Ocean CO ₂ sink. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2023, 381, .	3.5	8
43	An Assessment of CO ₂ Uptake in the Arctic Ocean From 1985 to 2018. <i>Global Biogeochemical Cycles</i> , 2023, 37, .	4.7	8
44	The impact of seasonality on the annual air-sea carbon flux and its interannual variability. <i>Npj Climate and Atmospheric Science</i> , 2023, 6, .	6.9	5
45	Alternate Histories: Synthetic Large Ensembles of Sea-Air CO ₂ Flux. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.7	3
46	Improved winter data coverage of the Southern Ocean CO ₂ sink from extrapolation of summertime observations. <i>Communications Earth & Environment</i> , 2022, 3, .	6.7	3
47	Ocean systems. , 2022, , 427-452.		1
48	Estimating marine carbon uptake in the northeast Pacific using a neural network approach. <i>Biogeosciences</i> , 2023, 20, 3919-3941.	3.4	1
49	A novel sea surface pCO ₂ -product for the global coastal ocean resolving trends over 1982-2020. <i>Earth System Science Data</i> , 2024, 16, 421-441.	8.8	1
50	A Synthesis of Global Coastal Ocean Greenhouse Gas Fluxes. <i>Global Biogeochemical Cycles</i> , 2024, 38, .	4.7	0
51	A novel sea surface pCO ₂ -product for the global coastal ocean resolving trends over 1982-2020. <i>Earth System Science Data</i> , 2024, 16, 421-441.	8.8	0
52	A Spatially Explicit Uncertainty Analysis of the Air-Sea CO ₂ Flux From Observations. <i>Geophysical Research Letters</i> , 2024, 51, .	3.9	0
53	Accuracy of Ocean CO ₂ Uptake Estimates at a Risk by a Reduction in the Data Collection. <i>Geophysical Research Letters</i> , 2024, 51, .	3.9	0
54	High-Resolution Neural Network Demonstrates Strong CO ₂ Source-Sink Juxtaposition in the Coastal Zone. <i>Journal of Geophysical Research: Oceans</i> , 2024, 129, .	2.6	0