Peter LandschÃ¼tzer

List of Publications by Year
in descending order

54	13,269	87226	115754
papers	citations	37 h-index	61 g-index

116	116	116	17215
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel sea surface pCO₂-product for the global coastal ocean resolving trends over 1982â€“2020. Earth System Science Data, 2024, 16, 421-441.	8.8	1
2	A Synthesis of Global Coastal Ocean Greenhouse Gas Fluxes. Global Biogeochemical Cycles, 2024, 38, .	4.7	10
3	A Synthesis of Global Coastal Ocean Greenhouse Gas Fluxes. Global Biogeochemical Cycles, 2024, 38, .	4.7	0
4	A novel sea surface pCO₂-product for the global coastal ocean resolving trends over 1982â€“2020. Earth System Science Data, 2024, 16, 421-441.	8.8	0
5	A Spatially Explicit Uncertainty Analysis of the Airâ€Sea CO₂ Flux From Observations. Geophysical Research Letters, 2024, 51, .	3.9	0
6	Accuracy of Ocean CO₂ Uptake Estimates at a Risk by a Reduction in the Data Collection. Geophysical Research Letters, 2024, 51, .	3.9	0
7	Highâ€Resolution Neural Network Demonstrates Strong CO₂ Sourceâ€Sink Juxtaposition in the Coastal Zone. Journal of Geophysical Research: Oceans, 2024, 129, .	2.6	0
8	Trends and variability in the ocean carbon sink. Nature Reviews Earth & Environment, 2023, 4, 119-134.	20.5	58
9	Sailing through the southern seas of airâ€“sea CO ₂ flux uncertainty. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2023, 381, .	3.5	8
10	Climate-driven variability of the Southern Ocean CO ₂ sink. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2023, 381, .	3.5	8
11	Sparse observations induce large biases in estimates of the global ocean CO ₂ sink: an ocean model subsampling experiment. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2023, 381, .	3.5	21
12	The impact of seasonality on the annual air-sea carbon flux and its interannual variability. Npj Climate and Atmospheric Science, 2023, 6, .	6.9	5
13	Seasonal Variability of the Surface Ocean Carbon Cycle: A Synthesis. Global Biogeochemical Cycles, 2023, 37, .	4.7	9
14	Magnitude, Trends, and Variability of the Global Ocean Carbon Sink From 1985 to 2018. Global Biogeochemical Cycles, 2023, 37, .	4.7	22
15	Estimating marine carbon uptake in the northeast Pacific using a neural network approach. Biogeosciences, 2023, 20, 3919-3941.	3.4	1
16	An Assessment of CO₂ Uptake in the Arctic Ocean From 1985 to 2018. Global Biogeochemical Cycles, 2023, 37, .	4.7	8
17	Attribution of Spaceâ€Time Variability in Globalâ€Ocean Dissolved Inorganic Carbon. Global Biogeochemical Cycles, 2022, 36, .	4.7	21
18	Ocean systems. , 2022, , 427-452.		1

#	Article	IF	Citations
19	Alternate Histories: Synthetic Large Ensembles of Seaâ€Air CO₂ Flux. Global Biogeochemical Cycles, 2022, 36, .	4.7	3
20	Wintertime process study of the North Brazil Current rings reveals the region as a larger sink for CO₂ than expected. Biogeosciences, 2022, 19, 2969-2988.	3.4	14
21	Update on the Temperature Corrections of Global Airâ€Sea CO₂ Flux Estimates. Global Biogeochemical Cycles, 2022, 36, .	4.7	12
22	Improved winter data coverage of the Southern Ocean CO2 sink from extrapolation of summertime observations. Communications Earth & Environment, 2022, 3, .	6.7	3
23	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. Global Biogeochemical Cycles, 2021, 35, e2020GB006788.	4.7	69
24	EUREC⁴A. Earth System Science Data, 2021, 13, 4067-4119.	8.8	95
25	SeaFlux: harmonization of airâ€“sea CO₂ fluxes from surface <i>p</i>CO₂ data products using a standardized approach. Earth System Science Data, 2021, 13, 4693-4710.	8.8	62
26	The ECCOâ€Darwin Dataâ€Assimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multidecadal Surface Ocean pCO₂ and Airâ€Sea CO₂ Flux. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001888.	3.7	51
27	Revised estimates of ocean-atmosphere CO2 flux are consistent with ocean carbon inventory. Nature Communications, 2020, 11, 4422.	13.0	151
28	Seasonal Carbon Dynamics in the Nearâ€Global Ocean. Global Biogeochemical Cycles, 2020, 34, e2020GB006571.	4.7	35
29	Reconciling Observation and Model Trends in North Atlantic Surface CO₂. Global Biogeochemical Cycles, 2019, 33, 1204-1222.	4.7	16
30	Reassessing Southern Ocean Airâ€Sea CO₂ Flux Estimates With the Addition of Biogeochemical Float Observations. Global Biogeochemical Cycles, 2019, 33, 1370-1388.	4.7	112
31	Regional Wind Variability Modulates the Southern Ocean Carbon Sink. Scientific Reports, 2019, 9, 7384.	3.4	70
32	Predicting the variable ocean carbon sink. Science Advances, 2019, 5, eaav6471.	10.8	32
33	Detecting Regional Modes of Variability in Observationâ€Based Surface Ocean pCO₂. Geophysical Research Letters, 2019, 46, 2670-2679.	3.9	35
34	The Spatiotemporal Dynamics of the Sources and Sinks of CO₂ in the Global Coastal Ocean. Global Biogeochemical Cycles, 2019, 33, 1693-1714.	4.7	100
35	The Variable Southern Ocean Carbon Sink. Annual Review of Marine Science, 2019, 11, 159-186.	12.3	184
36	Strengthening seasonal marine CO2 variations due to increasing atmospheric CO2. Nature Climate Change, 2018, 8, 146-150.	14.2	114

#	Article	IF	Citations
37	Uncertainty in the global oceanic CO₂ uptake induced by wind forcing: quantification and spatial analysis. Biogeosciences, 2018, 15, 1701-1720.	3.4	33
38	Utilizing the Drake Passage Time-series to understand variability and change in subpolar Southern Ocean <i>p</i>CO₂. Biogeosciences, 2018, 15, 3841-3855.	3.4	37
39	Observationâ€Based Trends of the Southern Ocean Carbon Sink. Geophysical Research Letters, 2017, 44, 12,339.	3.9	46
40	Global high-resolution monthly <i>p</i>CO₂ climatology for the coastal ocean derived from neural network interpolation. Biogeosciences, 2017, 14, 4545-4561.	3.4	80
41	Reviews and syntheses: An empirical spatiotemporal description of the global surfaceâ€“atmosphere carbon fluxes: opportunities and data limitations. Biogeosciences, 2017, 14, 3685-3703.	3.4	59
42	Decadal variations and trends of the global ocean carbon sink. Global Biogeochemical Cycles, 2016, 30, 1396-1417.	4.7	263
43	Time scales of crystal mixing in magma mushes. Geophysical Research Letters, 2016, 43, 1543-1550.	3.9	55
44	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.	8.8	436
45	Trends and drivers in global surface ocean pH over the past 3 decades. Biogeosciences, 2015, 12, 1285-1298.	3.4	120
46	Data-based estimates of the ocean carbon sink variability â€“ first results of the Surface Ocean <i>p</i>CO₂ Mapping intercomparison (SOCOM). Biogeosciences, 2015, 12, 7251-7278.	3.4	180
47	Carbon dynamics of the Weddell Gyre, Southern Ocean. Global Biogeochemical Cycles, 2015, 29, 288-306.	4.7	26
48	Net community production in the North Atlantic Ocean derived from Volunteer Observing Ship data. Global Biogeochemical Cycles, 2015, 29, 80-95.	4.7	16
49	Recent variability of the global ocean carbon sink. Global Biogeochemical Cycles, 2014, 28, 927-949.	4.7	338
50	An update to the Surface Ocean CO₂ Atlas (SOCAT version 2). Earth System Science Data, 2014, 6, 69-90.	8.8	163
51	An assessment of the Atlantic and Arctic seaâ€“air CO₂ fluxes, 1990â€“2009. Biogeosciences, 2013, 10, 607-627.	3.4	138
52	A neural network-based estimate of the seasonal to inter-annual variability of the Atlantic Ocean carbon sink. Biogeosciences, 2013, 10, 7793-7815.	3.4	181
53	A uniform, quality controlled Surface Ocean CO₂ Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	8.8	165
54	Surface Ocean CO₂ Atlas (SOCAT) gridded data products. Earth System Science Data, 2013, 5, 145-153.	8.8	104