Peter LandschÃ¼tzer

List of Publications by Year
in descending order

52 papers	11,629 citations	94381 37 h-index	182361 51 g-index
71 all docs	71 docs citations	71 times ranked	13998 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	Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85.	3.7	463
9	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
10	The reinvigoration of the Southern Ocean carbon sink. Science, 2015, 349, 1221-1224.	6.0	331
11	Recent variability of the global ocean carbon sink. Global Biogeochemical Cycles, 2014, 28, 927-949.	1.9	313
12	Decadal variations and trends of the global ocean carbon sink. Global Biogeochemical Cycles, 2016, 30, 1396-1417.	1.9	241
13	State of the Climate in 2018. Bulletin of the American Meteorological Society, 2019, 100, Si-S306.	1.7	168
14	A neural network-based estimate of the seasonal to inter-annual variability of the Atlantic Ocean carbon sink. Biogeosciences, 2013, 10, 7793-7815.	1.3	167
15	The Variable Southern Ocean Carbon Sink. Annual Review of Marine Science, 2019, 11, 159-186.	5.1	165
16	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.	1.3	163
17	A uniform, quality controlled Surface Ocean CO₂ Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	3.7	158
18	An update to the Surface Ocean CO₂ Atlas (SOCAT version 2). Earth System Science Data, 2014, 6, 69-90.	3.7	158

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19	An assessment of the Atlantic and Arctic seaâ€“air CO₂ fluxes, 1990â€“2009. Biogeosciences, 2013, 10, 607-627.	1.3	131
20	Revised estimates of ocean-atmosphere CO2 flux are consistent with ocean carbon inventory. Nature Communications, 2020, 11, 4422.	5.8	129
21	Consistency and Challenges in the Ocean Carbon Sink Estimate for the Global Carbon Budget. Frontiers in Marine Science, 2020, 7, .	1.2	114
22	Trends and drivers in global surface ocean pH over the past 3 decades. Biogeosciences, 2015, 12, 1285-1298.	1.3	112
23	Strengthening seasonal marine CO2 variations due to increasing atmospheric CO2. Nature Climate Change, 2018, 8, 146-150.	8.1	109
24	Surface Ocean CO₂ Atlas (SOCAT) gridded data products. Earth System Science Data, 2013, 5, 145-153.	3.7	101
25	Reassessing Southern Ocean Airâ€Sea CO₂ Flux Estimates With the Addition of Biogeochemical Float Observations. Global Biogeochemical Cycles, 2019, 33, 1370-1388.	1.9	95
26	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
27	EUREC⁴A. Earth System Science Data, 2021, 13, 4067-4119.	3.7	88
28	The Spatiotemporal Dynamics of the Sources and Sinks of CO₂ in the Global Coastal Ocean. Global Biogeochemical Cycles, 2019, 33, 1693-1714.	1.9	86
29	Global high-resolution monthly <i>p</i>CO₂ climatology for the coastal ocean derived from neural network interpolation. Biogeosciences, 2017, 14, 4545-4561.	1.3	71
30	A Global Surface Ocean fCO2 Climatology Based on a Feed-Forward Neural Network. Journal of Atmospheric and Oceanic Technology, 2014, 31, 1838-1849.	0.5	64
31	Regional Wind Variability Modulates the Southern Ocean Carbon Sink. Scientific Reports, 2019, 9, 7384.	1.6	63
32	Quantifying Errors in Observationally Based Estimates of Ocean Carbon Sink Variability. Global Biogeochemical Cycles, 2021, 35, e2020GB006788.	1.9	60
33	Reviews and syntheses: An empirical spatiotemporal description of the global surfaceâ€“atmosphere carbon fluxes: opportunities and data limitations. Biogeosciences, 2017, 14, 3685-3703.	1.3	58
34	A uniform <i>p</i>CO₂ climatology combining open and coastal oceans. Earth System Science Data, 2020, 12, 2537-2553.	3.7	56
35	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.	3.7	51
36	The ECCOâ€Darwin Dataâ€Assimilative Global Ocean Biogeochemistry Model: Estimates of Seasonal to Multidecadal Surface Ocean <i>p</i>CO₂ and Airâ€Sea CO₂ Flux. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001888.	1.3	43

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37	Observationâ€Based Trends of the Southern Ocean Carbon Sink. Geophysical Research Letters, 2017, 44, 12,339.	1.5	41
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.	1.3	32
39	Seasonal Carbon Dynamics in the Nearâ€Global Ocean. Global Biogeochemical Cycles, 2020, 34, e2020GB006571.	1.9	32
40	Predicting the variable ocean carbon sink. Science Advances, 2019, 5, eaav6471.	4.7	31
41	Detecting Regional Modes of Variability in Observationâ€Based Surface Ocean <i>p</i>CO₂. Geophysical Research Letters, 2019, 46, 2670-2679.	1.5	31
42	Uncertainty in the global oceanic CO₂ uptake induced by wind forcing: quantification and spatial analysis. Biogeosciences, 2018, 15, 1701-1720.	1.3	29
43	Carbon dynamics of the Weddell Gyre, Southern Ocean. Global Biogeochemical Cycles, 2015, 29, 288-306.	1.9	24
44	Net community production in the North Atlantic Ocean derived from Volunteer Observing Ship data. Global Biogeochemical Cycles, 2015, 29, 80-95.	1.9	16
45	Reconciling Observation and Model Trends in North Atlantic Surface CO₂. Global Biogeochemical Cycles, 2019, 33, 1204-1222.	1.9	14
46	The northern European shelf as an increasing net sink for CO₂. Biogeosciences, 2021, 18, 1127-1147.	1.3	14
47	Attribution of Spaceâ€Time Variability in Globalâ€Ocean Dissolved Inorganic Carbon. Global Biogeochemical Cycles, 2022, 36, .	1.9	14
48	Global Oceans. Bulletin of the American Meteorological Society, 2020, 101, S129-S184.	1.7	12
49	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.	1.3	12
50	Global Oceans. Bulletin of the American Meteorological Society, 2021, 102, S143-S198.	1.7	11
51	Alternate Histories: Synthetic Large Ensembles of Seaâ€Air CO₂ Flux. Global Biogeochemical Cycles, 2022, 36, .	1.9	3
52	Ocean systems. , 2022, , 427-452.		1