

Siv K Lauvset

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

5,975
citations

218677

26
h-index

214800

47
g-index

80
all docs

80
docs citations

80
times ranked

8123
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Carbon Budget 2019. Earth System Science Data, 2019, 11, 1783-1838.	9.9	1,159
2	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
3	Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396.	9.9	616
4	The oceanic sink for anthropogenic CO ₂ from 1994 to 2007. Science, 2019, 363, 1193-1199.	12.6	505
5	The Global Ocean Data Analysis Project version 2 (GLODAPv2) – an internally consistent data product for the world ocean. Earth System Science Data, 2016, 8, 297-323.	9.9	424
6	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.	9.9	413
7	A new global interior ocean mapped climatology: the 1° GLODAP version 2. Earth System Science Data, 2016, 8, 325-340.	9.9	284
8	Surface ocean pH and buffer capacity: past, present and future. Scientific Reports, 2019, 9, 18624.	3.3	207
9	A uniform, quality controlled Surface Ocean CO ₂ Atlas (SOCAT). Earth System Science Data, 2013, 5, 125-143.	9.9	158
10	An update to the Surface Ocean CO ₂ Atlas (SOCAT version 2). Earth System Science Data, 2014, 6, 69-90.	9.9	158
11	Trends and drivers in global surface ocean pH over the past 3 decades. Biogeosciences, 2015, 12, 1285-1298.	3.3	112
12	GLODAPv2.2019 – an update of GLODAPv2. Earth System Science Data, 2019, 11, 1437-1461.	9.9	102
13	Surface Ocean CO ₂ Atlas (SOCAT) gridded data products. Earth System Science Data, 2013, 5, 145-153.	9.9	101
14	An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2020. Earth System Science Data, 2020, 12, 3653-3678.	9.9	76
15	Mapping of the air-sea CO ₂ flux in the Arctic Ocean and its adjacent seas: Basin-wide distribution and seasonal to interannual variability. Polar Science, 2016, 10, 323-334.	1.2	67
16	Arctic Ocean CO ₂ uptake: an improved multiyear estimate of the air-sea CO ₂ flux incorporating chlorophyll concentrations. Biogeosciences, 2018, 15, 1643-1661.	3.3	56
17	An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2021. Earth System Science Data, 2021, 13, 5565-5589.	9.9	54
18	The Nordic Seas carbon budget: Sources, sinks, and uncertainties. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	46

#	ARTICLE	IF	CITATIONS
19	Calcium carbonate dissolution patterns in the ocean. <i>Nature Geoscience</i> , 2021, 14, 423-428.	12.9	46
20	Nordic Seas Heat Loss, Atlantic Inflow, and Arctic Sea Ice Cover Over the Last Century. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	43
21	Sudden emergence of a shallow aragonite saturation horizon in the Southern Ocean. <i>Nature Climate Change</i> , 2019, 9, 313-317.	18.8	42
22	Processes Driving Global Interior Ocean pH Distribution. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006229.	4.9	35
23	Constraining Projection-Based Estimates of the Future North Atlantic Carbon Uptake. <i>Journal of Climate</i> , 2018, 31, 3959-3978.	3.2	34
24	Seasonal Carbon Dynamics in the Near-Global Ocean. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006571.	4.9	32
25	Long-term trends in surface ocean pH in the North Atlantic. <i>Marine Chemistry</i> , 2014, 162, 71-76.	2.3	30
26	Continued warming, salinification and oxygenation of the Greenland Sea gyre. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 70, 1476434.	1.7	29
27	Current estimates of K_{1}^{*} and K_{2}^{*} appear inconsistent with measured CO ₂ system parameters in cold oceanic regions. <i>Ocean Science</i> , 2020, 16, 847-862.	3.4	28
28	A Surface Ocean CO ₂ Reference Network, SOCONET and Associated Marine Boundary Layer CO ₂ Measurements. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	26
29	A Global Ocean Oxygen Database and Atlas for Assessing and Predicting Deoxygenation and Ocean Health in the Open and Coastal Ocean. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	26
30	Winter weather controls net influx of atmospheric CO ₂ on the north-west European shelf. <i>Scientific Reports</i> , 2019, 9, 20153.	3.3	25
31	Preformed Properties for Marine Organic Matter and Carbonate Mineral Cycling Quantification. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006623.	4.9	25
32	A toolbox for secondary quality control on ocean chemistry and hydrographic data. <i>Limnology and Oceanography: Methods</i> , 2015, 13, 601-608.	2.0	24
33	Climate engineering and the ocean: effects on biogeochemistry and primary production. <i>Biogeosciences</i> , 2017, 14, 5675-5691.	3.3	22
34	Acidification of the Nordic Seas. <i>Biogeosciences</i> , 2022, 19, 979-1012.	3.3	21
35	Annual and seasonal fCO ₂ and air-sea CO ₂ fluxes in the Barents Sea. <i>Journal of Marine Systems</i> , 2013, 113-114, 62-74.	2.1	20
36	Climate Response to Aerosol Geoengineering: A Multimethod Comparison. <i>Journal of Climate</i> , 2018, 31, 6319-6340.	3.2	20

#	ARTICLE	IF	CITATIONS
37	Best Practice Data Standards for Discrete Chemical Oceanographic Observations. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	16
38	Inorganic carbon and water masses in the Irminger Sea since 1991. <i>Biogeosciences</i> , 2018, 15, 51-72.	3.3	14
39	Reconciling Observation and Model Trends in North Atlantic Surface CO ₂ . <i>Global Biogeochemical Cycles</i> , 2019, 33, 1204-1222.	4.9	14
40	Direct measurements of CO ₂ flux in the Greenland Sea. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	13
41	Constraining the Oceanic Uptake and Fluxes of Greenhouse Gases by Building an Ocean Network of Certified Stations: The Ocean Component of the Integrated Carbon Observation System, ICOS-Oceans. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	13
42	Mechanisms and Early Detections of Multidecadal Oxygen Changes in the Interior Subpolar North Atlantic. <i>Geophysical Research Letters</i> , 2018, 45, 4218-4229.	4.0	11
43	A vision for FAIR ocean data products. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	11
44	How Is the Ocean Anthropogenic Carbon Reservoir Filled?. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	9
45	Decadal trends in Ocean Acidification from the Ocean Weather Station M in the Norwegian Sea. <i>Journal of Marine Systems</i> , 2022, 234, 103775.	2.1	7
46	Can Empirical Algorithms Successfully Estimate Aragonite Saturation State in the Subpolar North Atlantic?. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	5
47	Dissolved inorganic nutrients in the western Mediterranean Sea (2004–2017). <i>Earth System Science Data</i> , 2020, 12, 1985-2011.	9.9	3