List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Global Carbon Budget 2020. Earth System Science Data, 2020, 12, 3269-3340.	9.9	1,477
2	Global Carbon Budget 2021. Earth System Science Data, 2022, 14, 1917-2005.	9.9	663
3	The oceanic sink for anthropogenic CO ₂ from 1994 to 2007. Science, 2019, 363, 1193-1199.	12.6	505
4	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
5	Global ocean storage of anthropogenic carbon. Biogeosciences, 2013, 10, 2169-2191.	3.3	348
6	A new global interior ocean mapped climatology: the 1°â€ [−] × â€ [−] 1° GLODAP version 2. Earth System Sc Data, 2016, 8, 325-340.	ience 9.9	284
7	Medusa:  A Sample Preconcentration and GC/MS Detector System for in Situ Measurements of Atmospheric Trace Halocarbons, Hydrocarbons, and Sulfur Compounds. Analytical Chemistry, 2008, 80, 1536-1545.	6.5	260
8	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. Frontiers in Marine Science, 2019, 6, .	2.5	235
9	Estimation of Anthropogenic CO ₂ Inventories in the Ocean. Annual Review of Marine Science, 2010, 2, 175-198.	11.6	191
10	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. Annual Review of Marine Science, 2016, 8, 185-215.	11.6	183
11	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. Ocean Science, 2014, 10, 281-322.	3.4	154
12	The Mediterranean Sea system: a review and an introduction to the special issue. Ocean Science, 2013, 9, 789-803.	3.4	147
13	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). Geoscientific Model Development, 2017, 10, 2169-2199.	3.6	137
14	Global sea-to-air flux climatology for bromoform, dibromomethane and methyl iodide. Atmospheric Chemistry and Physics, 2013, 13, 8915-8934.	4.9	131
15	Tracer applications of noble gas radionuclides in the geosciences. Earth-Science Reviews, 2014, 138, 196-214.	9.1	119
16	Ocean FAIR Data Services. Frontiers in Marine Science, 2019, 6, .	2.5	116
17	The CARINA data synthesis project: introduction and overview. Earth System Science Data, 2010, 2, 105-121.	9.9	116
18	On the role of circulation and mixing in the ventilation of oxygen minimum zones with a focus on the eastern tropical North Atlantic. Biogeosciences, 2015, 12, 489-512.	3.3	109

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19	Ventilation of the Arctic Ocean: Mean ages and inventories of anthropogenic CO ₂ and CFCâ€11. Journal of Geophysical Research, 2009, 114, .	3.3	102
20	GLODAPv2.2019 – an update of GLODAPv2. Earth System Science Data, 2019, 11, 1437-1461.	9.9	102
21	An estimate of anthropogenic CO2 inventory from decadal changes in oceanic carbon content. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3037-3042.	7.1	92
22	Quality control procedures and methods of the CARINA database. Earth System Science Data, 2010, 2, 35-49.	9.9	89
23	The CO ₂ system in the Mediterranean Sea: a basin wide perspective. Ocean Science, 2014, 10, 69-92.	3.4	87
24	Greenland–Scotland overflow studied by hydro-chemical multivariate analysis. Deep-Sea Research Part I: Oceanographic Research Papers, 2003, 50, 73-102.	1.4	82
25	High anthropogenic carbon content in the eastern Mediterranean. Journal of Geophysical Research, 2010, 115, .	3.3	82
26	An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2020. Earth System Science Data, 2020, 12, 3653-3678.	9.9	76
27	Inventory changes in anthropogenic carbon from 1997–2003 in the Atlantic Ocean between 20°S and 65°N. Global Biogeochemical Cycles, 2009, 23, .	4.9	69
28	Arctic ocean shelf–basin interaction: An active continental shelf CO2 pump and its impact on the degree of calcium carbonate solubility. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 869-879.	1.4	67
29	Roles of marginal seas in absorbing and storing fossil fuel CO2. Energy and Environmental Science, 2011, 4, 1133.	30.8	65
30	Use of SF ₆ to estimate anthropogenic CO ₂ in the upper ocean. Journal of Geophysical Research, 2008, 113, .	3.3	63
31	Mixing and convection in the Greenland Sea from a tracer-release experiment. Nature, 1999, 401, 902-904.	27.8	61
32	The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. Frontiers in Marine Science, 2019, 6, .	2.5	60
33	Formation of Denmark Strait overflow water and its hydro-chemical composition. Journal of Marine Systems, 2005, 57, 264-288.	2.1	59
34	Changes in ventilation of the Mediterranean Sea during the past 25 year. Ocean Science, 2014, 10, 1-16.	3.4	57
35	Deoxygenation in the oxygen minimum zone of the eastern tropical North Atlantic. Geophysical Research Letters, 2009, 36, .	4.0	56
36	An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2021. Earth System Science Data, 2021, 13, 5565-5589.	9.9	54

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37	GO-SHIP Repeat Hydrography Nutrient Manual: The Precise and Accurate Determination of Dissolved Inorganic Nutrients in Seawater, Using Continuous Flow Analysis Methods. Frontiers in Marine Science, 2020, 7, .	2.5	52
38	Ventilation of the Mediterranean Sea constrained by multiple transient tracer measurements. Ocean Science, 2014, 10, 439-457.	3.4	51
39	ls coccolithophore distribution in the Mediterranean Sea related to seawater carbonate chemistry?. Ocean Science, 2015, 11, 13-32.	3.4	49
40	Iron Biogeochemistry in the High Latitude North Atlantic Ocean. Scientific Reports, 2018, 8, 1283.	3.3	47
41	Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. Frontiers in Marine Science, 2019, 6, .	2.5	47
42	Water masses in the Atlantic Ocean: characteristics and distributions. Ocean Science, 2021, 17, 463-486.	3.4	40
43	How Well Do We Understand the Landâ€Oceanâ€Atmosphere Carbon Cycle?. Reviews of Geophysics, 2022, 60, .	23.0	38
44	A first study of SF6 as a transient tracer in the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 2683-2699.	1.4	37
45	Diapycnal oxygen supply to the tropical North Atlantic oxygen minimum zone. Biogeosciences, 2013, 10, 5079-5093.	3.3	35
46	Repeat hydrography in the Mediterranean Sea, data from the <i>Meteor</i> cruise 84/3 in 2011. Earth System Science Data, 2013, 5, 289-294.	9.9	34
47	Shelf–Basin interaction along the East Siberian Sea. Ocean Science, 2017, 13, 349-363.	3.4	34
48	Apparent removal of the transient tracer carbon tetrachloride from anoxic seawater. Geophysical Research Letters, 1994, 21, 2511-2514.	4.0	33
49	Temporal nutrient dynamics in the Mediterranean Sea in response to anthropogenic inputs. Geophysical Research Letters, 2016, 43, 5243-5251.	4.0	33
50	The East Greenland Current studied with CFCs and released sulphur hexafluoride. Journal of Marine Systems, 2005, 55, 77-95.	2.1	31
51	A global monthly climatology of total alkalinity: a neural network approach. Earth System Science Data, 2019, 11, 1109-1127.	9.9	31
52	Oxygen utilization and downward carbon flux in an oxygen-depleted eddy in the eastern tropical North Atlantic. Biogeosciences, 2016, 13, 5633-5647.	3.3	29
53	39Ar dating with small samples provides new key constraints on ocean ventilation. Nature Communications, 2018, 9, 5046.	12.8	29
54	Diapycnal diffusivity at the upper boundary of the tropical North Atlantic oxygen minimum zone. Journal of Geophysical Research, 2012, 117, .	3.3	28

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55	Estimating changes in ocean ventilation from early 1990s CFCâ€12 and late 2000s SF ₆ measurements. Geophysical Research Letters, 2013, 40, 927-932.	4.0	28
56	Transient tracer distributions in the Fram Strait in 2012 and inferred anthropogenic carbon content and transport. Ocean Science, 2016, 12, 319-333.	3.4	28
57	Perspectives of transient tracer applications and limiting cases. Ocean Science, 2015, 11, 699-718.	3.4	28
58	Anthropogenic Signatures of Lead in the Northeast Atlantic. Geophysical Research Letters, 2018, 45, 2734-2743.	4.0	26
59	A Global Ocean Oxygen Database and Atlas for Assessing and Predicting Deoxygenation and Ocean Health in the Open and Coastal Ocean. Frontiers in Marine Science, 2021, 8, .	2.5	26
60	Consistency of TTO-NAS inorganic carbon data with modern measurements. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	25
61	Lateral diffusivity from tracer release experiments in the tropical North Atlantic thermocline. Journal of Geophysical Research: Oceans, 2013, 118, 2719-2733.	2.6	24
62	A toolbox for secondary quality control on ocean chemistry and hydrographic data. Limnology and Oceanography: Methods, 2015, 13, 601-608.	2.0	24
63	Hydrographic situation during cruise M84/3 and P414 (spring 2011) in the Mediterranean Sea. Ocean Science, 2014, 10, 669-682.	3.4	24
64	An evaluation of tracer fields and anthropogenic carbon in the equatorial and the tropical North Atlantic. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 67, 85-97.	1.4	23
65	Recent Changes in Deep Ventilation of the Mediterranean Sea; Evidence From Long-Term Transient Tracer Observations. Frontiers in Marine Science, 2020, 7, .	2.5	22
66	CARINA alkalinity data in the Atlantic Ocean. Earth System Science Data, 2009, 1, 45-61.	9.9	22
67	A global monthly climatology of oceanic total dissolved inorganic carbon: a neural network approach. Earth System Science Data, 2020, 12, 1725-1743.	9.9	22
68	Spreading of overflow water from the Greenland to the Labrador Sea. Geophysical Research Letters, 2005, 32, .	4.0	20
69	Atlantic Ocean CARINA data: overview and salinity adjustments. Earth System Science Data, 2010, 2, 17-34.	9.9	20
70	An internally consistent dataset of <i>l´</i> ¹³ C-DIC in the North Atlantic Ocean – NAC13v1. Earth System Science Data, 2016, 8, 559-570.	9.9	19
71	Vertical distribution of perfluoroalkyl substances in water columns around the Japan sea and the Mediterranean Sea. Chemosphere, 2019, 231, 487-494.	8.2	18
72	Untangling biogeochemical processes from the impact of ocean circulation: First insight on the Mediterranean dissolved barium dynamics. Global Biogeochemical Cycles, 2017, 31, 1256-1270.	4.9	17

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73	A near-synoptic survey of ocean microplastic concentration along an around-the-world sailing race. PLoS ONE, 2020, 15, e0243203.	2.5	17
74	CARINA data synthesis project: pH data scale unification and cruise adjustments. Earth System Science Data, 2010, 2, 133-155.	9.9	16
75	Best Practice Data Standards for Discrete Chemical Oceanographic Observations. Frontiers in Marine Science, 2022, 8, .	2.5	16
76	Overview of the Nordic Seas CARINA data and salinity measurements. Earth System Science Data, 2009, 1, 25-34.	9.9	15
77	A high resolution and quasi-zonal transect of dissolved Ba in the Mediterranean Sea. Marine Chemistry, 2016, 178, 1-7.	2.3	14
78	Tracer Evidence of the Origin and Variability of Denmark Strait Overflow Water. , 2008, , 475-503.		14
79	Nordic Seas and Arctic Ocean CFC data in CARINA. Earth System Science Data, 2010, 2, 79-97.	9.9	14
80	Mediterranean Sea Ship-based Hydrographic Investigations Program (Med-SHIP). Oceanography, 2015, 28, 12-15.	1.0	13
81	Temporal changes in ventilation and the carbonate system in the Atlantic sector of the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2017, 138, 26-38.	1.4	13
82	Trace Element Biogeochemistry in the High‣atitude North Atlantic Ocean: Seasonal Variations and Volcanic Inputs. Global Biogeochemical Cycles, 2021, 35, e2020GB006674.	4.9	13
83	CARINA TCO ₂ data in the Atlantic Ocean. Earth System Science Data, 2010, 2, 177-187.	9.9	12
84	Changes in column inventories of carbon and oxygen in the Atlantic Ocean. Biogeosciences, 2012, 9, 4819-4833.	3.3	12
85	lsotopic evidence for biogenic molecular hydrogen production in the Atlantic Ocean. Biogeosciences, 2016, 13, 323-340.	3.3	12
86	Atmospheric histories, growth rates and solubilities in seawater and other natural waters of the potential transient tracers HCFC-22, HCFC-141b, HCFC-142b, HFC-134a, HFC-125, HFC-23, PFC-14 and PFC-116. Ocean Science, 2019, 15, 33-60.	3.4	12
87	The South Atlantic Meridional Overturning Circulation and Mesoscale Eddies in the First GOâ€5HIP Section at 34.5°S. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016962.	2.6	12
88	CARINA: nutrient data in the Atlantic Ocean. Earth System Science Data, 2009, 1, 7-24.	9.9	12
89	Atlantic CFC data in CARINA. Earth System Science Data, 2010, 2, 1-15.	9.9	12
90	The Marine Carbon Cycle and Ocean Carbon Inventories. International Geophysics, 2013, 103, 787-815.	0.6	11

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91	A vision for FAIR ocean data products. Communications Earth & Environment, 2021, 2, .	6.8	11
92	Trends in anthropogenic carbon in the Arctic Ocean. Progress in Oceanography, 2019, 178, 102177.	3.2	10
93	Evaluation of Dataâ€Based Estimates of Anthropogenic Carbon in the Arctic Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016124.	2.6	10
94	Upwelling velocity and ventilation in the Mauritanian upwelling system estimated by CFC-12 and SF6 observations. Journal of Marine Systems, 2015, 151, 57-70.	2.1	9
95	High-resolution regional modelling of natural and anthropogenic radiocarbon in the Mediterranean Sea. Biogeosciences, 2017, 14, 1197-1213.	3.3	6
96	A 30Â‥ear Time Series of Transient Tracerâ€Based Estimates of Anthropogenic Carbon in the Central Labrador Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017092.	2.6	6
97	Diapycnal diffusivity in the core and oxycline of the tropical North Atlantic oxygen minimum zone. Journal of Marine Systems, 2016, 160, 54-63.	2.1	5
98	Observations of the Intermediate Water Exchange Between the South China Sea and the Pacific Ocean Deduced From Transient Tracer Measurements. Journal of Geophysical Research: Oceans, 2018, 123, 7495-7510.	2.6	5
99	The flow field of the upper hypoxic eastern tropical North Atlantic oxygen minimum zone. Ocean Science, 2016, 12, 153-167.	3.4	4
100	Ventilation and anthropogenic CO 2 in the Sulu Sea. Journal of Marine Systems, 2017, 170, 1-9.	2.1	4
101	Physical and biogeochemical parameters of the Mediterranean Sea during a cruise with RV <i>Maria S. Merian</i> in March 2018. Earth System Science Data, 2020, 12, 2747-2763.	9.9	4
102	Dissolved neodymium isotopes in the Mediterranean Sea. Geochimica Et Cosmochimica Acta, 2022, 322, 143-169.	3.9	4
103	Optical Properties and Biochemical Indices of Marine Particles in the Open Mediterranean Sea: The R/V Maria S. Merian Cruise, March 2018. Frontiers in Earth Science, 2021, 9,	1.8	3
104	Medusa–Aqua system: simultaneous measurement and evaluation of novel potential halogenated transient tracers HCFCs, HFCs, and PFCs in the ocean. Ocean Science, 2021, 17, 509-525.	3.4	2