

Toste Tanhua

List of Publications by Year in descending order

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Version: 2024-02-01

104
papers

8,506
citations

71102

41
h-index

51608

86
g-index

155
all docs

155
docs citations

155
times ranked

8543
citing authors

#	ARTICLE	IF	CITATIONS
1	Best Practice Data Standards for Discrete Chemical Oceanographic Observations. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	16
2	Dissolved neodymium isotopes in the Mediterranean Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 322, 143-169.	3.9	4
3	How Well Do We Understand the Landâ€Oceanâ€Atmosphere Carbon Cycle?. <i>Reviews of Geophysics</i> , 2022, 60, .	23.0	38
4	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005.	9.9	663
5	Trace Element Biogeochemistry in the Highâ€Latitude North Atlantic Ocean: Seasonal Variations and Volcanic Inputs. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006674.	4.9	13
6	The South Atlantic Meridional Overturning Circulation and Mesoscale Eddies in the First GOâ€SHIP Section at 34.5â€S. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016962.	2.6	12
7	Water masses in the Atlantic Ocean: characteristics and distributions. <i>Ocean Science</i> , 2021, 17, 463-486.	3.4	40
8	Medusaâ€Aqua system: simultaneous measurement and evaluation of novel potential halogenated transient tracers HCFCs, HFCs, and PFCs in the ocean. <i>Ocean Science</i> , 2021, 17, 509-525.	3.4	2
9	A 30â€Year Time Series of Transient Tracerâ€Based Estimates of Anthropogenic Carbon in the Central Labrador Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017092.	2.6	6
10	A vision for FAIR ocean data products. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	11
11	Optical Properties and Biochemical Indices of Marine Particles in the Open Mediterranean Sea: The R/V Maria S. Merian Cruise, March 2018. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	3
12	An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2021. <i>Earth System Science Data</i> , 2021, 13, 5565-5589.	9.9	54
13	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
14	GO-SHIP Repeat Hydrography Nutrient Manual: The Precise and Accurate Determination of Dissolved Inorganic Nutrients in Seawater, Using Continuous Flow Analysis Methods. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	52
15	Recent Changes in Deep Ventilation of the Mediterranean Sea; Evidence From Long-Term Transient Tracer Observations. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	22
16	Evaluation of Dataâ€Based Estimates of Anthropogenic Carbon in the Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016124.	2.6	10
17	A near-synoptic survey of ocean microplastic concentration along an around-the-world sailing race. <i>PLoS ONE</i> , 2020, 15, e0243203.	2.5	17
18	A global monthly climatology of oceanic total dissolved inorganic carbon: a neural network approach. <i>Earth System Science Data</i> , 2020, 12, 1725-1743.	9.9	22

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19	Physical and biogeochemical parameters of the Mediterranean Sea during a cruise with RV <i>Maria S. Merian</i> in March 2018. <i>Earth System Science Data</i> , 2020, 12, 2747-2763.	9.9	4
20	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	9.9	1,477
21	An updated version of the global interior ocean biogeochemical data product, GLODAPv2.2020. <i>Earth System Science Data</i> , 2020, 12, 3653-3678.	9.9	76
22	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	235
23	The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	60
24	Challenges for Sustained Observing and Forecasting Systems in the Mediterranean Sea. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	47
25	Ocean FAIR Data Services. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	116
26	Trends in anthropogenic carbon in the Arctic Ocean. <i>Progress in Oceanography</i> , 2019, 178, 102177.	3.2	10
27	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. <i>Ocean Science</i> , 2019, 15, 33-60.	3.4	12
28	Vertical distribution of perfluoroalkyl substances in water columns around the Japan sea and the Mediterranean Sea. <i>Chemosphere</i> , 2019, 231, 487-494.	8.2	18
29	The oceanic sink for anthropogenic CO ₂ from 1994 to 2007. <i>Science</i> , 2019, 363, 1193-1199.	12.6	505
30	A global monthly climatology of total alkalinity: a neural network approach. <i>Earth System Science Data</i> , 2019, 11, 1109-1127.	9.9	31
31	GLODAPv2.2019 – an update of GLODAPv2. <i>Earth System Science Data</i> , 2019, 11, 1437-1461.	9.9	102
32	Anthropogenic Signatures of Lead in the Northeast Atlantic. <i>Geophysical Research Letters</i> , 2018, 45, 2734-2743.	4.0	26
33	Iron Biogeochemistry in the High Latitude North Atlantic Ocean. <i>Scientific Reports</i> , 2018, 8, 1283.	3.3	47
34	³⁹ Ar dating with small samples provides new key constraints on ocean ventilation. <i>Nature Communications</i> , 2018, 9, 5046.	12.8	29
35	Observations of the Intermediate Water Exchange Between the South China Sea and the Pacific Ocean Deduced From Transient Tracer Measurements. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7495-7510.	2.6	5
36	Temporal changes in ventilation and the carbonate system in the Atlantic sector of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2017, 138, 26-38.	1.4	13

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37	Ventilation and anthropogenic CO ₂ in the Sulu Sea. <i>Journal of Marine Systems</i> , 2017, 170, 1-9.	2.1	4
38	Untangling biogeochemical processes from the impact of ocean circulation: First insight on the Mediterranean dissolved barium dynamics. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1256-1270.	4.9	17
39	High-resolution regional modelling of natural and anthropogenic radiocarbon in the Mediterranean Sea. <i>Biogeosciences</i> , 2017, 14, 1197-1213.	3.3	6
40	Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP). <i>Geoscientific Model Development</i> , 2017, 10, 2169-2199.	3.6	137
41	Shelf-Basin interaction along the East Siberian Sea. <i>Ocean Science</i> , 2017, 13, 349-363.	3.4	34
42	Transient tracer distributions in the Fram Strait in 2012 and inferred anthropogenic carbon content and transport. <i>Ocean Science</i> , 2016, 12, 319-333.	3.4	28
43	Isotopic evidence for biogenic molecular hydrogen production in the Atlantic Ocean. <i>Biogeosciences</i> , 2016, 13, 323-340.	3.3	12
44	Oxygen utilization and downward carbon flux in an oxygen-depleted eddy in the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2016, 13, 5633-5647.	3.3	29
45	The flow field of the upper hypoxic eastern tropical North Atlantic oxygen minimum zone. <i>Ocean Science</i> , 2016, 12, 153-167.	3.4	4
46	Diapycnal diffusivity in the core and oxycline of the tropical North Atlantic oxygen minimum zone. <i>Journal of Marine Systems</i> , 2016, 160, 54-63.	2.1	5
47	Temporal nutrient dynamics in the Mediterranean Sea in response to anthropogenic inputs. <i>Geophysical Research Letters</i> , 2016, 43, 5243-5251.	4.0	33
48	A high resolution and quasi-zonal transect of dissolved Ba in the Mediterranean Sea. <i>Marine Chemistry</i> , 2016, 178, 1-7.	2.3	14
49	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. <i>Annual Review of Marine Science</i> , 2016, 8, 185-215.	11.6	183
50	The Global Ocean Data Analysis Project version 2 (GLODAPv2) – an internally consistent data product for the world ocean. <i>Earth System Science Data</i> , 2016, 8, 297-323.	9.9	424
51	A new global interior ocean mapped climatology: the 1°-1° GLODAP version 2. <i>Earth System Science Data</i> , 2016, 8, 325-340.	9.9	284
52	An internally consistent dataset of $\delta^{13}\text{C-DIC}$ in the North Atlantic Ocean – NAC13v1. <i>Earth System Science Data</i> , 2016, 8, 559-570.	9.9	19
53	Mediterranean Sea Ship-based Hydrographic Investigations Program (Med-SHIP). <i>Oceanography</i> , 2015, 28, 12-15.	1.0	13
54	On the role of circulation and mixing in the ventilation of oxygen minimum zones with a focus on the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2015, 12, 489-512.	3.3	109

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55	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
56	Upwelling velocity and ventilation in the Mauritanian upwelling system estimated by CFC-12 and SF ₆ observations. <i>Journal of Marine Systems</i> , 2015, 151, 57-70.	2.1	9
57	Is coccolithophore distribution in the Mediterranean Sea related to seawater carbonate chemistry?. <i>Ocean Science</i> , 2015, 11, 13-32.	3.4	49
58	Perspectives of transient tracer applications and limiting cases. <i>Ocean Science</i> , 2015, 11, 699-718.	3.4	28
59	The CO ₂ system in the Mediterranean Sea: a basin wide perspective. <i>Ocean Science</i> , 2014, 10, 69-92.	3.4	87
60	Changes in ventilation of the Mediterranean Sea during the past 25 year. <i>Ocean Science</i> , 2014, 10, 1-16.	3.4	57
61	Ventilation of the Mediterranean Sea constrained by multiple transient tracer measurements. <i>Ocean Science</i> , 2014, 10, 439-457.	3.4	51
62	Physical forcing and physical/biochemical variability of the Mediterranean Sea: a review of unresolved issues and directions for future research. <i>Ocean Science</i> , 2014, 10, 281-322.	3.4	154
63	Tracer applications of noble gas radionuclides in the geosciences. <i>Earth-Science Reviews</i> , 2014, 138, 196-214.	9.1	119
64	Hydrographic situation during cruise M84/3 and P414 (spring 2011) in the Mediterranean Sea. <i>Ocean Science</i> , 2014, 10, 669-682.	3.4	24
65	Lateral diffusivity from tracer release experiments in the tropical North Atlantic thermocline. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2719-2733.	2.6	24
66	Estimating changes in ocean ventilation from early 1990s CFC-12 and late 2000s SF ₆ measurements. <i>Geophysical Research Letters</i> , 2013, 40, 927-932.	4.0	28
67	Repeat hydrography in the Mediterranean Sea, data from the Meteor cruise 84/3 in 2011. <i>Earth System Science Data</i> , 2013, 5, 289-294.	9.9	34
68	Global sea-to-air flux climatology for bromoform, dibromomethane and methyl iodide. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8915-8934.	4.9	131
69	The Marine Carbon Cycle and Ocean Carbon Inventories. <i>International Geophysics</i> , 2013, 103, 787-815.	0.6	11
70	The Mediterranean Sea system: a review and an introduction to the special issue. <i>Ocean Science</i> , 2013, 9, 789-803.	3.4	147
71	Global ocean storage of anthropogenic carbon. <i>Biogeosciences</i> , 2013, 10, 2169-2191.	3.3	348
72	Diapycnal oxygen supply to the tropical North Atlantic oxygen minimum zone. <i>Biogeosciences</i> , 2013, 10, 5079-5093.	3.3	35

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73	Diapycnal diffusivity at the upper boundary of the tropical North Atlantic oxygen minimum zone. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
74	An evaluation of tracer fields and anthropogenic carbon in the equatorial and the tropical North Atlantic. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 67, 85-97.	1.4	23
75	Changes in column inventories of carbon and oxygen in the Atlantic Ocean. <i>Biogeosciences</i> , 2012, 9, 4819-4833.	3.3	12
76	Roles of marginal seas in absorbing and storing fossil fuel CO ₂ . <i>Energy and Environmental Science</i> , 2011, 4, 1133.	30.8	65
77	CARINA TCO<sub>2</sub> data in the Atlantic Ocean. <i>Earth System Science Data</i> , 2010, 2, 177-187.	9.9	12
78	Estimation of Anthropogenic CO ₂ Inventories in the Ocean. <i>Annual Review of Marine Science</i> , 2010, 2, 175-198.	11.6	191
79	High anthropogenic carbon content in the eastern Mediterranean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	82
80	Arctic ocean shelfâ€basin interaction: An active continental shelf CO ₂ pump and its impact on the degree of calcium carbonate solubility. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2010, 57, 869-879.	1.4	67
81	Atlantic CFC data in CARINA. <i>Earth System Science Data</i> , 2010, 2, 1-15.	9.9	12
82	The CARINA data synthesis project: introduction and overview. <i>Earth System Science Data</i> , 2010, 2, 105-121.	9.9	116
83	CARINA data synthesis project: pH data scale unification and cruise adjustments. <i>Earth System Science Data</i> , 2010, 2, 133-155.	9.9	16
84	Atlantic Ocean CARINA data: overview and salinity adjustments. <i>Earth System Science Data</i> , 2010, 2, 17-34.	9.9	20
85	Quality control procedures and methods of the CARINA database. <i>Earth System Science Data</i> , 2010, 2, 35-49.	9.9	89
86	Nordic Seas and Arctic Ocean CFC data in CARINA. <i>Earth System Science Data</i> , 2010, 2, 79-97.	9.9	14
87	Inventory changes in anthropogenic carbon from 1997â€2003 in the Atlantic Ocean between 20Â°S and 65Â°N. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	69
88	Deoxygenation in the oxygen minimum zone of the eastern tropical North Atlantic. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	56
89	Ventilation of the Arctic Ocean: Mean ages and inventories of anthropogenic CO ₂ and CFCâ€11. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	102
90	Overview of the Nordic Seas CARINA data and salinity measurements. <i>Earth System Science Data</i> , 2009, 1, 25-34.	9.9	15

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91	CARINA alkalinity data in the Atlantic Ocean. Earth System Science Data, 2009, 1, 45-61.	9.9	22
92	CARINA: nutrient data in the Atlantic Ocean. Earth System Science Data, 2009, 1, 7-24.	9.9	12
93	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
94	Use of SF ₆ to estimate anthropogenic CO ₂ in the upper ocean. Journal of Geophysical Research, 2008, 113, .	3.3	63
95	Tracer Evidence of the Origin and Variability of Denmark Strait Overflow Water. , 2008, , 475-503.		14
96	An estimate of anthropogenic CO ₂ 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
97	The East Greenland Current studied with CFCs and released sulphur hexafluoride. Journal of Marine Systems, 2005, 55, 77-95.	2.1	31
98	Formation of Denmark Strait overflow water and its hydro-chemical composition. Journal of Marine Systems, 2005, 57, 264-288.	2.1	59
99	Spreading of overflow water from the Greenland to the Labrador Sea. Geophysical Research Letters, 2005, 32, .	4.0	20
100	Consistency of TTO-NAS inorganic carbon data with modern measurements. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	25
101	A first study of SF ₆ as a transient tracer in the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2004, 51, 2683-2699.	1.4	37
102	Greenlandâ€“Scotland overflow studied by hydro-chemical multivariate analysis. Deep-Sea Research Part I: Oceanographic Research Papers, 2003, 50, 73-102.	1.4	82
103	Mixing and convection in the Greenland Sea from a tracer-release experiment. Nature, 1999, 401, 902-904.	27.8	61
104	Apparent removal of the transient tracer carbon tetrachloride from anoxic seawater. Geophysical Research Letters, 1994, 21, 2511-2514.	4.0	33