

Tim DeVries

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,185
citations

201674

27
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

3683
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the Carbon Export and Sequestration Pathways of the Ocean's Biological Carbon Pump. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	63
2	Atmospheric CO ₂ and Sea Surface Temperature Variability Cannot Explain Recent Decadal Variability of the Ocean CO ₂ Sink. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	19
3	Decline in the Nutrient Inventories of the Upper Subtropical Northwest Pacific Ocean. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
4	Data-based estimates of interannual sea-air CO ₂ flux variations 1957–2020 and their relation to environmental drivers. <i>Biogeosciences</i> , 2022, 19, 2627-2652.	3.3	21
5	Preformed Properties for Marine Organic Matter and Carbonate Mineral Cycling Quantification. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006623.	4.9	25
6	Reviews and syntheses: The biogeochemical cycle of silicon in the modern ocean. <i>Biogeosciences</i> , 2021, 18, 1269-1289.	3.3	124
7	CYCLOCIM: A 4-D variational assimilation system for the climatological mean seasonal cycle of the ocean circulation. <i>Ocean Modelling</i> , 2021, 159, 101762.	2.4	3
8	On the effects of the ocean on atmospheric CFC-11 lifetimes and emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2021528118.	7.1	5
9	Stable Carbon Isotopes Suggest Large Terrestrial Carbon Inputs to the Global Ocean. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006684.	4.9	18
10	Global Contrasts Between Oceanic Cycling of Cadmium and Phosphate. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006952.	4.9	14
11	Diffusion controls the ventilation of a Pacific Shadow Zone above abyssal overturning. <i>Nature Communications</i> , 2021, 12, 4348.	12.8	29
12	20th century cooling of the deep ocean contributed to delayed acceleration of Earth's energy imbalance. <i>Nature Communications</i> , 2021, 12, 4604.	12.8	27
13	Assessing the sequestration time scales of some ocean-based carbon dioxide reduction strategies. <i>Environmental Research Letters</i> , 2021, 16, 104003.	5.2	61
14	Estimating global biomass and biogeochemical cycling of marine fish with and without fishing. <i>Science Advances</i> , 2021, 7, eabd7554.	10.3	54
15	AWESOME OCIM: A simple, flexible, and powerful tool for modeling elemental cycling in the oceans. <i>Chemical Geology</i> , 2020, 533, 119403.	3.3	15
16	Diagnosing Mechanisms of Ocean Carbon Export in a Satellite-Based Food Web Model. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	30
17	Constraining the Global Ocean Cu Cycle With a Data-Assimilated Diagnostic Model. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006741.	4.9	7
18	Reversible scavenging traps hydrothermal iron in the deep ocean. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116297.	4.4	21

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19	Correcting Biases in Historical Bathythermograph Data Using Artificial Neural Networks. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1781-1800.	1.3	3
20	Global trends in marine nitrate N isotopes from observations and a neural network-based climatology. <i>Biogeosciences</i> , 2019, 16, 2617-2633.	3.3	22
21	Ventilation of the Deep Ocean Carbon Reservoir During the Last Deglaciation: Results From the Southeast Pacific. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 2080-2097.	2.9	4
22	The interplay between regeneration and scavenging fluxes drives ocean iron cycling. <i>Nature Communications</i> , 2019, 10, 4960.	12.8	41
23	The Ocean's Global ^{39}Ar Distribution Estimated With an Ocean Circulation Inverse Model. <i>Geophysical Research Letters</i> , 2019, 46, 7491-7499.	4.0	4
24	Decadal trends in the ocean carbon sink. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11646-11651.	7.1	94
25	Radiocarbon and Helium Isotope Constraints on Deep Ocean Ventilation and Mantle ^{3}He Sources. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 3036-3057.	2.6	54
26	Diatom Physiology Controls Silicic Acid Leakage in Response to Iron Fertilization. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1631-1653.	4.9	0
27	New directions for ocean nutrients. <i>Nature Geoscience</i> , 2018, 11, 15-16.	12.9	4
28	Biogeochemical cycling of Fe and Fe stable isotopes in the Eastern Tropical South Pacific. <i>Marine Chemistry</i> , 2018, 201, 66-76.	2.3	42
29	The Internal Cycling of Zinc in the Ocean. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1833-1849.	4.9	31
30	Biological uptake and reversible scavenging of zinc in the global ocean. <i>Science</i> , 2018, 361, 72-76.	12.6	112
31	How Data Set Characteristics Influence Ocean Carbon Export Models. <i>Global Biogeochemical Cycles</i> , 2018, 32, 1312-1328.	4.9	33
32	Objective estimates of mantle ^3He in the ocean and implications for constraining the deep ocean circulation. <i>Earth and Planetary Science Letters</i> , 2017, 458, 305-314.	4.4	23
33	The export and fate of organic matter in the ocean: New constraints from combining satellite and oceanographic tracer observations. <i>Global Biogeochemical Cycles</i> , 2017, 31, 535-555.	4.9	165
34	Recent increase in oceanic carbon uptake driven by weaker upper-ocean overturning. <i>Nature</i> , 2017, 542, 215-218.	27.8	242
35	Controls on the Cadmium-Phosphate Relationship in the Tropical South Pacific. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1516-1527.	4.9	16
36	Efficient dissolved organic carbon production and export in the oligotrophic ocean. <i>Nature Communications</i> , 2017, 8, 2036.	12.8	106

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37	Constraints on the global marine iron cycle from a simple inverse model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 28-51.	3.0	14
38	Deep ocean nutrients imply large latitudinal variation in particle transfer efficiency. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8606-8611.	7.1	118
39	A mechanistic particle flux model applied to the oceanic phosphorus cycle. <i>Biogeosciences</i> , 2014, 11, 5381-5398.	3.3	36
40	Large-scale variations in the stoichiometry of marine organic matter respiration. <i>Nature Geoscience</i> , 2014, 7, 890-894.	12.9	94
41	The oceanic anthropogenic CO ₂ sink: Storage, air-sea fluxes, and transports over the industrial era. <i>Global Biogeochemical Cycles</i> , 2014, 28, 631-647.	4.9	207
42	The Southern Ocean silicon trap: Data-constrained estimates of regenerated silicic acid, trapping efficiencies, and global transport paths. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 313-331.	2.6	56
43	Global estimate of submarine groundwater discharge based on an observationally constrained radium isotope model. <i>Geophysical Research Letters</i> , 2014, 41, 8438-8444.	4.0	236
44	Carbon isotope records reveal precise timing of enhanced Southern Ocean upwelling during the last deglaciation. <i>Nature Communications</i> , 2013, 4, 2758.	12.8	112
45	Recent Changes in the Ventilation of the Southern Oceans. <i>Science</i> , 2013, 339, 568-570.	12.6	129
46	Southern Ocean nutrient trapping and the efficiency of the biological pump. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2547-2564.	2.6	73
47	Marine denitrification rates determined from a global 3-D inverse model. <i>Biogeosciences</i> , 2013, 10, 2481-2496.	3.3	121
48	Global rates of water-column denitrification derived from nitrogen gas measurements. <i>Nature Geoscience</i> , 2012, 5, 547-550.	12.9	132
49	The sequestration efficiency of the biological pump. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	122
50	Dynamically and Observationally Constrained Estimates of Water-Mass Distributions and Ages in the Global Ocean. <i>Journal of Physical Oceanography</i> , 2011, 41, 2381-2401.	1.7	168
51	An improved method for estimating water-mass ventilation age from radiocarbon data. <i>Earth and Planetary Science Letters</i> , 2010, 295, 367-378.	4.4	27