Philippe D Tortell

List of Publications by Year
in descending order

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99	7,260	100601 38	68831 81
papers	citations	h-index	g-index

102	102	102	8805
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved prediction of dimethyl sulfide (DMS) distributions in the northeast subarctic Pacific using machine-learning algorithms. Biogeosciences, 2022, 19, 1705-1721.	1.3	6
2	Interannual Variability in Methane and Nitrous Oxide Concentrations and Seaâ€Air Fluxes Across the North American Arctic Ocean (2015â€“2019). Global Biogeochemical Cycles, 2022, 36, .	1.9	8
3	Characterization of marine microbial communities around an Arctic seabed hydrocarbon seep at Scott Inlet, Baffin Bay. Science of the Total Environment, 2021, 762, 143961.	3.9	12
4	Potential roles of dimethysulfoxide in regional sulfur cycling and phytoplankton physiological ecology in the <scp>NE</scp> Subarctic Pacific. Limnology and Oceanography, 2021, 66, 76-94.	1.6	7
5	Covariability of Fraser River sockeye salmon productivity and phytoplankton biomass in the Gulf of Alaska. Fisheries Oceanography, 2021, 30, 666.	0.9	1
6	Î”O 2 / N 2 â€² as a tracer of mixed layer net community production: Theoretical considerations and proofâ€ofâ€concept. Limnology and Oceanography: Methods, 2021, 19, 497-509.	1.0	4
7	First estimation of the diffusive methane flux and concentrations from Lake Winnipeg, a large, shallow and eutrophic lake. Journal of Great Lakes Research, 2021, 47, 741-750.	0.8	4
8	Single-Turnover Variable Chlorophyll Fluorescence as a Tool for Assessing Phytoplankton Photosynthesis and Primary Productivity: Opportunities, Caveats and Recommendations. Frontiers in Marine Science, 2021, 8, .	1.2	27
9	Anthropogenic and Climatic Contributions to Observed Carbon System Trends in the Northeast Pacific. Global Biogeochemical Cycles, 2021, 35, e2020GB006829.	1.9	13
10	Î”O2/N2â€² as a New Tracer of Marine Net Community Production: Application and Evaluation in the Subarctic Northeast Pacific and Canadian Arctic Ocean. Frontiers in Marine Science, 2021, 8, .	1.2	3
11	WTO must ban harmful fisheries subsidies. Science, 2021, 374, 544-544.	6.0	45
12	Irradiance and nutrient-dependent effects on photosynthetic electron transport in Arctic phytoplankton: A comparison of two chlorophyll fluorescence-based approaches to derive primary photochemistry. PLoS ONE, 2021, 16, e0256410.	1.1	4
13	Application of purge and trapâ€atmospheric pressure chemical ionizationâ€tandem mass spectrometry for the determination of dimethylâ€‰sulfide in seawater. Limnology and Oceanography: Methods, 2020, 18, 547-559.	1.0	4
14	River Inflow Dominates Methane Emissions in an Arctic Coastal System. Geophysical Research Letters, 2020, 47, e2020GL087669.	1.5	18
15	Earth 2020: Science, society, and sustainability in the Anthropocene. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 8683-8691.	3.3	28
16	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. Biogeosciences, 2020, 17, 5809-5828.	1.3	16
17	The Pressure of In Situ Gases Instrument (PIGI) for Autonomous Shipboard Measurement of Dissolved O2 and N2 in Surface Ocean Waters. Oceanography, 2020, 33, .	0.5	6
18	Decoupling of Î”O₂âˆ•Ar and particulate organic carbon dynamics in nearshore surface ocean waters. Biogeosciences, 2020, 17, 3277-3298.	1.3	3

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19	Time-series CH4 measurements from Saanich Inlet, BC, a seasonally anoxic fjord. Marine Chemistry, 2019, 215, 103664.	0.9	10
20	Diurnal regulation of photosynthetic light absorption, electron transport and carbon fixation in two contrasting oceanic environments. Biogeosciences, 2019, 16, 1381-1399.	1.3	25
21	Patterns and drivers of dimethylsulfide concentration in the northeast subarctic Pacific across multiple spatial and temporal scales. Biogeosciences, 2019, 16, 1729-1754.	1.3	11
22	A Harmonized Nitrous Oxide (N2O) Ocean Observation Network for the 21st Century. Frontiers in Marine Science, 2019, 6, .	1.2	32
23	Global satellite-observed daily vertical migrations of ocean animals. Nature, 2019, 576, 257-261.	13.7	111
24	Refined Estimates of Net Community Production in the Subarctic Northeast Pacific Derived From Î”O₂/Ar Measurements With N₂Oâ€Based Corrections for Vertical Mixing. Global Biogeochemical Cycles, 2018, 32, 326-350.	1.9	19
25	Carbon: Chlorophyll Ratios and Net Primary Productivity of Subarctic Pacific Surface Waters Derived From Autonomous Shipboard Sensors. Global Biogeochemical Cycles, 2018, 32, 267-288.	1.9	32
26	Resistance of Arctic phytoplankton to ocean acidification and enhanced irradiance. Polar Biology, 2018, 41, 399-413.	0.5	23
27	Optically-derived estimates of phytoplankton size class and taxonomic group biomass in the Eastern Subarctic Pacific Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2018, 136, 107-118.	0.6	10
28	Compensation of ocean acidification effects in Arctic phytoplankton assemblages. Nature Climate Change, 2018, 8, 529-533.	8.1	60
29	A multiâ€year timeâ€series of N₂O dynamics in a seasonally anoxic fjord: Saanich Inlet, British Columbia. Limnology and Oceanography, 2018, 63, 524-539.	1.6	16
30	The distribution of methylated sulfur compounds, DMS and DMSP, in Canadian subarctic and Arctic marine waters during summer 2015. Biogeosciences, 2018, 15, 2449-2465.	1.3	25
31	An intercomparison of oceanic methane and nitrous oxide measurements. Biogeosciences, 2018, 15, 5891-5907.	1.3	42
32	Observations of Zooplankton Diel Vertical Migration From Highâ€Resolution Surface Ocean Optical Measurements. Geophysical Research Letters, 2018, 45, 13,396.	1.5	5
33	Methane and nitrous oxide distributions in coastal and open ocean waters of the Northeast Subarctic Pacific during 2015â€“2016. Marine Chemistry, 2018, 200, 45-56.	0.9	8
34	Methane and nitrous oxide distributions across the North American Arctic Ocean during summer, 2015. Journal of Geophysical Research: Oceans, 2017, 122, 390-412.	1.0	38
35	Concentrations and cycling of DMS, DMSP, and DMSO in coastal and offshore waters of the Subarctic Pacific during summer, 2010â€2011. Journal of Geophysical Research: Oceans, 2017, 122, 3269-3286.	1.0	25
36	Primary productivity and the coupling of photosynthetic electron transport and carbon fixation in the Arctic Ocean. Limnology and Oceanography, 2017, 62, 898-921.	1.6	43

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37	Processes driving seasonal variability in DMS, DMSP, and DMSO concentrations and turnover in coastal Antarctic waters. Limnology and Oceanography, 2017, 62, 104-124.	1.6	40
38	A compendium of geochemical information from the Saanich Inlet water column. Scientific Data, 2017, 4, 170159.	2.4	29
39	Diurnal variation in the coupling of photosynthetic electron transport and carbon fixation in iron-limited phytoplankton in the NE subarctic Pacific. Biogeosciences, 2016, 13, 1019-1035.	1.3	61
40	Impact of ocean acidification on phytoplankton assemblage, growth, and DMS production following Fe-dust additions in the NE Pacific high-nutrient, low-chlorophyll waters. Biogeosciences, 2016, 13, 1677-1692.	1.3	13
41	Methanotrophic Community Dynamics in a Seasonally Anoxic Fjord: Saanich Inlet, British Columbia. Frontiers in Marine Science, 2016, 3, .	1.2	17
42	Sources of dissolved inorganic carbon to the Canada Basin halocline: A multitracer study. Journal of Geophysical Research: Oceans, 2016, 121, 2918-2936.	1.0	13
43	Towards a revised climatology of summertime dimethylsulfide concentrations and seaâ€“air fluxes in the Southern Ocean. Environmental Chemistry, 2016, 13, 364.	0.7	25
44	Factors controlling methane and nitrous-oxide variability in the southern British Columbia coastal upwelling system. Marine Chemistry, 2016, 179, 56-67.	0.9	19
45	Biological and physical controls on N₂, O₂, and CO₂ distributions in contrasting Southern Ocean surface waters. Global Biogeochemical Cycles, 2015, 29, 994-1013.	1.9	22
46	The imbalance of new and export production in the western Antarctic Peninsula, a potentially â€œleakyâ€• ecosystem. Global Biogeochemical Cycles, 2015, 29, 1400-1420.	1.9	30
47	Inorganic carbon system dynamics in landfast Arctic sea ice during the earlyâ€•melt period. Journal of Geophysical Research: Oceans, 2015, 120, 3542-3566.	1.0	20
48	An automated, high throughâ€•put method for accurate and precise measurements of dissolved nitrousâ€•oxide and methane concentrations in natural waters. Limnology and Oceanography: Methods, 2015, 13, 345-355.	1.0	22
49	Measurement of <scp>DMS</scp>, <scp>DMSO</scp>, and <scp>DMSP</scp> in natural waters by automated sequential chemical analysis. Limnology and Oceanography: Methods, 2015, 13, 451-462.	1.0	17
50	Interacting Effects of Light and Iron Availability on the Coupling of Photosynthetic Electron Transport and CO2-Assimilation in Marine Phytoplankton. PLoS ONE, 2015, 10, e0133235.	1.1	76
51	Low temperature reduces the energetic requirement for the <scp>CO</scp>₂ concentrating mechanism in diatoms. New Phytologist, 2015, 205, 192-201.	3.5	54
52	Slow carboxylation of <scp>R</scp>ubisco constrains the rate of carbon fixation during <scp>A</scp>ntarctic phytoplankton blooms. New Phytologist, 2015, 205, 172-181.	3.5	93
53	Gross and net production during the spring bloom along the <scp>W</scp>estern <scp>A</scp>ntarctic <scp>P</scp>eninsula. New Phytologist, 2015, 205, 182-191.	3.5	45
54	Antarctic phytoplankton down-regulate their carbon-concentrating mechanisms under high CO2 with no change in growth rates. Marine Ecology - Progress Series, 2015, 532, 13-28.	0.9	50

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55	Metabolic balance of coastal Antarctic waters revealed by autonomous pCO₂ and Î”O₂/Ar measurements. Geophysical Research Letters, 2014, 41, 6803-6810.	1.5	58
56	Over-determination of the carbonate system in natural sea-ice brine and assessment of carbonic acid dissociation constants under low temperature, high salinity conditions. Marine Chemistry, 2014, 165, 36-45.	0.9	17
57	Strong shift from HCO3 â^' to CO2 uptake in Emiliania huxleyi with acidification: new approach unravels acclimation versus short-term pH effects. Photosynthesis Research, 2014, 121, 265-275.	1.6	39
58	Determination of particulate organic carbon sources to the surface mixed layer of the Canada Basin, Arctic Ocean. Journal of Geophysical Research: Oceans, 2014, 119, 1084-1102.	1.0	18
59	Iron Limitation Modulates Ocean Acidification Effects on Southern Ocean Phytoplankton Communities. PLoS ONE, 2013, 8, e79890.	1.1	88
60	Inorganic C utilization and C isotope fractionation by pelagic and sea ice algal assemblages along the Antarctic continental shelf. Marine Ecology - Progress Series, 2013, 483, 47-66.	0.9	18
61	Evaluating DMS measurements and model results in the Northeast subarctic Pacific from 1996â€“2010. Biogeochemistry, 2012, 110, 269-285.	1.7	15
62	Influence of regional climate forcing on surface water pCO2, Î”O2/Ar and dimethylsulfide (DMS) along the southern British Columbia coast. Continental Shelf Research, 2012, 47, 119-132.	0.9	25
63	Spatial distribution of pCO2, Î”O2/Ar and dimethylsulfide (DMS) in polynya waters and the sea ice zone of the Amundsen Sea, Antarctica. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 71-76, 77-93.	0.6	52
64	Vertical structure, seasonal drawdown, and net community production in the Ross Sea, Antarctica. Journal of Geophysical Research, 2011, 116, .	3.3	34
65	High concentrations and turnover rates of DMS, DMSP and DMSO in Antarctic sea ice. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	58
66	Spatial variability and temporal dynamics of surface water pCO2, Î”O2/Ar and dimethylsulfide in the Ross Sea, Antarctica. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 241-259.	0.6	60
67	Fine-scale spatial and temporal variability of surface water dimethylsufide (DMS) concentrations and seaâ€“air fluxes in the NE Subarctic Pacific. Marine Chemistry, 2011, 126, 63-75.	0.9	29
68	INORGANIC CARBON UTILIZATION BY ROSS SEA PHYTOPLANKTON ACROSS NATURAL AND EXPERIMENTAL CO₂ GRADIENTS¹. Journal of Phycology, 2010, 46, 433-443.	1.0	25
69	Microbial community dynamics in a seasonally anoxic fjord: Saanich Inlet, British Columbia. Environmental Microbiology, 2010, 12, 172-191.	1.8	198
70	Spatial and temporal variability of the dimethylsulfide to chlorophyll ratio in the surface ocean: an assessment based on phytoplankton group dominance determined from space. Biogeosciences, 2010, 7, 3215-3237.	1.3	10
71	Unveiling a phytoplankton hotspot at a narrow boundary between coastal and offshore waters. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 16571-16576.	3.3	74
72	N and O isotope effects during nitrate assimilation by unicellular prokaryotic and eukaryotic plankton cultures. Geochimica Et Cosmochimica Acta, 2010, 74, 1030-1040.	1.6	165

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73	From laboratory manipulations to Earth system models: scaling calcification impacts of ocean acidification. Biogeosciences, 2009, 6, 2611-2623.	1.3	122
74	Metagenome of a Versatile Chemolithoautotroph from Expanding Oceanic Dead Zones. Science, 2009, 326, 578-582.	6.0	312
75	Spatial and temporal variability of biogenic gases during the Southern Ocean spring bloom. Geophysical Research Letters, 2009, 36, .	1.5	33
76	High-resolution measurement of Southern Ocean CO2 and O2/Ar by membrane inlet mass spectrometry. Marine Chemistry, 2008, 108, 184-194.	0.9	38
77	Bicarbonate transport and extracellular carbonic anhydrase in marine diatoms. Physiologia Plantarum, 2008, 133, 106-116.	2.6	44
78	A highâ€resolution survey of DMS, CO₂, and O₂/Ar distributions in productive coastal waters. Global Biogeochemical Cycles, 2008, 22, .	1.9	39
79	CO₂ sensitivity of Southern Ocean phytoplankton. Geophysical Research Letters, 2008, 35, .	1.5	240
80	Nitrogen and oxygen isotope fractionation during dissimilatory nitrate reduction by denitrifying bacteria. Limnology and Oceanography, 2008, 53, 2533-2545.	1.6	360
81	Inorganic carbon uptake by Southern Ocean phytoplankton. Limnology and Oceanography, 2008, 53, 1266-1278.	1.6	70
82	Isotope disequilibrium and mass spectrometric studies of inorganic carbon acquisition by phytoplankton. Limnology and Oceanography: Methods, 2007, 5, 328-337.	1.0	48
83	Fifty years of ocean observations in the Pacific Northeast. Eos, 2006, 87, 551.	0.1	3
84	A method for nitrite removal in nitrate N and O isotope analyses. Limnology and Oceanography: Methods, 2006, 4, 205-212.	1.0	70
85	Bicarbonate transport and extracellular carbonic anhydrase activity in Bering Sea phytoplankton assemblages: Results from isotope disequilibrium experiments. Limnology and Oceanography, 2006, 51, 2111-2121.	1.6	50
86	Inorganic carbon uptake and intracellular assimilation by subarctic Pacific phytoplankton assemblages. Limnology and Oceanography, 2006, 51, 2102-2110.	1.6	45
87	Dissolved gas measurements in oceanic waters made by membrane inlet mass spectrometry. Limnology and Oceanography: Methods, 2005, 3, 24-37.	1.0	135
88	Small-scale heterogeneity of dissolved gas concentrations in marine continental shelf waters. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	1.0	27
89	Sources of inorganic carbon for phytoplankton in the eastern Subtropical and Equatorial Pacific Ocean. Limnology and Oceanography, 2002, 47, 1012-1022.	1.6	89
90	Acquisition of inorganic carbon by the marine diatom Thalassiosira weissflogii. Functional Plant Biology, 2002, 29, 301.	1.1	85

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91	CO2 effects on taxonomic composition and nutrient utilization in an Equatorial Pacific phytoplankton assemblage. Marine Ecology - Progress Series, 2002, 236, 37-43.	0.9	270
92	Differential effects of iron additions on organic and inorganic carbon production byphytoplankton. Limnology and Oceanography, 2001, 46, 1199-1202.	1.6	23
93	Evolutionary and ecological perspectives on carbon acquisition in phytoplankton. Limnology and Oceanography, 2000, 45, 744-750.	1.6	186
94	Reduced calcification of marine plankton in response to increased atmospheric CO2. Nature, 2000, 407, 364-367.	13.7	1,276
95	Inorganic carbon acquisition in coastal Pacific phytoplankton communities. Limnology and Oceanography, 2000, 45, 1485-1500.	1.6	158
96	Marine bacteria and biogeochemical cycling of iron in the oceans. FEMS Microbiology Ecology, 1999, 29, 1-11.	1.3	169
97	Active uptake of bicarbonate by diatoms. Nature, 1997, 390, 243-244.	13.7	155
98	The role of heterotrophic bacteria in iron-limited ocean ecosystems. Nature, 1996, 383, 330-332.	13.7	255
99	Impact of vertical mixing on summertime net community production in Canadian Arctic and Subarctic waters: Insights from in situ measurements and numerical simulations. Journal of Geophysical Research: Oceans, 0, , .	1.0	1