

# Gordon T Taylor

## List of Publications by Year in descending order

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107  
papers

4,540  
citations

81900

39  
h-index

114465

63  
g-index

117  
all docs

117  
docs citations

117  
times ranked

4104  
citing authors

#	ARTICLE	IF	CITATIONS
1	One Cell at a Time: Advances in Single-Cell Methods and Instrumentation for Discovery in Aquatic Microbiology. <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	2
2	Diverse nitrogen cycling pathways across a marine oxygen gradient indicate nitrogen loss coupled to chemoautotrophic activity. <i>Environmental Microbiology</i> , 2021, 23, 2747-2764.	3.8	15
3	Assessing diversity, abundance, and mass of microplastics ( $\sim 1\text{--}300\ \mu\text{m}$ ) in aquatic systems. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 369-384.	2.0	4
4	Applying fluorescence in situ hybridization to aquatic systems with cyanobacteria blooms: Autofluorescence suppression and high-throughput image analysis. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 457-475.	2.0	5
5	Using Stable Isotope Probing and Raman Microspectroscopy To Measure Growth Rates of Heterotrophic Bacteria. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0146021.	3.1	7
6	Raman Microspectroscopy Goes Viral: Infection Dynamics in the Cosmopolitan Microalga, <i>Emiliania huxleyi</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 686287.	3.5	5
7	Raman microspectroscopy for microbiology. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	57
8	Eukaryotic Parasites Are Integral to a Productive Microbial Food Web in Oxygen-Depleted Waters. <i>Frontiers in Microbiology</i> , 2021, 12, 764605.	3.5	11
9	Viral elements and their potential influence on microbial processes along the permanently stratified Cariaco Basin redoxcline. <i>ISME Journal</i> , 2020, 14, 3079-3092.	9.8	36
10	Imprint of Trace Dissolved Oxygen on Prokaryoplankton Community Structure in an Oxygen Minimum Zone. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	9
11	Anomalous $\delta^{13}\text{C}$ in Particulate Organic Carbon at the Chemoautotrophy Maximum in the Cariaco Basin. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2020, 125, e2019JG005276.	3.0	4
12	The Scientific Legacy of the CARIACO Ocean Time-Series Program. <i>Annual Review of Marine Science</i> , 2019, 11, 413-437.	11.6	33
13	Windows into Microbial Seascapes: Advances in Nanoscale Imaging and Application to Marine Sciences. <i>Annual Review of Marine Science</i> , 2019, 11, 465-490.	11.6	10
14	Microbial metabolite fluxes in a model marine anoxic ecosystem. <i>Geobiology</i> , 2019, 17, 628-642.	2.4	4
15	Circumventing kinetics in biogeochemical modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11329-11338.	7.1	11
16	Tear Down the Fluorescent Curtain: A New Fluorescence Suppression Method for Raman Microspectroscopic Analyses. <i>Scientific Reports</i> , 2019, 9, 15785.	3.3	21
17	Temporal shifts in dominant sulfur-oxidizing chemoautotrophic populations across the Cariaco Basin's redoxcline. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 156, 80-96.	1.4	14
18	Free-living chemoautotrophic and particle-attached heterotrophic prokaryotes dominate microbial assemblages along a pelagic redox gradient. <i>Environmental Microbiology</i> , 2018, 20, 693-712.	3.8	46

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19	Distribution and variability of the dissolved inorganic carbon system in the Cariaco Basin, Venezuela. <i>Marine Chemistry</i> , 2017, 195, 15-26.	2.3	6
20	Niskin bottle sample collection aliases microbial community composition and biogeochemical interpretation. <i>Limnology and Oceanography</i> , 2017, 62, 606-617.	3.1	18
21	Discovery of a resting stage in the harmful, brown-tide-causing pelagophyte, <i>Aureoumbra lagunensis</i> : a mechanism potentially facilitating recurrent blooms and geographic expansion. <i>Journal of Phycology</i> , 2017, 53, 118-130.	2.3	17
22	Single-Cell Growth Rates in Photoautotrophic Populations Measured by Stable Isotope Probing and Resonance Raman Microspectrometry. <i>Frontiers in Microbiology</i> , 2017, 8, 1449.	3.5	21
23	Aerobic and anaerobic ammonium oxidizers in the Cariaco Basin: distributions of major taxa and nitrogen species across the redoxcline. <i>Aquatic Microbial Ecology</i> , 2017, 79, 31-48.	1.8	14
24	Ligand-induced dependence of charge transfer in nanotube-quantum dot heterostructures. <i>Nanoscale</i> , 2016, 8, 15553-15570.	5.6	20
25	Chemical Strategies for Enhancing Activity and Charge Transfer in Ultrathin Pt Nanowires Immobilized onto Nanotube Supports for the Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 34280-34294.	8.0	16
26	The Diversity of Sulfide Oxidation and Sulfate Reduction Genes Expressed by the Bacterial Communities of the Cariaco Basin, Venezuela. <i>Open Microbiology Journal</i> , 2016, 10, 140-149.	0.7	12
27	Probing Structure-Induced Optical Behavior in a New Class of Self-Activated Luminescent OD/1D CaWO <sub>4</sub> Metal Oxide-CdSe Nanocrystal Composite Heterostructures. <i>Chemistry of Materials</i> , 2015, 27, 778-792.	6.7	12
28	Importance of the bacterial dynamics in model simulations of seasonal hypoxia. <i>Continental Shelf Research</i> , 2015, 105, 1-17.	1.8	5
29	Cycling of suspended particulate phosphorus in the redoxcline of the Cariaco Basin. <i>Marine Chemistry</i> , 2015, 176, 64-74.	2.3	17
30	The dynamics of the bacterial diversity in the redox transition and anoxic zones of the Cariaco Basin assessed by parallel tag sequencing. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv088.	2.7	13
31	Probing the Dependence of Electron Transfer on Size and Coverage in Carbon Nanotube-Quantum Dot Heterostructures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26327-26338.	3.1	22
32	<i>The Biology and Ecology of Tintinnid Ciliates: Models for Marine Plankton</i> . Edited by John R. Dolan, David J. S. Montagnes, Sabine Agatha, D. Wayne Coats, and Diane K. Stoecker. Hoboken (New Jersey): Wiley-Blackwell, 2013. 978-0-470-67151-1. 2013. <i>Quarterly Review of Biology</i> , 2015, 90, 341-342.	0.1	1
33	<i>Biology and Ecology of Long Island Sound</i> . Springer Series on Environmental Management, 2014, , 285-479.	0.3	17
34	Phytoplankton assemblage changes during decadal decreases in nitrogen loadings to the urbanized Long Island Sound estuary, USA. <i>Marine Ecology - Progress Series</i> , 2014, 497, 51-67.	1.9	16
35	Interannual and Subdecadal Variability in the Nutrient Geochemistry of the Cariaco Basin. <i>Oceanography</i> , 2014, 27, 148-159.	1.0	38
36	Spatial and seasonal variability of dissolved organic matter in the Cariaco Basin. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 951-962.	3.0	12

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37	<i>Marine Microbiology: Ecology and Applications</i> . Second Edition. By Colin Munn; Foreword by, Farooq Azam. New York: Garland Science (Taylor & Francis Group). \$85.00 (paper). xvii + 364 p. + 11 pl.; ill.; index. ISBN: 978-0-8153-6517-4. 2011.. Quarterly Review of Biology, 2013, 88, 144-144.	0.1	0
38	Interannual variability in sea surface temperature and fCO <sub>2</sub> changes in the Cariaco Basin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 93, 33-43.	1.4	37
39	The central role of selenium in the biochemistry and ecology of the harmful pelagophyte, <i>Aureococcus anophagefferens</i> . ISME Journal, 2013, 7, 1333-1343.	9.8	39
40	Bacterial community composition in a large marine anoxic basin: a Cariaco Basin time-series survey. FEMS Microbiology Ecology, 2013, 84, 625-639.	2.7	18
41	Phytoplankton species-specific release of dissolved free amino acids and their selective consumption by bacteria. Limnology and Oceanography, 2013, 58, 1123-1135.	3.1	94
42	Ecosystem responses in the southern Caribbean Sea to global climate change. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19315-19320.	7.1	93
43	Investigation of Epizootic Shell Disease in American Lobsters ( <i>Homarus americanus</i> ) from Long Island Sound: I. Characterization of Associated Microbial Communities. Journal of Shellfish Research, 2012, 31, 473-484.	0.9	30
44	Investigation of Epizootic Shell Disease in American Lobsters ( <i>Homarus americanus</i> ) from Long Island Sound: II. Immune Parameters in Lobsters and Relationships to the Disease. Journal of Shellfish Research, 2012, 31, 495-504.	0.9	19
45	The conundrum between chemoautotrophic production and reductant and oxidant supply: A case study from the Cariaco Basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 61, 1-10.	1.4	22
46	Biomarkers, chemistry and microbiology show chemoautotrophy in a multilayer chemocline in the Cariaco Basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 63, 133-156.	1.4	71
47	Microbial community structure and productivity in the oxygen minimum zone of the eastern tropical North Pacific. Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 66, 77-89.	1.4	38
48	Response to comment on "The conundrum between chemoautotrophic production and reductant and oxidant supply: A case study from the Cariaco basin" Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 70, 106-108.	1.4	5
49	Class Cariacotrichea, a novel ciliate taxon from the anoxic Cariaco Basin, Venezuela. International Journal of Systematic and Evolutionary Microbiology, 2012, 62, 1425-1433.	1.7	66
50	Accessing marine protists from the anoxic Cariaco Basin. ISME Journal, 2011, 5, 1237-1241.	9.8	44
51	Protistan microbial observatory in the Cariaco Basin, Caribbean. I. Pyrosequencing vs Sanger insights into species richness. ISME Journal, 2011, 5, 1344-1356.	9.8	211
52	Protistan microbial observatory in the Cariaco Basin, Caribbean. II. Habitat specialization. ISME Journal, 2011, 5, 1357-1373.	9.8	79
53	Light-independent mechanisms of virion inactivation in coastal marine systems. Hydrobiologia, 2011, 665, 51-66.	2.0	4
54	Mid-chain methoxylated fatty acids within the chemocline of the Cariaco Basin: A chemoautotrophic source?. Organic Geochemistry, 2010, 41, 498-512.	1.8	12

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55	Distributions of dissolved vitamin B12 and Co in coastal and open-ocean environments. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 85, 223-230.	2.1	57
56	Hydrolytic ectoenzyme activity associated with suspended and sinking organic particles within the anoxic Cariaco Basin. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2009, 56, 1266-1283.	1.4	29
57	Controls on iron, manganese and intermediate oxidation state sulfur compounds in the Cariaco Basin. <i>Marine Chemistry</i> , 2008, 111, 47-62.	2.3	44
58	Relationship of sulfur speciation to hydrographic conditions and chemoautotrophic production in the Cariaco Basin. <i>Marine Chemistry</i> , 2008, 112, 53-64.	2.3	44
59	Potential cobalt limitation of vitamin B <sub>12</sub> synthesis in the North Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	54
60	Vitamin B12 and cobalt cycling among diatoms and bacteria in Antarctic sea ice microbial communities. <i>Limnology and Oceanography</i> , 2008, 53, 1862-1877.	3.1	32
61	Spatiotemporal dynamics of bacterial populations in the anoxic Cariaco Basin. <i>Limnology and Oceanography</i> , 2008, 53, 37-51.	3.1	43
62	Effect of B-vitamins (B1, B12) and inorganic nutrients on algal bloom dynamics in a coastal ecosystem. <i>Aquatic Microbial Ecology</i> , 2007, 49, 181-194.	1.8	101
63	Compositional responses of bacterial communities to redox gradients and grazing in the anoxic Cariaco Basin. <i>Aquatic Microbial Ecology</i> , 2007, 47, 57-72.	1.8	41
64	Regulation of phytoplankton dynamics by vitamin B12. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	91
65	B vitamins as regulators of phytoplankton dynamics. <i>Eos</i> , 2006, 87, 593.	0.1	71
66	The influence of sediment resuspension on the degradation of phenanthrene in flow-through microcosms. <i>Marine Environmental Research</i> , 2006, 61, 202-223.	2.5	8
67	A Multiple PCR-primer Approach to Access the Microeukaryotic Diversity in Environmental Samples. <i>Protist</i> , 2006, 157, 31-43.	1.5	186
68	Vertical distributions of thiosulfate and sulfite in the Cariaco Basin. <i>Limnology and Oceanography</i> , 2006, 51, 280-287.	3.1	34
69	Contrasting microplanktonic composition and food web structure in two coastal embayments (Long Tj ETQq1 1 0,784314 rgBT /Over	1.8	88
70	Comparison of Vertical Distributions of Prokaryotic Assemblages in the Anoxic Cariaco Basin and Black Sea by Use of Fluorescence In Situ Hybridization. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2679-2690.	3.1	148
71	TEMPORAL VARIABILITY IN THE NUTRIENT CHEMISTRY OF THE CARIACO BASIN. , 2006, , 139-160.		20
72	MICROBIAL ECOLOGY OF THE CARIACO BASIN'S REDOXCLINE: THE U.S.-VENEZUELA CARIACO TIMES SERIES PROGRAM. <i>NATO Science Series Series IV, Earth and Environmental Sciences</i> , 2006, , 471-499.	0.3	14

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73	Speciation and concentrations of dissolved nitrogen as determinants of brown tide <i>Aureococcus anophagefferens</i> bloom initiation. <i>Marine Ecology - Progress Series</i> , 2006, 312, 67-83.	1.9	44
74	Vertical and temporal variability of redox zonation in the water column of the Cariaco Basin: implications for organic carbon oxidation pathways. <i>Marine Chemistry</i> , 2004, 86, 89-104.	2.3	60
75	Microbial herbivory on the brown tide alga, <i>Aureococcus anophagefferens</i> : results from natural ecosystems, mesocosms and laboratory experiments. <i>Harmful Algae</i> , 2004, 3, 439-457.	4.8	42
76	Novel Eukaryotes from the Permanently Anoxic Cariaco Basin (Caribbean Sea). <i>Applied and Environmental Microbiology</i> , 2003, 69, 5656-5663.	3.1	192
77	Planktonic carbon cycling and transport in surface waters of the highly urbanized Hudson River estuary. <i>Limnology and Oceanography</i> , 2003, 48, 1779-1795.	3.1	30
78	Temporal variations in viral distributions in the anoxic Cariaco Basin. <i>Aquatic Microbial Ecology</i> , 2003, 30, 103-116.	1.8	46
79	Ectohydrolase activity in surface waters of the Hudson River and western Long Island Sound estuaries. <i>Marine Ecology - Progress Series</i> , 2003, 263, 1-15.	1.9	43
80	Acetate cycling in the water column of the Cariaco Basin: Seasonal and vertical variability and implication for carbon cycling. <i>Limnology and Oceanography</i> , 2002, 47, 1119-1128.	3.1	97
81	Annual cycle of primary production in the Cariaco Basin: Response to upwelling and implications for vertical export. <i>Journal of Geophysical Research</i> , 2001, 106, 4527-4542.	3.3	143
82	Chemoautotrophy in the redox transition zone of the Cariaco Basin: A significant midwater source of organic carbon production. <i>Limnology and Oceanography</i> , 2001, 46, 148-163.	3.1	231
83	Nutrient Pulses, Plankton Blooms, and Seasonal Hypoxia in Western Long Island Sound. <i>Estuaries and Coasts</i> , 2001, 24, 228.	1.7	86
84	Phylogenetic Diversity of Bacterial and Archaeal Communities in the Anoxic Zone of the Cariaco Basin. <i>Applied and Environmental Microbiology</i> , 2001, 67, 1663-1674.	3.1	179
85	Sediment record linked to surface processes in the Cariaco Basin. <i>Eos</i> , 2000, 81, 529-535.	0.1	24
86	Simulation of carbon-nitrogen cycling during spring upwelling in the Cariaco Basin. <i>Journal of Geophysical Research</i> , 1999, 104, 7807-7825.	3.3	49
87	Bacterioplankton dynamics and organic carbon partitioning in the lower Hudson River estuary. <i>Marine Ecology - Progress Series</i> , 1999, 182, 17-27.	1.9	23
88	Influence of surface properties on accumulation of conditioning films and marine bacteria on substrata exposed to oligotrophic waters. <i>Biofouling</i> , 1997, 11, 31-57.	2.2	62
89	Enhancement of marine bacterial growth by mineral surfaces. <i>Canadian Journal of Microbiology</i> , 1996, 42, 911-918.	1.7	19
90	Microbial degradation of sorbed and dissolved protein in seawater. <i>Limnology and Oceanography</i> , 1995, 40, 875-885.	3.1	28

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91	Influence of laminar flow velocity and nutrient concentration on attachment of marine bacterioplankton. <i>Biofouling</i> , 1994, 8, 107-120.	2.2	20
92	Protein adsorption from seawater onto solid substrata: II. Behavior of bound protein and its influence on interfacial properties. <i>Marine Chemistry</i> , 1994, 47, 21-39.	2.3	10
93	Protein adsorption from seawater onto solid substrata, I. Influences of substratum surface properties and protein concentration. <i>Marine Chemistry</i> , 1994, 45, 15-30.	2.3	24
94	Spectroscopic Examination of Protein Adsorption from Seawater onto Titanium. <i>Applied Spectroscopy</i> , 1993, 47, 1140-1151.	2.2	9
95	Determination of Low Concentrations of the Azo-Dye Complex of Nitrite in Fresh Water and Seawater Using Surface-Enhanced Resonance Raman Spectroscopy (SERRS). <i>Applied Spectroscopy</i> , 1992, 46, 819-826.	2.2	30
96	Microbial biomass and productivity in the western Bransfield Strait, Antarctica during the 1986-87 austral summer. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, 1029-1055.	1.5	93
97	Vertical fluxes of biogenic particles and associated biota in the eastern North Pacific: Implications for biogeochemical cycling and productivity. <i>Global Biogeochemical Cycles</i> , 1991, 5, 289-303.	4.9	16
98	Optimization of a Flow Injection Sampling System for Quantitative Analysis of Dilute Aqueous Solutions Using Combined Resonance and Surface-Enhanced Raman Spectroscopy (SERRS). <i>Applied Spectroscopy</i> , 1990, 44, 635-640.	2.2	50
99	Variability in the vertical flux of microorganisms and biogenic material in the epipelagic zone of a North Pacific central gyre station. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1989, 36, 1287-1308.	1.5	39
100	A microbiological study of Guaymas Basin high temperature hydrothermal vents. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 777-791.	1.5	41
101	Validity of Eucaryote Inhibitors for Assessing Production and Grazing Mortality of Marine Bacterioplankton. <i>Applied and Environmental Microbiology</i> , 1987, 53, 119-128.	3.1	45
102	Sea ice microbial communities. VI. Growth and primary production in bottom ice under graded snow cover. <i>Marine Ecology - Progress Series</i> , 1987, 35, 153-164.	1.9	134
103	Impact of bacteria and zooflagellates on the composition of sinking particles: an in situ experiment. <i>Marine Ecology - Progress Series</i> , 1986, 29, 141-155.	1.9	41
104	Interactions of bacterivorous grazers and heterotrophic bacteria with dissolved organic matter. <i>Marine Ecology - Progress Series</i> , 1985, 23, 129-141.	1.9	77
105	The use of <sup>14</sup> C-labeled bacteria as a tracer of ingestion and metabolism of bacterial biomass by microbial grazers. <i>Journal of Microbiological Methods</i> , 1984, 3, 101-124.	1.6	19
106	Seasonal variability in the hydrological and chemical structure of the suboxic waters at the cariaco time-series station. <i>Gayana</i> , 0, 70, .	0.1	0
107	The biogeochemistry of the suboxic and anoxic zones in the cariaco basin. <i>Gayana</i> , 0, 70, .	0.1	0