# 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 | Chemoautotrophy in the redox transition zone of the Cariaco Basin: A significant midwater source of organic carbon production. Limnology and Oceanography, 2001, 46, 148-163. | 3.1 | 231 |
| 2 | 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 |
| 3 | Novel Eukaryotes from the Permanently Anoxic Cariaco Basin (Caribbean Sea). Applied and Environmental Microbiology, 2003, 69, 5656-5663. | 3.1 | 192 |
| 4 | A Multiple PCR-primer Approach to Access the Microeukaryotic Diversity in Environmental Samples. Protist, 2006, 157, 31-43. | 1.5 | 186 |
| 5 | Phylogenetic Diversity of Bacterial and Archaeal Communities in the Anoxic Zone of the Cariaco Basin. Applied and Environmental Microbiology, 2001, 67, 1663-1674. | 3.1 | 179 |
| 6 | Comparison of Vertical Distributions of Prokaryotic Assemblages in the Anoxic Cariaco Basin and Black Sea by Use of Fluorescence In Situ Hybridization. Applied and Environmental Microbiology, 2006, 72, 2679-2690. | 3.1 | 148 |
| 7 | Annual cycle of primary production in the Cariaco Basin: Response to upwelling and implications for vertical export. Journal of Geophysical Research, 2001, 106, 4527-4542. | 3.3 | 143 |
| 8 | Sea ice microbial communities. VI. Growth and primary production in bottom ice under graded snow cover. Marine Ecology - Progress Series, 1987, 35, 153-164. | 1.9 | 134 |
| 9 | Effect of B-vitamins (B1, B12) and inorganic nutrients on algal bloom dynamics in a coastal ecosystem. Aquatic Microbial Ecology, 2007, 49, 181-194. | 1.8 | 101 |
| 10 | Acetate cycling in the water column of the Cariaco Basin: Seasonal and vertical variability and implication for carbon cycling. Limnology and Oceanography, 2002, 47, 1119-1128. | 3.1 | 97 |
| 11 | Phytoplankton speciesâ€specific release of dissolved free amino acids and their selective consumption by bacteria. Limnology and Oceanography, 2013, 58, 1123-1135. | 3.1 | 94 |
| 12 | Microbial biomass and productivity in the western Bransfield Strait, Antarctica during the 1986â€“87 austral summer. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 1029-1055. | 1.5 | 93 |
| 13 | 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 |
| 14 | Regulation of phytoplankton dynamics by vitamin B12. Geophysical Research Letters, 2006, 33, . | 4.0 | 91 |
| 15 | Nutrient Pulses, Plankton Blooms, and Seasonal Hypoxia in Western Long Island Sound. Estuaries and Coasts, 2001, 24, 228. | 1.7 | 86 |
| 16 | Protistan microbial observatory in the Cariaco Basin, Caribbean. II. Habitat specialization. ISME Journal, 2011, 5, 1357-1373. | 9.8 | 79 |
| 17 | Interactions of bactivorous grazers and heterotrophic bacteria with dissolved organic matter. Marine Ecology - Progress Series, 1985, 23, 129-141. | 1.9 | 77 |
| 18 | B vitamins as regulators of phytoplankton dynamics. Eos, 2006, 87, 593. | 0.1 | 71 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | Influence of surface properties on accumulation of conditioning films and marine bacteria on substrata exposed to oligotrophic waters. Biofouling, 1997, 11, 31-57. | 2.2 | 62 |
| 22 | Vertical and temporal variability of redox zonation in the water column of the Cariaco Basin: implications for organic carbon oxidation pathways. Marine Chemistry, 2004, 86, 89-104. | 2.3 | 60 |
| 23 | Distributions of dissolved vitamin B12 and Co in coastal and open-ocean environments. Estuarine, Coastal and Shelf Science, 2009, 85, 223-230. | 2.1 | 57 |
| 24 | Raman microspectroscopy for microbiology. Nature Reviews Methods Primers, 2021, 1, . | 21.2 | 57 |
| 25 | Potential cobalt limitation of vitamin B<sub>12</sub> synthesis in the North Atlantic Ocean. Global Biogeochemical Cycles, 2008, 22, . | 4.9 | 54 |
| 26 | Optimization of a Flow Injection Sampling System for Quantitative Analysis of Dilute Aqueous Solutions Using Combined Resonance and Surface-Enhanced Raman Spectroscopy (SERRS). Applied Spectroscopy, 1990, 44, 635-640. | 2.2 | 50 |
| 27 | Simulation of carbon-nitrogen cycling during spring upwelling in the Cariaco Basin. Journal of Geophysical Research, 1999, 104, 7807-7825. | 3.3 | 49 |
| 28 | Freeâ€living chemoautotrophic and particleâ€attached heterotrophic prokaryotes dominate microbial assemblages along a pelagic redox gradient. Environmental Microbiology, 2018, 20, 693-712. | 3.8 | 46 |
| 29 | Temporal variations in viral distributions in the anoxic Cariaco Basin. Aquatic Microbial Ecology, 2003, 30, 103-116. | 1.8 | 46 |
| 30 | Validity of Eucaryote Inhibitors for Assessing Production and Grazing Mortality of Marine Bacterioplankton. Applied and Environmental Microbiology, 1987, 53, 119-128. | 3.1 | 45 |
| 31 | Controls on iron, manganese and intermediate oxidation state sulfur compounds in the Cariaco Basin. Marine Chemistry, 2008, 111, 47-62. | 2.3 | 44 |
| 32 | Relationship of sulfur speciation to hydrographic conditions and chemoautotrophic production in the Cariaco Basin. Marine Chemistry, 2008, 112, 53-64. | 2.3 | 44 |
| 33 | Accessing marine protists from the anoxic Cariaco Basin. ISME Journal, 2011, 5, 1237-1241. | 9.8 | 44 |
| 34 | Speciation and concentrations of dissolved nitrogen as determinants of brown tide Aureococcus anophagefferens bloom initiation. Marine Ecology - Progress Series, 2006, 312, 67-83. | 1.9 | 44 |
| 35 | Spatiotemporal dynamics of bacterial populations in the anoxic Cariaco Basin. Limnology and Oceanography, 2008, 53, 37-51. | 3.1 | 43 |
| 36 | Ectohydrolase activity in surface waters of the Hudson River and western Long Island Sound estuaries. Marine Ecology - Progress Series, 2003, 263, 1-15. | 1.9 | 43 |

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|---|---|---|---|
| 37 | Microbial herbivory on the brown tide alga, Aureococcus anophagefferens: results from natural ecosystems, mesocosms and laboratory experiments. Harmful Algae, 2004, 3, 439-457. | 4.8 | 42 |
| 38 | A microbiological study of Guaymas Basin high temperature hydrothermal vents. Deep-sea Research Part A, Oceanographic Research Papers, 1988, 35, 777-791. | 1.5 | 41 |
| 39 | Compositional responses of bacterial communities to redox gradients and grazing in the anoxic Cariaco Basin. Aquatic Microbial Ecology, 2007, 47, 57-72. | 1.8 | 41 |
| 40 | Impact of bacteria and zooflagellates on the composition of sinking particles: an in situ experiment. Marine Ecology - Progress Series, 1986, 29, 141-155. | 1.9 | 41 |
| 41 | Variability in the vertical flux of microorganisms and biogenic material in the epipelagic zone of a North Pacific central gyre station. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 1287-1308. | 1.5 | 39 |
| 42 | The central role of selenium in the biochemistry and ecology of the harmful pelagophyte, Aureococcus anophagefferens. ISME Journal, 2013, 7, 1333-1343. | 9.8 | 39 |
| 43 | 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 |
| 44 | Interannual and Subdecadal Variability in the Nutrient Geochemistry of the Cariaco Basin. Oceanography, 2014, 27, 148-159. | 1.0 | 38 |
| 45 | Interannual variability in sea surface temperature and fCO2 changes in the Cariaco Basin. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 93, 33-43. | 1.4 | 37 |
| 46 | Viral elements and their potential influence on microbial processes along the permanently stratified Cariaco Basin redoxcline. ISME Journal, 2020, 14, 3079-3092. | 9.8 | 36 |
| 47 | Vertical distributions of thiosulfate and sulfite in the Cariaco Basin. Limnology and Oceanography, 2006, 51, 280-287. | 3.1 | 34 |
| 48 | The Scientific Legacy of the CARIACO Ocean Time-Series Program. Annual Review of Marine Science, 2019, 11, 413-437. | 11.6 | 33 |
| 49 | Vitamin B12 and cobalt cycling among diatoms and bacteria in Antarctic sea ice microbial communities. Limnology and Oceanography, 2008, 53, 1862-1877. | 3.1 | 32 |
| 50 | Determination of Low Concentrations of the Azo-Dye Complex of Nitrite in Fresh Water and Seawater Using Surface-Enhanced Resonance Raman Spectroscopy (SERRS). Applied Spectroscopy, 1992, 46, 819-826. | 2.2 | 30 |
| 51 | Planktonic carbon cycling and transport in surface waters of the highly urbanized Hudson River estuary. Limnology and Oceanography, 2003, 48, 1779-1795. | 3.1 | 30 |
| 52 | Investigation of Epizootic Shell Disease in American Lobsters (Homarus americanus) from Long Island Sound: I. Characterization of Associated Microbial Communities. Journal of Shellfish Research, 2012, 31, 473-484. | 0.9 | 30 |
| 53 | Hydrolytic ectoenzyme activity associated with suspended and sinking organic particles within the anoxic Cariaco Basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 1266-1283. | 1.4 | 29 |
| 54 | Microbial degradation of sorbed and dissolved protein in seawater. Limnology and Oceanography, 1995, 40, 875-885. | 3.1 | 28 |

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| 55 | Protein adsorption from seawater onto solid substrata, I. Influences of substratum surface properties and protein concentration. Marine Chemistry, 1994, 45, 15-30. | 2.3 | 24 |
| 56 | Sediment record linked to surface processes in the Cariaco Basin. Eos, 2000, 81, 529-535. | 0.1 | 24 |
| 57 | Bacterioplankton dynamics and organic carbon partitioning in the lower Hudson River estuary. Marine Ecology - Progress Series, 1999, 182, 17-27. | 1.9 | 23 |
| 58 | 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 |
| 59 | Probing the Dependence of Electron Transfer on Size and Coverage in Carbon Nanotubeâ€“Quantum Dot Heterostructures. Journal of Physical Chemistry C, 2015, 119, 26327-26338. | 3.1 | 22 |
| 60 | Single-Cell Growth Rates in Photoautotrophic Populations Measured by Stable Isotope Probing and Resonance Raman Microspectrometry. Frontiers in Microbiology, 2017, 8, 1449. | 3.5 | 21 |
| 61 | Tear Down the Fluorescent Curtain: A New Fluorescence Suppression Method for Raman Microspectroscopic Analyses. Scientific Reports, 2019, 9, 15785. | 3.3 | 21 |
| 62 | Influence of laminar flow velocity and nutrient concentration on attachment of marine bacterioplankton. Biofouling, 1994, 8, 107-120. | 2.2 | 20 |
| 63 | Ligand-induced dependence of charge transfer in nanotubeâ€“quantum dot heterostructures. Nanoscale, 2016, 8, 15553-15570. | 5.6 | 20 |
| 64 | TEMPORAL VARIABILITY IN THE NUTRIENT CHEMISTRY OF THE CARIACO BASIN. , 2006, , 139-160. | | 20 |
| 65 | The use of 14C-labeled bacteria as a tracer of ingestion and metabolism of bacterial biomass by microbial grazers. Journal of Microbiological Methods, 1984, 3, 101-124. | 1.6 | 19 |
| 66 | Enhancement of marine bacterial growth by mineral surfaces. Canadian Journal of Microbiology, 1996, 42, 911-918. | 1.7 | 19 |
| 67 | Investigation of Epizootic Shell Disease in American Lobsters (Homarus americanus) 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 |
| 68 | Contrasting microplanktonic composition and food web structure in two coastal embayments (Long) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.8 | 18 |
| 69 | 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 |
| 70 | Niskin bottle sample collection aliases microbial community composition and biogeochemical interpretation. Limnology and Oceanography, 2017, 62, 606-617. | 3.1 | 18 |
| 71 | Biology and Ecology of Long Island Sound. Springer Series on Environmental Management, 2014, , 285-479. | 0.3 | 17 |
| 72 | Cycling of suspended particulate phosphorus in the redoxcline of the Cariaco Basin. Marine Chemistry, 2015, 176, 64-74. | 2.3 | 17 |

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|---|---|---|---|
| 73 | Discovery of a resting stage in the harmful, brownâ€tideâ€causing pelagophyte, Aureoumbra lagunensis: a mechanism potentially facilitating recurrent blooms and geographic expansion. Journal of Phycology, 2017, 53, 118-130. | 2.3 | 17 |
| 74 | Vertical fluxes of biogenic particles and associated biota in the eastern North Pacific: Implications for biogeochemical cycling and productivity. Global Biogeochemical Cycles, 1991, 5, 289-303. | 4.9 | 16 |
| 75 | Chemical Strategies for Enhancing Activity and Charge Transfer in Ultrathin Pt Nanowires Immobilized onto Nanotube Supports for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2016, 8, 34280-34294. | 8.0 | 16 |
| 76 | Phytoplankton assemblage changes during decadal decreases in nitrogen loadings to the urbanized Long Island Sound estuary, USA. Marine Ecology - Progress Series, 2014, 497, 51-67. | 1.9 | 16 |
| 77 | Diverse nitrogen cycling pathways across a marine oxygen gradient indicate nitrogen loss coupled to chemoautotrophic activity. Environmental Microbiology, 2021, 23, 2747-2764. | 3.8 | 15 |
| 78 | Temporal shifts in dominant sulfur-oxidizing chemoautotrophic populations across the Cariaco Basin's redoxcline. Deep-Sea Research Part II: Topical Studies in Oceanography, 2018, 156, 80-96. | 1.4 | 14 |
| 79 | MICROBIAL ECOLOGY OF THE CARIACO BASIN'S REDOXCLINE: THE U.S.-VENEZUELA CARIACO TIMES SERIES PROGRAM. NATO Science Series Series IV, Earth and Environmental Sciences, 2006, , 471-499. | 0.3 | 14 |
| 80 | Aerobic and anaerobic ammonium oxidizers in the Cariaco Basin: distributions of major taxa and nitrogen species across the redoxcline. Aquatic Microbial Ecology, 2017, 79, 31-48. | 1.8 | 14 |
| 81 | The dynamics of the bacterial diversity in the redox transition and anoxic zones of the Cariaco Basin assessed by parallel tag sequencing. FEMS Microbiology Ecology, 2015, 91, fiv088. | 2.7 | 13 |
| 82 | Mid-chain methoxylated fatty acids within the chemocline of the Cariaco Basin: A chemoautotrophic source?. Organic Geochemistry, 2010, 41, 498-512. | 1.8 | 12 |
| 83 | Spatial and seasonal variability of dissolved organic matter in the Cariaco Basin. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 951-962. | 3.0 | 12 |
| 84 | Probing Structure-Induced Optical Behavior in a New Class of Self-Activated Luminescent 0D/1D CaWO<sub>4</sub> Metal Oxideâ€“CdSe Nanocrystal Composite Heterostructures. Chemistry of Materials, 2015, 27, 778-792. | 6.7 | 12 |
| 85 | The Diversity of Sulfide Oxidation and Sulfate Reduction Genes Expressed by the Bacterial Communities of the Cariaco Basin, Venezuela. Open Microbiology Journal, 2016, 10, 140-149. | 0.7 | 12 |
| 86 | Circumventing kinetics in biogeochemical modeling. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11329-11338. | 7.1 | 11 |
| 87 | Eukaryotic Parasites Are Integral to a Productive Microbial Food Web in Oxygen-Depleted Waters. Frontiers in Microbiology, 2021, 12, 764605. | 3.5 | 11 |
| 88 | Protein adsorption from seawater onto solid substrata: II. Behavior of bound protein and its influence on interfacial properties. Marine Chemistry, 1994, 47, 21-39. | 2.3 | 10 |
| 89 | Windows into Microbial Seascapes: Advances in Nanoscale Imaging and Application to Marine Sciences. Annual Review of Marine Science, 2019, 11, 465-490. | 11.6 | 10 |
| 90 | Spectroscopic Examination of Protein Adsorption from Seawater onto Titanium. Applied Spectroscopy, 1993, 47, 1140-1151. | 2.2 | 9 |

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| 91 | Imprint of Trace Dissolved Oxygen on Prokaryoplankton Community Structure in an Oxygen Minimum Zone. Frontiers in Marine Science, 2020, 7, . | 2.5 | 9 |
| 92 | The influence of sediment resuspension on the degradation of phenanthrene in flow-through microcosms. Marine Environmental Research, 2006, 61, 202-223. | 2.5 | 8 |
| 93 | Using Stable Isotope Probing and Raman Microspectroscopy To Measure Growth Rates of Heterotrophic Bacteria. Applied and Environmental Microbiology, 2021, 87, e0146021. | 3.1 | 7 |
| 94 | Distribution and variability of the dissolved inorganic carbon system in the Cariaco Basin, Venezuela. Marine Chemistry, 2017, 195, 15-26. | 2.3 | 6 |
| 95 | Response to comment on â€œThe conundrum between chemoautotrophic production and reductant and oxidant supply: A case study from the Cariaco basinâ€• Deep-Sea Research Part I: Oceanographic Research Papers, 2012, 70, 106-108. | 1.4 | 5 |
| 96 | Importance of the bacterial dynamics in model simulations of seasonal hypoxia. Continental Shelf Research, 2015, 105, 1-17. | 1.8 | 5 |
| 97 | Applying fluorescence in situ hybridization to aquatic systems with cyanobacteria blooms: Autofluorescence suppression and highâ€throughput image analysis. Limnology and Oceanography: Methods, 2021, 19, 457-475. | 2.0 | 5 |
| 98 | Raman Microspectroscopy Goes Viral: Infection Dynamics in the Cosmopolitan Microalga, Emiliania huxleyi. Frontiers in Microbiology, 2021, 12, 686287. | 3.5 | 5 |
| 99 | Light-independent mechanisms of virion inactivation in coastal marine systems. Hydrobiologia, 2011, 665, 51-66. | 2.0 | 4 |
| 100 | Microbial metabolite fluxes in a model marine anoxic ecosystem. Geobiology, 2019, 17, 628-642. | 2.4 | 4 |
| 101 | Anomalous Î´<sup>13</sup>C in Particulate Organic Carbon at the Chemoautotrophy Maximum in the Cariaco Basin. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005276. | 3.0 | 4 |
| 102 | Assessing diversity, abundance, and mass of microplastics (~â€‰1â€“300â€‰Î¼m) in aquatic systems. Limnology and Oceanography: Methods, 2021, 19, 369-384. | 2.0 | 4 |
| 103 | One Cell at a Time: Advances in Single-Cell Methods and Instrumentation for Discovery in Aquatic Microbiology. Frontiers in Microbiology, 2022, 13, . | 3.5 | 2 |
| 104 | The Biology and Ecology of Tintinnid Ciliates: Models for Marine Plankton. Edited by John R. Dolan, David J. S. Montagnes, Sabine Agatha, D. Wayne Coats, and Diane K. Stoecker. Hoboken (New) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 978-0-470-67151-1. 2013.. Quarterly Review of Biology, 2015, 90, 341-342. | 0.1 | 1 |
| 105 | Marine Microbiology: Ecology and Applications. 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 |
| 106 | Seasonal variability in the hydrological and chemical structure of the suboxic waters at the cariaco time-series station. Gayana, 0, 70, . | 0.1 | 0 |
| 107 | The biogeochemistry of the suboxic and anoxic zones in the cariaco basin. Gayana, 0, 70, . | 0.1 | 0 |