

Christopher L Osburn

List of Publications by Citations

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89
papers

3,469
citations

39
h-index

57
g-index

98
ext. papers

4,223
ext. citations

5.2
avg, IF

5.5
L-index

#	Paper	IF	Citations
89	Fluorescence tracking of dissolved and particulate organic matter quality in a river-dominated estuary. <i>Environmental Science & Technology</i> , 2012 , 46, 8628-36	10.3	217
88	Dissolved organic matter composition and photoreactivity in prairie lakes of the U.S. Great Plains. <i>Limnology and Oceanography</i> , 2011 , 56, 2371-2390	4.8	138
87	Chemical and optical changes in freshwater dissolved organic matter exposed to solar radiation. <i>Biogeochemistry</i> , 2001 , 54, 251-278	3.8	119
86	Linking the chemical and optical properties of dissolved organic matter in the Baltic-North Sea transition zone to differentiate three allochthonous inputs. <i>Marine Chemistry</i> , 2011 , 126, 281-294	3.7	118
85	Photoreactivity of chromophoric dissolved organic matter transported by the Mackenzie River to the Beaufort Sea. <i>Marine Chemistry</i> , 2009 , 115, 10-20	3.7	117
84	Microbial activities and dissolved organic matter dynamics in oil-contaminated surface seawater from the Deepwater Horizon oil spill site. <i>PLoS ONE</i> , 2012 , 7, e34816	3.7	107
83	Changes in CDOM fluorescence from allochthonous and autochthonous sources during tidal mixing and bacterial degradation in two coastal estuaries. <i>Marine Chemistry</i> , 2004 , 89, 189-210	3.7	97
82	Tidal marshes as a source of optically and chemically distinctive colored dissolved organic matter in the Chesapeake Bay. <i>Limnology and Oceanography</i> , 2008 , 53, 148-159	4.8	92
81	Comparison of the optical properties of dissolved organic matter in two river-influenced coastal regions of the Canadian Arctic. <i>Estuarine, Coastal and Shelf Science</i> , 2007 , 72, 261-272	2.9	88
80	Characterization of oil components from the Deepwater Horizon oil spill in the Gulf of Mexico using fluorescence EEM and PARAFAC techniques. <i>Marine Chemistry</i> , 2013 , 148, 10-21	3.7	87
79	Enhanced transfer of terrestrially derived carbon to the atmosphere in a flooding event. <i>Geophysical Research Letters</i> , 2013 , 40, 116-122	4.9	82
78	Photochemical production of hydrogen peroxide and methylhydroperoxide in coastal waters. <i>Marine Chemistry</i> , 2005 , 97, 14-33	3.7	80
77	The use of wet chemical oxidation with high-amplification isotope ratio mass spectrometry (WCO-IRMS) to measure stable isotope values of dissolved organic carbon in seawater. <i>Limnology and Oceanography: Methods</i> , 2007 , 5, 296-308	2.6	74
76	Bacterial production and microbial food web structure in a large arctic river and the coastal Arctic Ocean. <i>Journal of Marine Systems</i> , 2008 , 74, 756-773	2.7	73
75	Optical Proxies for Terrestrial Dissolved Organic Matter in Estuaries and Coastal Waters. <i>Frontiers in Marine Science</i> , 2016 , 2,	4.5	73
74	Runoff-mediated seasonal oscillation in the dynamics of dissolved organic matter in different branches of a large bifurcated estuary—the Changjiang Estuary. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 776-793	3.7	72
73	Distribution, origin and cycling of carbon in the Tana River (Kenya): a dry season basin-scale survey from headwaters to the delta. <i>Biogeosciences</i> , 2009 , 6, 2475-2493	4.6	70

72	Physiological and biogeochemical traits of bleaching and recovery in the mounding species of coral <i>Porites lobata</i> : implications for resilience in mounding corals. <i>PLoS ONE</i> , 2013 , 8, e63267	3.7	70
71	Methane hydrate-bearing seeps as a source of aged dissolved organic carbon to the oceans. <i>Nature Geoscience</i> , 2011 , 4, 37-41	18.3	69
70	Photobleaching of dissolved organic material from a tidal marsh-estuarine system of the Chesapeake Bay. <i>Photochemistry and Photobiology</i> , 2007 , 83, 782-92	3.6	68
69	Using in situ ultraviolet-visual spectroscopy to measure nitrogen, carbon, phosphorus, and suspended solids concentrations at a high frequency in a brackish tidal marsh. <i>Limnology and Oceanography: Methods</i> , 2014 , 12, 10-22	2.6	67
68	Predicting Sources of Dissolved Organic Nitrogen to an Estuary from an Agro-Urban Coastal Watershed. <i>Environmental Science & Technology</i> , 2016 , 50, 8473-84	10.3	63
67	Two decades of tropical cyclone impacts on North Carolina estuarine carbon, nutrient and phytoplankton dynamics: implications for biogeochemical cycling and water quality in a stormier world. <i>Biogeochemistry</i> , 2018 , 141, 307-332	3.8	60
66	Chromophoric Dissolved Organic Matter and Dissolved Organic Carbon from Sea-Viewing Wide Field-of-View Sensor (SeaWiFS), Moderate Resolution Imaging Spectroradiometer (MODIS) and MERIS Sensors: Case Study for the Northern Gulf of Mexico. <i>Remote Sensing</i> , 2013 , 5, 1439-1464	5	57
65	The Role of Iron and Dissolved Organic Carbon in the Absorption of Ultraviolet Radiation in Humic Lake Water. <i>Biogeochemistry</i> , 2005 , 75, 393-407	3.8	56
64	Representing the function and sensitivity of coastal interfaces in Earth system models. <i>Nature Communications</i> , 2020 , 11, 2458	17.4	55
63	Tracing water mass mixing in the Baltic-North Sea transition zone using the optical properties of coloured dissolved organic matter. <i>Estuarine, Coastal and Shelf Science</i> , 2010 , 87, 156-162	2.9	51
62	Increases in the longwave photobleaching of chromophoric dissolved organic matter in coastal waters. <i>Limnology and Oceanography</i> , 2009 , 54, 145-159	4.8	50
61	Multiple tracers demonstrate distinct sources of dissolved organic matter to lakes of the Mackenzie Delta, western Canadian Arctic. <i>Limnology and Oceanography</i> , 2011 , 56, 1297-1309	4.8	50
60	New insight into the applicability of spectroscopic indices for dissolved organic matter (DOM) source discrimination in aquatic systems affected by biogeochemical processes. <i>Water Research</i> , 2018 , 147, 164-176	12.5	50
59	Photobleaching response of different sources of chromophoric dissolved organic matter exposed to natural solar radiation using absorption and excitation-emission matrix spectra. <i>PLoS ONE</i> , 2013 , 8, e77515	3.7	47
58	Calculation of spectral weighting functions for the solar photobleaching of chromophoric dissolved organic matter in temperate lakes. <i>Limnology and Oceanography</i> , 2001 , 46, 1455-1467	4.8	47
57	The Arctic in the Twenty-First Century: Changing Biogeochemical Linkages across a Paraglacial Landscape of Greenland. <i>BioScience</i> , 2017 , 67, 118-133	5.7	45
56	Deepwater Horizon oil in Gulf of Mexico waters after 2 years: transformation into the dissolved organic matter pool. <i>Environmental Science & Technology</i> , 2014 , 48, 9288-97	10.3	45
55	Formation of Chromophoric Dissolved Organic Matter by Bacterial Degradation of Phytoplankton-Derived Aggregates. <i>Frontiers in Marine Science</i> , 2018 , 4,	4.5	43

54	Optical and chemical characterization of base-extracted particulate organic matter in coastal marine environments. <i>Marine Chemistry</i> , 2014 , 162, 96-113	3.7	41
53	Seasonal variation in the quality of dissolved and particulate organic matter exchanged between a salt marsh and its adjacent estuary. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015 , 120, 1430-1449	3.7	41
52	Assessing chromophoric dissolved organic matter (CDOM) distribution, stocks, and fluxes in Apalachicola Bay using combined field, VIIRS ocean color, and model observations. <i>Remote Sensing of Environment</i> , 2017 , 191, 359-372	13.2	40
51	Fingerprinting the sources of suspended sediment delivery to a large municipal drinking water reservoir: Falls Lake, Neuse River, North Carolina, USA. <i>Journal of Soils and Sediments</i> , 2013 , 13, 1692-1707	3.4	40
50	Shifts in the Source and Composition of Dissolved Organic Matter in Southwest Greenland Lakes Along a Regional Hydro-climatic Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 3431-3445	3.7	28
49	A connection to deep groundwater alters ecosystem carbon fluxes and budgets: Example from a Costa Rican rainforest. <i>Geophysical Research Letters</i> , 2013 , 40, 2066-2070	4.9	28
48	Compound-specific isotope analysis coupled with multivariate statistics to source-apportion hydrocarbon mixtures. <i>Environmental Science & Technology</i> , 2006 , 40, 1916-24	10.3	27
47	Recent decrease in DOC concentrations in Arctic lakes of southwest Greenland. <i>Geophysical Research Letters</i> , 2015 , 42, 6703-6709	4.9	25
46	Thermal stratification in small arctic lakes of southwest Greenland affected by water transparency and epilimnetic temperatures. <i>Limnology and Oceanography</i> , 2016 , 61, 1530-1542	4.8	25
45	Turbidity in Apalachicola Bay, Florida from Landsat 5 TM and Field Data: Seasonal Patterns and Response to Extreme Events. <i>Remote Sensing</i> , 2017 , 9, 367	5	24
44	Marine snow formation by the toxin-producing diatom, <i>Pseudo-nitzschia australis</i> . <i>Harmful Algae</i> , 2017 , 61, 23-30	5.3	23
43	Seasonal changes in estuarine dissolved organic matter due to variable flushing time and wind-driven mixing events. <i>Estuarine, Coastal and Shelf Science</i> , 2014 , 151, 210-220	2.9	23
42	2,4,6-Trinitrotoluene mineralization and bacterial production rates of natural microbial assemblages from coastal sediments. <i>Environmental Pollution</i> , 2011 , 159, 3673-80	9.3	23
41	Arctic climate shifts drive rapid ecosystem responses across the West Greenland landscape. <i>Environmental Research Letters</i> , 2019 , 14, 074027	6.2	22
40	Phytoplankton productivity across prairie saline lakes of the Great Plains (USA): a step toward deciphering patterns through lake classification models. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2009 , 66, 1435-1448	2.4	22
39	Lingering Carbon Cycle Effects of Hurricane Matthew in North Carolina's Coastal Waters. <i>Geophysical Research Letters</i> , 2019 , 46, 2654-2661	4.9	21
38	Regional Groundwater and Storms Are Hydrologic Controls on the Quality and Export of Dissolved Organic Matter in Two Tropical Rainforest Streams, Costa Rica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 850-866	3.7	19
37	A call for refining the role of humic-like substances in the oceanic iron cycle. <i>Scientific Reports</i> , 2020 , 10, 6144	4.9	17

36	Incorporation and mineralization of TNT and other anthropogenic organics by natural microbial assemblages from a small, tropical estuary. <i>Environmental Pollution</i> , 2013 , 174, 257-64	9.3	17
35	Spatial patterns in dissolved organic matter composition controlled by watershed characteristics in a coastal river network: The Neuse River Basin, USA. <i>Water Research</i> , 2020 , 169, 115248	12.5	17
34	PAH mineralization and bacterial organotolerance in surface sediments of the Charleston Harbor estuary. <i>Biodegradation</i> , 2010 , 21, 257-66	4.1	16
33	Formation of planktonic chromophoric dissolved organic matter in the ocean. <i>Marine Chemistry</i> , 2019 , 209, 1-13	3.7	15
32	Deep Sediment-Sourced Methane Contribution to Shallow Sediment Organic Carbon: Atwater Valley, Texas-Louisiana Shelf, Gulf of Mexico. <i>Energies</i> , 2015 , 8, 1561-1583	3.1	13
31	Stimulation of Phytoplankton Production by Anthropogenic Dissolved Organic Nitrogen in a Coastal Plain Estuary. <i>Environmental Science & Technology</i> , 2017 , 51, 13104-13112	10.3	12
30	Organic Functional Group Chemistry in Mineralized Deposits Containing U(IV) and U(VI) from the Jackpile Mine in New Mexico. <i>Environmental Science & Technology</i> , 2019 , 53, 5758-5767	10.3	12
29	Antecedent precipitation influences the bacterial processing of terrestrial dissolved organic matter in a North Carolina estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 221, 119-131	2.9	12
28	Colored Dissolved Organic Matter Dynamics in the Northern Gulf of Mexico from Ocean Color and Numerical Model Results. <i>Journal of Coastal Research</i> , 2014 , 296, 800-814	0.6	12
27	Extreme weather events modulate processing and export of dissolved organic carbon in the Neuse River Estuary, NC. <i>Estuarine, Coastal and Shelf Science</i> , 2019 , 219, 189-200	2.9	10
26	Desalination technology waste streams: Effect of pH and salinity on metabolism of marine microbial assemblages. <i>Desalination</i> , 2009 , 249, 861-864	10.3	10
25	Dityrosine formation via reactive oxygen consumption yields increasingly recalcitrant humic-like fluorescent organic matter in the ocean. <i>Limnology and Oceanography Letters</i> , 2020 , 5, 337-345	7.9	9
24	Net heterotrophy and carbonate dissolution in two subtropical seagrass meadows. <i>Biogeosciences</i> , 2019 , 16, 4411-4428	4.6	9
23	Stable isotopes reveal independent carbon pools across an Arctic hydro-climatic gradient: Implications for the fate of carbon in warmer and drier conditions. <i>Limnology and Oceanography Letters</i> , 2019 , 4, 205-213	7.9	9
22	Use of Geospatial, Hydrologic, and Geochemical Modeling to Determine the Influence of Wetland-Derived Organic Matter in Coastal Waters in Response to Extreme Weather Events. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	8
21	Increased Capacity for Polycyclic Aromatic Hydrocarbon Mineralization in Bioirrigated Coastal Marine Sediments. <i>Bioremediation Journal</i> , 2008 , 12, 98-110	2.3	8
20	A landscape perspective of Holocene organic carbon cycling in coastal SW Greenland lake-catchments. <i>Quaternary Science Reviews</i> , 2018 , 202, 98-108	3.9	8
19	Shifting DOC concentration and quality in the freshwater lakes of the Kangerlussuaq region: An experimental assessment of possible mechanisms. <i>Arctic, Antarctic, and Alpine Research</i> , 2018 , 50, S1000-1013	1.8	8

18	Biogeochemical Response of Apalachicola Bay and the Shelf Waters to Hurricane Michael Using Ocean Color Semi-Analytic/Inversion and Hydrodynamic Models. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	7
17	Seasonal Trends in Surface pCO ₂ and Air-Sea CO ₂ Fluxes in Apalachicola Bay, Florida, From VIIRS Ocean Color. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 2466-2484	3.7	7
16	Evaluation of Copper Oxide Oxidation for Quantification of Lignin in Municipal Solid Waste. <i>Environmental Engineering Science</i> , 2015 , 32, 486-496	2	5
15	Climate-Driven Changes in Dissolved Organic Carbon and Water Clarity in Arctic Lakes of West Greenland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005170	3.7	5
14	Mechanisms of Organic Matter Export in Estuaries with Contrasting Carbon Sources. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 3168-3188	3.7	5
13	Calcification-driven CO emissions exceed "Blue Carbon" sequestration in a carbonate seagrass meadow.. <i>Science Advances</i> , 2021 , 7, eabj1372	14.3	5
12	Linking Heterotrophic Microbial Activities with Particle Characteristics in Waters of the Mississippi River Delta in the Aftermath of Hurricane Isaac. <i>Frontiers in Marine Science</i> , 2016 , 3,	4.5	5
11	Elevated organic carbon pulses persist in estuarine environment after major storm events. <i>Limnology and Oceanography Letters</i> , 2021 , 6, 43-50	7.9	5
10	Linking chromophoric organic matter transformation with biomarker indices in a marine phytoplankton growth and degradation experiment. <i>Marine Chemistry</i> , 2019 , 214, 103665	3.7	4
9	A Preliminary Assessment of Fossil Fuel and Terrigenous Influences to Rainwater Organic Matter in Summertime in the Northern Gulf of Mexico. <i>Aquatic Geochemistry</i> , 2017 , 23, 217-231	1.7	4
8	LINKING OPTICAL AND CHEMICAL PROPERTIES OF DISSOLVED ORGANIC MATTER IN NATURAL WATERS. <i>Limnology and Oceanography Bulletin</i> , 2013 , 22, 78-82	0.9	3
7	Bioavailability and compositional changes of dissolved organic matter in urban headwaters. <i>Aquatic Sciences</i> , 2020 , 82, 1	2.5	3
6	Variation in ultrafiltered and LMW organic matter fluorescence properties under simulated estuarine mixing transects: 1. Mixing alone. <i>Journal of Geophysical Research</i> , 2010 , 115,		2
5	Net heterotrophy and carbonate dissolution in two subtropical seagrass meadows		2
4	A Decade of Annual Arctic DOC Export With Polar Surface Water in the East Greenland Current. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089686	4.9	2
3	2,4,6-Trinitrotoluene Mineralization and Incorporation by Natural Bacterial Assemblages in Coastal Ecosystems. <i>ACS Symposium Series</i> , 2011 , 171-184	0.4	1
2	Variation in ultrafiltered and LMW organic matter fluorescence properties under simulated estuarine mixing transects: 2. Mixing with photoexposure. <i>Journal of Geophysical Research</i> , 2010 , 115,		1
1	Centennial clonal stability of asexual in Greenland lakes despite climate variability. <i>Ecology and Evolution</i> , 2020 , 10, 14178-14188	2.8	1

