

Brian A Bergamaschi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

6,271
citations

35
h-index

79
g-index

88
ext. papers

7,190
ext. citations

4.6
avg, IF

5.38
L-index

#	Paper	IF	Citations
80	Evaluation of specific ultraviolet absorbance as an indicator of the chemical composition and reactivity of dissolved organic carbon. <i>Environmental Science & Technology</i> , 2003 , 37, 4702-8	10.3	2727
79	Optical properties of dissolved organic matter (DOM): Effects of biological and photolytic degradation. <i>Limnology and Oceanography</i> , 2016 , 61, 1015-1032	4.8	368
78	The effect of grain size and surface area on organic matter, lignin and carbohydrate concentration, and molecular compositions in Peru Margin sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1997 , 61, 1247-1260	5.5	213
77	Taking the pulse of snowmelt: in situ sensors reveal seasonal, event and diurnal patterns of nitrate and dissolved organic matter variability in an upland forest stream. <i>Biogeochemistry</i> , 2012 , 108, 183-198	3.8	187
76	The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015 , 72, 1272-1285	2.4	162
75	Use and environmental occurrence of antibiotics in freestall dairy farms with manured forage fields. <i>Environmental Science & Technology</i> , 2010 , 44, 6591-600	10.3	157
74	Tannin diagenesis in mangrove leaves from a tropical estuary: a novel molecular approach. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 3109-3122	5.5	153
73	Diurnal variability in riverine dissolved organic matter composition determined by in situ optical measurement in the San Joaquin River (California, USA). <i>Hydrological Processes</i> , 2007 , 21, 3181-3189	3.3	137
72	High-frequency in situ optical measurements during a storm event: Assessing relationships between dissolved organic matter, sediment concentrations, and hydrologic processes. <i>Journal of Geophysical Research</i> , 2009 , 114,		121
71	Seeing the light: The effects of particles, dissolved materials, and temperature on in situ measurements of DOM fluorescence in rivers and streams. <i>Limnology and Oceanography: Methods</i> , 2012 , 10, 767-775	2.6	106
70	Fluorescence-based proxies for lignin in freshwater dissolved organic matter. <i>Journal of Geophysical Research</i> , 2009 , 114,		102
69	Tidally driven export of dissolved organic carbon, total mercury, and methylmercury from a mangrove-dominated estuary. <i>Environmental Science & Technology</i> , 2012 , 46, 1371-8	10.3	100
68	The role of hydrologic regimes on dissolved organic carbon composition in an agricultural watershed. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 5266-5277	5.5	96
67	Comparative analyses of DOC and DON in natural waters. <i>Marine Chemistry</i> , 1993 , 41, 121-134	3.7	79
66	Quantifying fluxes and characterizing compositional changes of dissolved organic matter in aquatic systems in situ using combined acoustic and optical measurements. <i>Limnology and Oceanography: Methods</i> , 2009 , 7, 119-131	2.6	78
65	Environmental occurrence and shallow ground water detection of the antibiotic monensin from dairy farms. <i>Journal of Environmental Quality</i> , 2008 , 37, S78-85	3.4	76
64	Mississippi River nitrate loads from high frequency sensor measurements and regression-based load estimation. <i>Environmental Science & Technology</i> , 2014 , 48, 12612-9	10.3	74

63	Assessing the sources and magnitude of diurnal nitrate variability in the San Joaquin River (California) with an in situ optical nitrate sensor and dual nitrate isotopes. <i>Freshwater Biology</i> , 2009 , 54, 376-387	3.1	73
62	High-Resolution Remote Sensing of Water Quality in the San Francisco Bay-Delta Estuary. <i>Environmental Science & Technology</i> , 2016 , 50, 573-83	10.3	66
61	Assessing the contribution of wetlands and subsided islands to dissolved organic matter and disinfection byproduct precursors in the Sacramento-San Joaquin River Delta: A geochemical approach. <i>Organic Geochemistry</i> , 2008 , 39, 1302-1318	3.1	55
60	Comparison of XAD with other dissolved lignin isolation techniques and a compilation of analytical improvements for the analysis of lignin in aquatic settings. <i>Organic Geochemistry</i> , 2010 , 41, 445-453	3.1	54
59	Landscape scale controls on the vascular plant component of dissolved organic carbon across a freshwater delta. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 5968-5984	5.5	52
58	Concurrent photolytic degradation of aqueous methylmercury and dissolved organic matter. <i>Science of the Total Environment</i> , 2014 , 484, 263-75	10.2	51
57	Identifying sources of dissolved organic carbon in agriculturally dominated rivers using radiocarbon age dating: Sacramento-San Joaquin River Basin, California. <i>Biogeochemistry</i> , 2010 , 99, 79-96	3.8	51
56	Microbial degradation of plant leachate alters lignin phenols and trihalomethane precursors. <i>Journal of Environmental Quality</i> , 2010 , 39, 946-54	3.4	47
55	Dissolved organic matter reduces algal accumulation of methylmercury. <i>Environmental Toxicology and Chemistry</i> , 2012 , 31, 1712-9	3.8	45
54	How reservoirs alter drinking water quality: Organic matter sources, sinks, and transformations. <i>Lake and Reservoir Management</i> , 2011 , 27, 205-219	1.3	45
53	DON subgroup report. <i>Marine Chemistry</i> , 1993 , 41, 23-36	3.7	42
52	Pesticides associated with suspended sediments entering San Francisco Bay following the first major storm of water year 1996. <i>Estuaries and Coasts</i> , 2001 , 24, 368		41
51	Variation of energy and carbon fluxes from a restored temperate freshwater wetland and implications for carbon market verification protocols. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016 , 121, 777-795	3.7	40
50	Direct and Indirect Effects of Tides on Ecosystem-Scale CO ₂ Exchange in a Brackish Tidal Marsh in Northern California. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018 , 123, 787-806	3.7	39
49	Determining sources of dissolved organic carbon and disinfection byproduct precursors to the McKenzie River, Oregon. <i>Journal of Environmental Quality</i> , 2010 , 39, 2100-12	3.4	37
48	Suspended sediment fluxes in a tidal wetland: Measurement, controlling factors, and error analysis. <i>Estuaries and Coasts</i> , 2005 , 28, 812-822		37
47	The role of irrigation runoff and winter rainfall on dissolved organic carbon loads in an agricultural watershed. <i>Agriculture, Ecosystems and Environment</i> , 2013 , 179, 1-10	5.7	36
46	Sources, bioavailability, and photoreactivity of dissolved organic carbon in the Sacramento-San Joaquin River Delta. <i>Biogeochemistry</i> , 2005 , 74, 131-149	3.8	36

45	From deposition to erosion: Spatial and temporal variability of sediment sources, storage, and transport in a small agricultural watershed. <i>Geomorphology</i> , 2011 , 132, 272-286	4.3	34
44	Methyl mercury dynamics in a tidal wetland quantified using in situ optical measurements. <i>Limnology and Oceanography</i> , 2011 , 56, 1355-1371	4.8	34
43	Distributions of uronic acids and O-methyl sugars in sinking and sedimentary particles in two coastal marine environments. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 413-425	5.5	33
42	Optical techniques for the determination of nitrate in environmental waters: Guidelines for instrument selection, operation, deployment, maintenance, quality assurance, and data reporting. <i>U S Geological Survey Techniques and Methods</i> ,		31
41	Fecal Indicator and Pathogenic Bacteria and Their Antibiotic Resistance in Alluvial Groundwater of an Irrigated Agricultural Region with Dairies. <i>Journal of Environmental Quality</i> , 2015 , 44, 1435-47	3.4	28
40	Carbon isotopic constraints on the contribution of plant material to the natural precursors of trihalomethanes. <i>Organic Geochemistry</i> , 1999 , 30, 835-842	3.1	26
39	Land management impacts on dairy-derived dissolved organic carbon in ground water. <i>Journal of Environmental Quality</i> , 2008 , 37, 333-43	3.4	22
38	Dissolved Organic Matter Compositional Change and Biolability During Two Storm Runoff Events in a Small Agricultural Watershed. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 2634-2650	3.7	21
37	Using Continuous Underway Isotope Measurements To Map Water Residence Time in Hydrodynamically Complex Tidal Environments. <i>Environmental Science & Technology</i> , 2016 , 50, 13387-13398	10.3	19
36	Assessing contribution of DOC from sediments to a drinking-water reservoir using optical profiling. <i>Lake and Reservoir Management</i> , 2008 , 24, 381-391	1.3	19
35	Mercury Dynamics in a San Francisco Estuary Tidal Wetland: Assessing Dynamics Using In Situ Measurements. <i>Estuaries and Coasts</i> , 2012 , 35, 1036-1048	2.8	17
34	A method for assessing carbon stocks, carbon sequestration, and greenhouse-gas fluxes in ecosystems of the United States under present conditions and future scenarios. <i>USGS Scientific Investigations Report</i> ,		17
33	Plant detritus is selectively consumed by estuarine copepods and can augment their survival. <i>Scientific Reports</i> , 2019 , 9, 9076	4.9	15
32	Hydrologic Export Is a Major Component of Coastal Wetland Carbon Budgets. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006430	5.9	15
31	Tidal Wetland Gross Primary Production Across the Continental United States, 2000-2019. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006349	5.9	14
30	DOM composition in an agricultural watershed: Assessing patterns and variability in the context of spatial scales. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 121, 599-610	5.5	13
29	Spatial variability of phytoplankton in a shallow tidal freshwater system reveals complex controls on abundance and community structure. <i>Science of the Total Environment</i> , 2020 , 700, 134392	10.2	12
28	Using Paired In Situ High Frequency Nitrate Measurements to Better Understand Controls on Nitrate Concentrations and Estimate Nitrification Rates in a Wastewater-Impacted River. <i>Water Resources Research</i> , 2017 , 53, 8423-8442	5.4	11

27	A river-scale Lagrangian experiment examining controls on phytoplankton dynamics in the presence and absence of treated wastewater effluent high in ammonium. <i>Limnology and Oceanography</i> , 2017 , 62, 1234-1253	4.8	10
26	The Use of Stable Isotope-Based Water Age to Evaluate a Hydrodynamic Model. <i>Water (Switzerland)</i> , 2019 , 11, 2207	3	10
25	Low-tide rainfall effects on metal content of suspended sediment in the Sacramento-San Joaquin Delta. <i>Continental Shelf Research</i> , 2013 , 56, 39-55	2.4	9
24	Sources and characteristics of organic matter in the Clackamas River, Oregon, related to the formation of disinfection by-products in treated drinking water. <i>USGS Scientific Investigations Report</i> ,		9
23	In situ optical water-quality sensor networks - Workshop summary report. <i>US Geological Survey Open-File Report</i> ,		7
22	Nutrient Dynamics of the Delta: Effects on Primary Producers. <i>San Francisco Estuary and Watershed Science</i> , 2016 , 14,	1.4	5
21	Water-quality monitoring and studies of the formation and fate of trihalomethanes during the third injection, storage and recovery test at Lancaster, Antelope Valley, California, March 1998 through April 1999. <i>US Geological Survey Open-File Report</i> ,		5
20	Effects of solid-liquid separation and storage on monensin attenuation in dairy waste management systems. <i>Journal of Environmental Management</i> , 2017 , 190, 28-34	7.9	4
19	Recent Advances in Understanding Flow Dynamics and Transport of Water-Quality Constituents in the Sacramento-San Joaquin River Delta. <i>San Francisco Estuary and Watershed Science</i> , 2016 , 14,	1.4	4
18	A multichambered apparatus for HF solvolysis experiments: reaction of cellulose HF solvolysis products with acetic acid and acetic anhydride. <i>Carbohydrate Research</i> , 1995 , 267, 115-126	2.9	4
17	Dissolved pesticides in the Alamo River and the Salton Sea, California, 1996-97. <i>US Geological Survey Open-File Report</i> ,		4
16	Procedures for using the Horiba Scientific Aqualog [®] fluorometer to measure absorbance and fluorescence from dissolved organic matter. <i>US Geological Survey Open-File Report</i> ,		4
15	An assessment of optical properties of dissolved organic material as quantitative source indicators in the Santa Ana River basin, Southern California. <i>USGS Scientific Investigations Report</i> ,		4
14	Irrigation as a fuel pump to freshwater ecosystems. <i>Biogeochemistry</i> , 2017 , 136, 71-90	3.8	3
13	Trihalomethanes Formed from Natural Organic Matter Isolates: Using Isotopic and Compositional Data To Help Understand Sources. <i>ACS Symposium Series</i> , 2000 , 206-222	0.4	3
12	Microbial and Dissolved Organic Carbon Characterization of Stormflow in the Santa Ana River at Imperial Highway, Southern California, 1999-2002. <i>USGS Scientific Investigations Report</i> ,		3
11	Organic Matter Integration, Overprinting, and the Relative Fraction of Optically Active Organic Carbon in a Human-Impacted Watershed. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	2
10	A one-pot procedure for the quantitative conversion of glycosides into acetylated glycosyl fluorides. <i>Carbohydrate Research</i> , 1996 , 280, 345-350	2.9	2

9	Assessing wildlife benefits and carbon storage from restored and natural coastal marshes in the Nisqually River Delta: Determining marsh net ecosystem carbon balance. <i>U S Geological Survey Fact Sheet</i> ,		2
8	Method of analysis at the U.S. Geological Survey California Water Science Center, Sacramento Laboratory - determination of haloacetic acid formation potential, method validation, and quality-control practices. <i>USGS Scientific Investigations Report</i> ,		2
7	Synthesis of data from high-frequency nutrient and associated biogeochemical monitoring for the Sacramento-San Joaquin Delta, northern California. <i>USGS Scientific Investigations Report</i> ,		2
6	Reassessing Particulate Organic Carbon Dynamics in the Highly Disturbed San Francisco Bay Estuary. <i>Frontiers in Earth Science</i> , 2020 , 8,	3.5	1
5	Trihalomethane precursors: Land use hot spots, persistence during transport, and management options. <i>Science of the Total Environment</i> , 2020 , 742, 140571	10.2	1
4	Optical Properties of Water for Prediction of Wastewater Contamination, Human-Associated Bacteria, and Fecal Indicator Bacteria in Surface Water at Three Watershed Scales. <i>Environmental Science & Technology</i> , 2021 , 55, 13770-13782	10.3	1
3	Coordinating standards and applications for optical water quality sensor networks. <i>Eos</i> , 2011 , 92, 251-251.5		
2	Winter Flooding to Conserve Agricultural Peat Soils in a Temperate Climate. <i>Geophysical Monograph Series</i> , 2021 , 321-337		1.1
1	Carbon Flux, Storage, and Wildlife Co-Benefits in a Restoring Estuary. <i>Geophysical Monograph Series</i> , 2021 , 103-125		1.1