

Brian A Bergamaschi

List of Publications by Year in descending order

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68
papers

8,088
citations

87723

38
h-index

91712

69
g-index

88
all docs

88
docs citations

88
times ranked

8194
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 4702-4708.	4.6	3,418
2	Optical properties of dissolved organic matter (DOM): Effects of biological and photolytic degradation. <i>Limnology and Oceanography</i> , 2016, 61, 1015-1032.	1.6	622
3	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.	1.6	266
4	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.	0.7	242
5	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.	1.7	226
6	Use and Environmental Occurrence of Antibiotics in Freestall Dairy Farms with Manured Forage Fields. <i>Environmental Science & Technology</i> , 2010, 44, 6591-6600.	4.6	180
7	Tannin diagenesis in mangrove leaves from a tropical estuary: a novel molecular approach. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3109-3122.	1.6	177
8	Diurnal variability in riverine dissolved organic matter composition determined by <i>in situ</i> optical measurement in the San Joaquin River (California, USA). <i>Hydrological Processes</i> , 2007, 21, 3181-3189.	1.1	156
9	High-frequency <i>in situ</i> 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, .	3.3	149
10	Seeing the light: The effects of particles, dissolved materials, and temperature on <i>in situ</i> measurements of DOM fluorescence in rivers and streams. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 767-775.	1.0	135
11	Fluorescence-based proxies for lignin in freshwater dissolved organic matter. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	121
12	Tidally Driven Export of Dissolved Organic Carbon, Total Mercury, and Methylmercury from a Mangrove-Dominated Estuary. <i>Environmental Science & Technology</i> , 2012, 46, 1371-1378.	4.6	116
13	The role of hydrologic regimes on dissolved organic carbon composition in an agricultural watershed. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5266-5277.	1.6	109
14	Mississippi River Nitrate Loads from High Frequency Sensor Measurements and Regression-Based Load Estimation. <i>Environmental Science & Technology</i> , 2014, 48, 12612-12619.	4.6	98
15	Quantifying fluxes and characterizing compositional changes of dissolved organic matter in aquatic systems <i>in situ</i> using combined acoustic and optical measurements. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 119-131.	1.0	94
16	High-Resolution Remote Sensing of Water Quality in the San Francisco Bay-Delta Estuary. <i>Environmental Science & Technology</i> , 2016, 50, 573-583.	4.6	90
17	Comparative analyses of DOC and DON in natural waters. <i>Marine Chemistry</i> , 1993, 41, 121-134.	0.9	86
18	Environmental Occurrence and Shallow Ground Water Detection of the Antibiotic Monensin from Dairy Farms. <i>Journal of Environmental Quality</i> , 2008, 37, S78-85.	1.0	84

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19	Assessing the sources and magnitude of diurnal nitrate variability in the San Joaquin River (California) with an <i>in situ</i> optical nitrate sensor and dual nitrate isotopes. <i>Freshwater Biology</i> , 2009, 54, 376-387.	1.2	83
20	Concurrent photolytic degradation of aqueous methylmercury and dissolved organic matter. <i>Science of the Total Environment</i> , 2014, 484, 263-275.	3.9	71
21	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.	0.9	68
22	How reservoirs alter drinking water quality: Organic matter sources, sinks, and transformations. <i>Lake and Reservoir Management</i> , 2011, 27, 205-219.	0.4	64
23	Microbial Degradation of Plant Leachate Alters Lignin Phenols and Trihalomethane Precursors. <i>Journal of Environmental Quality</i> , 2010, 39, 946-954.	1.0	62
24	Dissolved organic matter reduces algal accumulation of methylmercury. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 1712-1719.	2.2	61
25	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.	1.7	60
26	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.	1.6	59
27	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.	0.9	59
28	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.	1.3	53
29	DON subgroup report. <i>Marine Chemistry</i> , 1993, 41, 23-36.	0.9	47
30	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.	1.7	47
31	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.	1.3	47
32	Determining Sources of Dissolved Organic Carbon and Disinfection Byproduct Precursors to the McKenzie River, Oregon. <i>Journal of Environmental Quality</i> , 2010, 39, 2100-2112.	1.0	45
33	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.	2.5	44
34	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.	1.1	43
35	Methyl mercury dynamics in a tidal wetland quantified using <i>in situ</i> optical measurements. <i>Limnology and Oceanography</i> , 2011, 56, 1355-1371.	1.6	43
36	Suspended sediment fluxes in a tidal wetland: Measurement, controlling factors, and error analysis. <i>Estuaries and Coasts</i> , 2005, 28, 812-822.	1.7	41

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37	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, 1435-1447.	1.0	41
38	Hydrologic Export Is a Major Component of Coastal Wetland Carbon Budgets. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006430.	1.9	41
39	Sources, bioavailability, and photoreactivity of dissolved organic carbon in the Sacramento-San Joaquin River Delta. <i>Biogeochemistry</i> , 2005, 74, 131-149.	1.7	40
40	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.	3.9	37
41	Tidal Wetland Gross Primary Production Across the Continental United States, 2000-2019. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006349.	1.9	36
42	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.	1.6	35
43	Dissolved Organic Matter Compositional Change and Biolability During Two Storm Runoff Events in a Small Agricultural Watershed. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2017, 122, 2634-2650.	1.3	32
44	Plant detritus is selectively consumed by estuarine copepods and can augment their survival. <i>Scientific Reports</i> , 2019, 9, 9076.	1.6	30
45	Carbon isotopic constraints on the contribution of plant material to the natural precursors of trihalomethanes. <i>Organic Geochemistry</i> , 1999, 30, 835-842.	0.9	29
46	Using Continuous Underway Isotope Measurements To Map Water Residence Time in Hydrodynamically Complex Tidal Environments. <i>Environmental Science & Technology</i> , 2016, 50, 13387-13396.	4.6	27
47	Mercury Dynamics in a San Francisco Estuary Tidal Wetland: Assessing Dynamics Using In Situ Measurements. <i>Estuaries and Coasts</i> , 2012, 35, 1036-1048.	1.0	25
48	Land Management Impacts on Dairy-Derived Dissolved Organic Carbon in Ground Water. <i>Journal of Environmental Quality</i> , 2008, 37, 333-343.	1.0	24
49	Assessing contribution of DOC from sediments to a drinking-water reservoir using optical profiling. <i>Lake and Reservoir Management</i> , 2008, 24, 381-391.	0.4	23
50	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.	1.6	23
51	The Use of Stable Isotope-Based Water Age to Evaluate a Hydrodynamic Model. <i>Water (Switzerland)</i> , 2019, 11, 2207.	1.2	22
52	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.	1.7	18
53	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.	1.6	16
54	Nutrient Dynamics of the Delta: Effects on Primary Producers. <i>San Francisco Estuary and Watershed Science</i> , 2016, 14, .	0.2	13

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55	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.	0.9	9
56	Monitoring Turbidity in San Francisco Estuary and Sacramento-San Joaquin Delta Using Satellite Remote Sensing. <i>Journal of the American Water Resources Association</i> , 2021, 57, 737-751.	1.0	7
57	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, .	0.2	6
58	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, .	0.8	6
59	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.	4.6	6
60	Trihalomethanes Formed from Natural Organic Matter Isolates: Using Isotopic and Compositional Data To Help Understand Sources. <i>ACS Symposium Series</i> , 2000, , 206-222.	0.5	5
61	Irrigation as a fuel pump to freshwater ecosystems. <i>Biogeochemistry</i> , 2017, 136, 71-90.	1.7	5
62	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.	1.1	4
63	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.	3.8	4
64	Reassessing Particulate Organic Carbon Dynamics in the Highly Disturbed San Francisco Bay Estuary. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	3
65	Trihalomethane precursors: Land use hot spots, persistence during transport, and management options. <i>Science of the Total Environment</i> , 2020, 742, 140571.	3.9	3
66	A one-pot procedure for the quantitative conversion of glycosides into acetylated glycosyl fluorides. <i>Carbohydrate Research</i> , 1996, 280, 345-350.	1.1	2
67	Vegetation vs. Anoxic Controls on Degradation of Plant Litter in a Restored Wetland. <i>Frontiers in Environmental Science</i> , 2020, 8, .	1.5	1
68	Coordinating standards and applications for optical water quality sensor networks. <i>Eos</i> , 2011, 92, 251-251.	0.1	0