Brian A Bergamaschi

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6993948/publications.pdf

Version: 2024-02-01

68 papers	8,088 citations	87888 38 h-index	91884 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. Environmental Science & Technology, 2003, 37, 4702-4708.	10.0	3,418
2	Optical properties of dissolved organic matter (DOM): Effects of biological and photolytic degradation. Limnology and Oceanography, 2016, 61, 1015-1032.	3.1	622
3	The effect of grain size and surface area on organic matter, lignin and carbohydrate concentration, and molecular compositions in Peru Margin sediments. Geochimica Et Cosmochimica Acta, 1997, 61, 1247-1260.	3.9	266
4	The river as a chemostat: fresh perspectives on dissolved organic matter flowing down the river continuum. Canadian Journal of Fisheries and Aquatic Sciences, 2015, 72, 1272-1285.	1.4	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. Biogeochemistry, 2012, 108, 183-198.	3.5	226
6	Use and Environmental Occurrence of Antibiotics in Freestall Dairy Farms with Manured Forage Fields. Environmental Science & Technology, 2010, 44, 6591-6600.	10.0	180
7	Tannin diagenesis in mangrove leaves from a tropical estuary: a novel molecular approach. Geochimica Et Cosmochimica Acta, 2001, 65, 3109-3122.	3.9	177
8	Diurnal variability in riverine dissolved organic matter composition determined by in situ optical measurement in the San Joaquin River (California, USA). Hydrological Processes, 2007, 21, 3181-3189.	2.6	156
9	Highâ€frequency in situ optical measurements during a storm event: Assessing relationships between dissolved organic matter, sediment concentrations, and hydrologic processes. Journal of Geophysical Research, 2009, 114, .	3.3	149
10	Seeing the light: The effects of particles, dissolved materials, and temperature on in situ measurements of DOM fluorescence in rivers and streams. Limnology and Oceanography: Methods, 2012, 10, 767-775.	2.0	135
11	Fluorescenceâ€based proxies for lignin in freshwater dissolved organic matter. Journal of Geophysical Research, 2009, 114, .	3.3	121
12	Tidally Driven Export of Dissolved Organic Carbon, Total Mercury, and Methylmercury from a Mangrove-Dominated Estuary. Environmental Science & Technology, 2012, 46, 1371-1378.	10.0	116
13	The role of hydrologic regimes on dissolved organic carbon composition in an agricultural watershed. Geochimica Et Cosmochimica Acta, 2008, 72, 5266-5277.	3.9	109
14	Mississippi River Nitrate Loads from High Frequency Sensor Measurements and Regression-Based Load Estimation. Environmental Science & Technology, 2014, 48, 12612-12619.	10.0	98
15	Quantifying fluxes and characterizing compositional changes of dissolved organic matter in aquatic systems in situ using combined acoustic and optical measurements. Limnology and Oceanography: Methods, 2009, 7, 119-131.	2.0	94
16	High-Resolution Remote Sensing of Water Quality in the San Francisco Bayâ€“Delta Estuary. Environmental Science & Technology, 2016, 50, 573-583.	10.0	90
17	Comparative analyses of DOC and DON in natural waters. Marine Chemistry, 1993, 41, 121-134.	2.3	86
18	Environmental Occurrence and Shallow Ground Water Detection of the Antibiotic Monensin from Dairy Farms. Journal of Environmental Quality, 2008, 37, S78-85.	2.0	84

#	Article	IF	Citations
19	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. Freshwater Biology, 2009, 54, 376-387.	2.4	83
20	Concurrent photolytic degradation of aqueous methylmercury and dissolved organic matter. Science of the Total Environment, 2014, 484, 263-275.	8.0	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. Organic Geochemistry, 2010, 41, 445-453.	1.8	68
22	How reservoirs alter drinking water quality: Organic matter sources, sinks, and transformations. Lake and Reservoir Management, 2011, 27, 205-219.	1.3	64
23	Microbial Degradation of Plant Leachate Alters Lignin Phenols and Trihalomethane Precursors. Journal of Environmental Quality, 2010, 39, 946-954.	2.0	62
24	Dissolved organic matter reduces algal accumulation of methylmercury. Environmental Toxicology and Chemistry, 2012, 31, 1712-1719.	4.3	61
25	Identifying sources of dissolved organic carbon in agriculturally dominated rivers using radiocarbon age dating: Sacramentoâ€“San Joaquin River Basin, California. Biogeochemistry, 2010, 99, 79-96.	3.5	60
26	Landscape scale controls on the vascular plant component of dissolved organic carbon across a freshwater delta. Geochimica Et Cosmochimica Acta, 2007, 71, 5968-5984.	3.9	59
27	Assessing the contribution of wetlands and subsided islands to dissolved organic matter and disinfection byproduct precursors in the Sacramentoâ€“San Joaquin River Delta: A geochemical approach. Organic Geochemistry, 2008, 39, 1302-1318.	1.8	59
28	Direct and Indirect Effects of Tides on Ecosystemâ€Scale CO₂ Exchange in a Brackish Tidal Marsh in Northern California. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 787-806.	3.0	53
29	DON subgroup report. Marine Chemistry, 1993, 41, 23-36.	2.3	47
30	Pesticides Associated with Suspended Sediments Entering San Francisco Bay Following the First Major Storm of Water Year 1996. Estuaries and Coasts, 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. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 777-795.	3.0	47
32	Determining Sources of Dissolved Organic Carbon and Disinfection Byproduct Precursors to the McKenzie River, Oregon. Journal of Environmental Quality, 2010, 39, 2100-2112.	2.0	45
33	The role of irrigation runoff and winter rainfall on dissolved organic carbon loads in an agricultural watershed. Agriculture, Ecosystems and Environment, 2013, 179, 1-10.	5.3	44
34	From deposition to erosion: Spatial and temporal variability of sediment sources, storage, and transport in a small agricultural watershed. Geomorphology, 2011, 132, 272-286.	2.6	43
35	Methyl mercury dynamics in a tidal wetland quantified using in situ optical measurements. Limnology and Oceanography, 2011, 56, 1355-1371.	3.1	43
36	Suspended sediment fluxes in a tidal wetland: Measurement, controlling factors, and error analysis. Estuaries and Coasts, 2005, 28, 812-822.	1.7	41

#	Article	IF	Citations
37	Fecal Indicator and Pathogenic Bacteria and Their Antibiotic Resistance in Alluvial Groundwater of an Irrigated Agricultural Region with Dairies. Journal of Environmental Quality, 2015, 44, 1435-1447.	2.0	41
38	Hydrologic Export Is a Major Component of Coastal Wetland Carbon Budgets. Global Biogeochemical Cycles, 2020, 34, e2019GB006430.	4.9	41
39	Sources, bioavailability, and photoreactivity of dissolved organic carbon in the Sacramentoâ€“San Joaquin River Delta. Biogeochemistry, 2005, 74, 131-149.	3.5	40
40	Spatial variability of phytoplankton in a shallow tidal freshwater system reveals complex controls on abundance and community structure. Science of the Total Environment, 2020, 700, 134392.	8.0	37
41	Tidal Wetland Gross Primary Production Across the Continental United States, 2000â€“2019. Global Biogeochemical Cycles, 2020, 34, e2019GB006349.	4.9	36
42	Distributions of uronic acids and O-methyl sugars in sinking and sedimentary particles in two coastal marine environments. Geochimica Et Cosmochimica Acta, 1999, 63, 413-425.	3.9	35
43	Dissolved Organic Matter Compositional Change and Biolability During Two Storm Runoff Events in a Small Agricultural Watershed. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2634-2650.	3.0	32
44	Plant detritus is selectively consumed by estuarine copepods and can augment their survival. Scientific Reports, 2019, 9, 9076.	3.3	30
45	Carbon isotopic constraints on the contribution of plant material to the natural precursors of trihalomethanes. Organic Geochemistry, 1999, 30, 835-842.	1.8	29
46	Using Continuous Underway Isotope Measurements To Map Water Residence Time in Hydrodynamically Complex Tidal Environments. Environmental Science & Technology, 2016, 50, 13387-13396.	10.0	27
47	Mercury Dynamics in a San Francisco Estuary Tidal Wetland: Assessing Dynamics Using In Situ Measurements. Estuaries and Coasts, 2012, 35, 1036-1048.	2.2	25
48	Land Management Impacts on Dairyâ€Derived Dissolved Organic Carbon in Ground Water. Journal of Environmental Quality, 2008, 37, 333-343.	2.0	24
49	Assessing contribution of DOC from sediments to a drinking-water reservoir using optical profiling. Lake and Reservoir Management, 2008, 24, 381-391.	1.3	23
50	DOM composition in an agricultural watershed: Assessing patterns and variability in the context of spatial scales. Geochimica Et Cosmochimica Acta, 2013, 121, 599-610.	3.9	23
51	The Use of Stable Isotope-Based Water Age to Evaluate a Hydrodynamic Model. Water (Switzerland), 2019, 11, 2207.	2.7	22
52	Using Paired In Situ High Frequency Nitrate Measurements to Better Understand Controls on Nitrate Concentrations and Estimate Nitrification Rates in a Wastewaterâ€Impacted River. Water Resources Research, 2017, 53, 8423-8442.	4.2	18
53	A riverâ€scale Lagrangian experiment examining controls on phytoplankton dynamics in the presence and absence of treated wastewater effluent high in ammonium. Limnology and Oceanography, 2017, 62, 1234-1253.	3.1	16
54	Nutrient Dynamics of the Delta: Effects on Primary Producers. San Francisco Estuary and Watershed Science, 2016, 14, .	0.4	13

#	Article	IF	Citations
55	Low-tide rainfall effects on metal content of suspended sediment in the Sacramento-San Joaquin Delta. Continental Shelf Research, 2013, 56, 39-55.	1.8	9
56	Monitoring Turbidity in San Francisco Estuary and Sacramentoâ€“San Joaquin Delta Using Satellite Remote Sensing. Journal of the American Water Resources Association, 2021, 57, 737-751.	2.4	7
57	Recent Advances in Understanding Flow Dynamics and Transport of Water-Quality Constituents in the Sacramentoâ€“San Joaquin River Delta. San Francisco Estuary and Watershed Science, 2016, 14, .	0.4	6
58	Organic Matter Integration, Overprinting, and the Relative Fraction of Optically Active Organic Carbon in a Human-Impacted Watershed. Frontiers in Earth Science, 2020, 8, .	1.8	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. Environmental Science & Technology, 2021, 55, 13770-13782.	10.0	6
60	Trihalomethanes Formed from Natural Organic Matter Isolates: Using Isotopic and Compositional Data To Help Understand Sources. ACS Symposium Series, 2000, , 206-222.	0.5	5
61	Irrigation as a fuel pump to freshwater ecosystems. Biogeochemistry, 2017, 136, 71-90.	3.5	5
62	A multichambered apparatus for HF solvolysis experiments: reaction of cellulose HF solvolysis products with acetic acid and acetic anhydride. Carbohydrate Research, 1995, 267, 115-126.	2.3	4
63	Effects of solid-liquid separation and storage on monensin attenuation in dairy waste management systems. Journal of Environmental Management, 2017, 190, 28-34.	7.8	4
64	Reassessing Particulate Organic Carbon Dynamics in the Highly Disturbed San Francisco Bay Estuary. Frontiers in Earth Science, 2020, 8, .	1.8	3
65	Trihalomethane precursors: Land use hot spots, persistence during transport, and management options. Science of the Total Environment, 2020, 742, 140571.	8.0	3
66	A one-pot procedure for the quantitative conversion of glycosides into acetylated glycosyl fluorides. Carbohydrate Research, 1996, 280, 345-350.	2.3	2
67	Vegetation vs. Anoxic Controls on Degradation of Plant Litter in a Restored Wetland. Frontiers in Environmental Science, 2020, 8, .	3.3	1
68	Coordinating standards and applications for optical water quality sensor networks. Eos, 2011, 92, 251-251.	0.1	0