

# Brian A Pellerin

## List of Publications by Citations

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39  
papers

2,310  
citations

24  
h-index

41  
g-index

41  
ext. papers

2,717  
ext. citations

4.7  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
39	Optical properties of dissolved organic matter (DOM): Effects of biological and photolytic degradation. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1015-1032	4.8	368
38	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> , <b>2012</b> , 108, 183-198	3.8	187
37	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> , <b>2015</b> , 72, 1272-1285	2.4	162
36	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> , <b>2007</b> , 21, 3181-3189	3.3	137
35	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> , <b>2009</b> , 114,		121
34	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> , <b>2012</b> , 10, 767-775	2.6	106
33	N Retention in Urbanizing Headwater Catchments. <i>Ecosystems</i> , <b>2005</b> , 8, 871-884	3.9	99
32	The application of electrical conductivity as a tracer for hydrograph separation in urban catchments. <i>Hydrological Processes</i> , <b>2008</b> , 22, 1810-1818	3.3	97
31	The role of hydrologic regimes on dissolved organic carbon composition in an agricultural watershed. <i>Geochimica Et Cosmochimica Acta</i> , <b>2008</b> , 72, 5266-5277	5.5	96
30	Emerging Tools for Continuous Nutrient Monitoring Networks: Sensors Advancing Science and Water Resources Protection. <i>Journal of the American Water Resources Association</i> , <b>2016</b> , 52, 993-1008	2.1	83
29	Does Anthropogenic Nitrogen Enrichment Increase Organic Nitrogen Concentrations in Runoff from Forested and Human-dominated Watersheds?. <i>Ecosystems</i> , <b>2006</b> , 9, 852-864	3.9	78
28	Mississippi River nitrate loads from high frequency sensor measurements and regression-based load estimation. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12612-9	10.3	74
27	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> , <b>2009</b> , 54, 376-387	3.1	73
26	Role of wetlands and developed land use on dissolved organic nitrogen concentrations and DON/TDN in northeastern U.S. rivers and streams. <i>Limnology and Oceanography</i> , <b>2004</b> , 49, 910-918	4.8	70
25	The new Landsat 8 potential for remote sensing of colored dissolved organic matter (CDOM). <i>Marine Pollution Bulletin</i> , <b>2016</b> , 107, 518-27	6.7	51
24	Microbial degradation of plant leachate alters lignin phenols and trihalomethane precursors. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 946-54	3.4	47
23	Quantifying watershed-scale groundwater loading and in-stream fate of nitrate using high-frequency water quality data. <i>Water Resources Research</i> , <b>2016</b> , 52, 330-347	5.4	46

22	Monitoring the riverine pulse: Applying high-frequency nitrate data to advance integrative understanding of biogeochemical and hydrological processes. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2019</b> , 6, e1348	5.7	43
21	Determining sources of dissolved organic carbon and disinfection byproduct precursors to the McKenzie River, Oregon. <i>Journal of Environmental Quality</i> , <b>2010</b> , 39, 2100-12	3.4	37
20	The role of irrigation runoff and winter rainfall on dissolved organic carbon loads in an agricultural watershed. <i>Agriculture, Ecosystems and Environment</i> , <b>2013</b> , 179, 1-10	5.7	36
19	From deposition to erosion: Spatial and temporal variability of sediment sources, storage, and transport in a small agricultural watershed. <i>Geomorphology</i> , <b>2011</b> , 132, 272-286	4.3	34
18	Methyl mercury dynamics in a tidal wetland quantified using in situ optical measurements. <i>Limnology and Oceanography</i> , <b>2011</b> , 56, 1355-1371	4.8	34
17	Optical techniques for the determination of nitrate in environmental waters: Guidelines for instrument selection, operation, deployment, maintenance, quality assurance, and data reporting. <i>US Geological Survey Techniques and Methods</i> ,		31
16	Clearing the waters: Evaluating the need for site-specific field fluorescence corrections based on turbidity measurements. <i>Limnology and Oceanography: Methods</i> , <b>2017</b> , 15, 408-416	2.6	25
15	Temporal Variability in Nitrate-Discharge Relationships in Large Rivers as Revealed by High-Frequency Data. <i>Water Resources Research</i> , <b>2019</b> , 55, 973-989	5.4	23
14	Extreme rainfall, vulnerability and risk: a continental-scale assessment for South America. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2013</b> , 371, 20120408		23
13	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> , <b>2017</b> , 122, 2634-2650	3.7	21
12	Spatial and temporal patterns of dissolved organic matter quantity and quality in the Mississippi River Basin, 1997-2013. <i>Hydrological Processes</i> , <b>2017</b> , 31, 902-915	3.3	21
11	Mercury Dynamics in a San Francisco Estuary Tidal Wetland: Assessing Dynamics Using In Situ Measurements. <i>Estuaries and Coasts</i> , <b>2012</b> , 35, 1036-1048	2.8	17
10	Tapping environmental history to recreate America's colonial hydrology. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 8798-803	10.3	16
9	DOM composition in an agricultural watershed: Assessing patterns and variability in the context of spatial scales. <i>Geochimica Et Cosmochimica Acta</i> , <b>2013</b> , 121, 599-610	5.5	13
8	The Role of Snowmelt and Spring Rainfall in Inorganic Nutrient Fluxes from a Large Temperate Watershed, the Androscoggin River Basin (Maine and New Hampshire). <i>Biogeochemistry</i> , <b>2006</b> , 80, 191-203	2.8	12
7	High Frequency Data Exposes Nonlinear Seasonal Controls on Dissolved Organic Matter in a Large Watershed. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 5644-5652	10.3	11
6	Patterns of diel variation in nitrate concentrations in the Potomac River. <i>Freshwater Science</i> , <b>2016</b> , 35, 1117-1132	2	10
5	Irrigation as a fuel pump to freshwater ecosystems. <i>Biogeochemistry</i> , <b>2017</b> , 136, 71-90	3.8	3

4	Organic Matter Integration, Overprinting, and the Relative Fraction of Optically Active Organic Carbon in a Human-Impacted Watershed. <i>Frontiers in Earth Science</i> , <b>2020</b> , 8,	3.5	2
3	Trihalomethane precursors: Land use hot spots, persistence during transport, and management options. <i>Science of the Total Environment</i> , <b>2020</b> , 742, 140571	10.2	1
2	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 &amp; Technology</i> , <b>2021</b> , 55, 13770-13782	10.3	1
1	Coordinating standards and applications for optical water quality sensor networks. <i>Eos</i> , <b>2011</b> , 92, 251-251.5		