

Brian A Pellerin

List of Publications by Year in Descending Order

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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.

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 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
38	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
37	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
36	Temporal Variability in Nitrate-Discharge Relationships in Large Rivers as Revealed by High-Frequency Data. <i>Water Resources Research</i> , 2019 , 55, 973-989	5.4	23
35	Monitoring the riverine pulse: Applying high-frequency nitrate data to advance integrative understanding of biogeochemical and hydrological processes. <i>Wiley Interdisciplinary Reviews: Water</i> , 2019 , 6, e1348	5.7	43
34	High Frequency Data Exposes Nonlinear Seasonal Controls on Dissolved Organic Matter in a Large Watershed. <i>Environmental Science & Technology</i> , 2018 , 52, 5644-5652	10.3	11
33	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
32	Clearing the waters: Evaluating the need for site-specific field fluorescence corrections based on turbidity measurements. <i>Limnology and Oceanography: Methods</i> , 2017 , 15, 408-416	2.6	25
31	Irrigation as a fuel pump to freshwater ecosystems. <i>Biogeochemistry</i> , 2017 , 136, 71-90	3.8	3
30	Spatial and temporal patterns of dissolved organic matter quantity and quality in the Mississippi River Basin, 1997-2013. <i>Hydrological Processes</i> , 2017 , 31, 902-915	3.3	21
29	Patterns of diel variation in nitrate concentrations in the Potomac River. <i>Freshwater Science</i> , 2016 , 35, 1117-1132	2	10
28	The new Landsat 8 potential for remote sensing of colored dissolved organic matter (CDOM). <i>Marine Pollution Bulletin</i> , 2016 , 107, 518-27	6.7	51
27	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
26	Quantifying watershed-scale groundwater loading and in-stream fate of nitrate using high-frequency water quality data. <i>Water Resources Research</i> , 2016 , 52, 330-347	5.4	46
25	Emerging Tools for Continuous Nutrient Monitoring Networks: Sensors Advancing Science and Water Resources Protection. <i>Journal of the American Water Resources Association</i> , 2016 , 52, 993-1008	2.1	83
24	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
23	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

22	Extreme rainfall, vulnerability and risk: a continental-scale assessment for South America. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120408 ³		23
21	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
20	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
19	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
18	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
17	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
16	Coordinating standards and applications for optical water quality sensor networks. <i>Eos</i> , 2011 , 92, 251-251 ⁵		
15	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
14	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
13	Microbial degradation of plant leachate alters lignin phenols and trihalomethane precursors. <i>Journal of Environmental Quality</i> , 2010 , 39, 946-54	3.4	47
12	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
11	Tapping environmental history to recreate America's colonial hydrology. <i>Environmental Science & Technology</i> , 2010 , 44, 8798-803	10.3	16
10	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
9	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
8	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
7	The application of electrical conductivity as a tracer for hydrograph separation in urban catchments. <i>Hydrological Processes</i> , 2008 , 22, 1810-1818	3.3	97
6	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
5	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> , 2006 , 80, 191-203 ^{2.8}		12

4	Does Anthropogenic Nitrogen Enrichment Increase Organic Nitrogen Concentrations in Runoff from Forested and Human-dominated Watersheds?. <i>Ecosystems</i> , 2006 , 9, 852-864	3.9	78
3	N Retention in Urbanizing Headwater Catchments. <i>Ecosystems</i> , 2005 , 8, 871-884	3.9	99
2	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> , 2004 , 49, 910-918	4.8	70
1	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