Francois Guillemette

List of Publications by Citations

30 papers	1,213 citations	19 h-index	33 g-index
33 ext. papers	1,523 ext. citations	5.5 avg, IF	4.85 L-index

#	Paper	IF	Citations
30	Increases in terrestrially derived carbon stimulate organic carbon processing and CO2 emissions in boreal aquatic ecosystems. *Nature Communications*, **2013**, 4, 2972	17.4	174
29	Reconstructing the various facets of dissolved organic carbon bioavailability in freshwater ecosystems. *Limnology and Oceanography*, **2011**, 56, 734-748	4.8	128
28	Unifying Concepts Linking Dissolved Organic Matter Composition to Persistence in Aquatic Ecosystems. *Environmental Science & Technology*, **2018**, 52, 2538-2548	10.3	105
27	Differentiating the degradation dynamics of algal and terrestrial carbon within complex natural dissolved organic carbon in temperate lakes. *Journal of Geophysical Research G: Biogeosciences*, **2013**, 118, 963-973	3.7	96
26	Simultaneous consumption and production of fluorescent dissolved organic matter by lake bacterioplankton. *Environmental Microbiology*, **2012**, 14, 1432-43	5.2	87
25	Widespread occurrence and spatial distribution of glyphosate, atrazine, and neonicotinoids pesticides in the St. Lawrence and tributary rivers. *Environmental Pollution*, **2019**, 250, 29-39	9.3	77
24	Selective consumption and metabolic allocation of terrestrial and algal carbon determine allochthony in lake bacteria. *ISME Journal*, **2016**, 10, 1373-82	11.9	67
23	DOM composition and transformation in boreal forest soils: The effects of temperature and organic-horizon decomposition state. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 2727-2744	3.7	51
22	Seasonal variations of phage life strategies and bacterial physiological states in three northern temperate lakes. *Environmental Microbiology*, **2010**, 12, 628-41	5.2	46
21	Modeling Allochthonous Dissolved Organic Carbon Mineralization Under Variable Hydrologic Regimes in Boreal Lakes. *Ecosystems*, **2017**, 20, 781-795	3.9	43
20	The Ephemeral Signature of Permafrost Carbon in an Arctic Fluvial Network. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 1475-1485	3.7	35
19	Degradation potentials of dissolved organic carbon (DOC) from thawed permafrost peat. *Scientific Reports*, **2017**, 7, 45811	4.9	34
18	Old before your time: Ancient carbon incorporation in contemporary aquatic foodwebs. *Limnology and Oceanography*, **2017**, 62, 1682-1700	4.8	32
17	Preferential sequestration of terrestrial organic matter in boreal lake sediments. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 863-874	3.7	31
16	Effects of compositional changes on reactivity continuum and decomposition kinetics of lake dissolved organic matter. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 1733-1746	3.7	29
15	Flux and Seasonality of Dissolved Organic Matter From the Northern Dvina (Severnaya Dvina) River, Russia. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 1041-1056	3.7	25
14	Unraveling the size-dependent optical properties of dissolved organic matter. *Limnology and Oceanography*, **2018**, 63, 588-601	4.8	23

List of Publications

13	Temporal Dynamics in the Concentration, Flux, and Optical Properties of Tree-Derived Dissolved Organic Matter in an Epiphyte-Laden Oak-Cedar Forest. *Journal of Geophysical Research G: Biogeosciences*, **2017**, 122, 2982-2997	3.7	22
12	An Assessment of Dissolved Organic Carbon Biodegradability and Priming in Blackwater Systems. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 2998-3015	3.7	21
11	Influence of soil frost on the character and degradability of dissolved organic carbon in boreal forest soils. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 829-840	3.7	15
10	Drivers of Dissolved Organic Matter in the Vent and Major Conduits of the World's Largest Freshwater Spring. *Journal of Geophysical Research G: Biogeosciences*, **2018**, 123, 2775-2790	3.7	14
9	High abundances of the nuisance raphidophyte Gonyostomum semen in brown water lakes are associated with high concentrations of iron. *Scientific Reports*, **2018**, 8, 13463	4.9	13
8	A system to quantitatively recover bacterioplankton respiratory CO2 for isotopic analysis to trace sources and ages of organic matter consumed in freshwaters. *Limnology and Oceanography: Methods*, **2006**, 4, 406-415	2.6	12
7	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. *Global Biogeochemical Cycles*, **2020**, 34, e2019GB006495	5.9	12
6	Convergence of Terrestrial Dissolved Organic Matter Composition and the Role of Microbial Buffering in Aquatic Ecosystems. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 3125-3142	3.7	9
5	Key Questions on the Evaporation and Transport of Intercepted Precipitation Open image in new window **2020**, 269-280		3
4	Throughfall and Stemflow: The Crowning Headwaters of the Aquatic Carbon Cycle Open image in new window **2020**, 121-132		3
3	Systematic microbial production of optically active dissolved organic matter in subarctic lake water. *Limnology and Oceanography*, **2020**, 65, 951-961	4.8	3
2	Differential alteration of plant functions by homologous fungal candidate effectors		2
1	Unrelated Fungal Rust Candidate Effectors Act on Overlapping Plant Functions. *Microorganisms*, **2021**, 9,	4.9	1