

# Dolly Kothawala

## List of Publications by Citations

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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.

43  
papers

2,586  
citations

24  
h-index

50  
g-index

50  
ext. papers

3,304  
ext. citations

7.6  
avg. IF

5.33  
L-index

#	Paper	IF	Citations
43	Chemodiversity of dissolved organic matter in lakes driven by climate and hydrology. <i>Nature Communications</i> , <b>2014</b> , 5, 3804	17.4	312
42	Persistence of dissolved organic matter in lakes related to its molecular characteristics. <i>Nature Geoscience</i> , <b>2015</b> , 8, 454-457	18.3	288
41	Controls of dissolved organic matter quality: evidence from a large-scale boreal lake survey. <i>Global Change Biology</i> , <b>2014</b> , 20, 1101-14	11.4	207
40	Organic carbon decomposition rates controlled by water retention time across inland waters. <i>Nature Geoscience</i> , <b>2016</b> , 9, 501-504	18.3	192
39	Inner filter correction of dissolved organic matter fluorescence. <i>Limnology and Oceanography: Methods</i> , <b>2013</b> , 11, 616-630	2.6	167
38	Tracking changes in the optical properties and molecular composition of dissolved organic matter during drinking water production. <i>Water Research</i> , <b>2015</b> , 85, 286-94	12.5	135
37	Selective loss and preservation of lake water dissolved organic matter fluorescence during long-term dark incubations. <i>Science of the Total Environment</i> , <b>2012</b> , 433, 238-46	10.2	116
36	Reactivity continuum of dissolved organic carbon decomposition in lake water. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117,		105
35	Selective decay of terrestrial organic carbon during transport from land to sea. <i>Global Change Biology</i> , <b>2012</b> , 18, 349-355	11.4	100
34	In-lake processes offset increased terrestrial inputs of dissolved organic carbon and color to lakes. <i>PLoS ONE</i> , <b>2013</b> , 8, e70598	3.7	90
33	Influence of dissolved organic matter concentration and composition on the removal efficiency of perfluoroalkyl substances (PFASs) during drinking water treatment. <i>Water Research</i> , <b>2017</b> , 121, 320-328	12.5	72
32	Variability in organic carbon reactivity across lake residence time and trophic gradients. <i>Nature Geoscience</i> , <b>2017</b> , 10, 832-835	18.3	68
31	The relative influence of land cover, hydrology, and in-stream processing on the composition of dissolved organic matter in boreal streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2015</b> , 120, 1491-1505	3.7	67
30	Soil Properties Controlling the Adsorption of Dissolved Organic Carbon to Mineral Soils. <i>Soil Science Society of America Journal</i> , <b>2009</b> , 73, 1831-1842	2.5	67
29	A tale of pipes and reactors: Controls on the in-stream dynamics of dissolved organic matter in rivers. <i>Limnology and Oceanography</i> , <b>2017</b> , 62, S85-S94	4.8	58
28	Selective adsorption of dissolved organic matter to mineral soils. <i>Geoderma</i> , <b>2012</b> , 189-190, 334-342	6.7	54
27	Relationships between DOC concentration, molecular size and fluorescence properties of DOM in a stream. <i>Applied Geochemistry</i> , <b>2007</b> , 22, 1659-1667	3.5	46

26	Adsorption of dissolved organic carbon to mineral soils: A comparison of four isotherm approaches. <i>Geoderma</i> , <b>2008</b> , 148, 43-50	6.7	44
25	Stream Nitrate Responds Rapidly to Decreasing Nitrate Deposition. <i>Ecosystems</i> , <b>2011</b> , 14, 274-286	3.9	37
24	The interplay between total mercury, methylmercury and dissolved organic matter in fluvial systems: A latitudinal study across Europe. <i>Water Research</i> , <b>2018</b> , 144, 172-182	12.5	34
23	Preferential sequestration of terrestrial organic matter in boreal lake sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 863-874	3.7	31
22	Variability in spectral absorbance metrics across boreal lake waters. <i>Journal of Environmental Monitoring</i> , <b>2012</b> , 14, 2643-52		29
21	ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 937-957	6.3	28
20	Adsorption of dissolved nitrogen by forest mineral soils. <i>Canadian Journal of Forest Research</i> , <b>2009</b> , 39, 2381-2390	1.9	25
19	Selective removal of dissolved organic matter affects the production and speciation of disinfection byproducts. <i>Science of the Total Environment</i> , <b>2019</b> , 652, 75-84	10.2	24
18	Changes in the molecular weight distribution of dissolved organic carbon within a Precambrian shield stream. <i>Water Resources Research</i> , <b>2006</b> , 42,	5.4	23
17	Biogeochemical tools for characterizing organic carbon in inland aquatic ecosystems. <i>Limnology and Oceanography Letters</i> , <b>2018</b> , 3, 444-457	7.9	21
16	Hourly, daily, and seasonal variability in the absorption spectra of chromophoric dissolved organic matter in a eutrophic, humic lake. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 1985-1998	3.7	18
15	Selective Adsorption of Terrestrial Dissolved Organic Matter to Inorganic Surfaces Along a Boreal Inland Water Continuum. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005236	3.7	16
14	Stream Dissolved Organic Matter Composition Reflects the Riparian Zone, Not Upslope Soils in Boreal Forest Headwaters. <i>Water Resources Research</i> , <b>2018</b> , 54, 3896-3912	5.4	16
13	How humans alter dissolved organic matter composition in freshwater: relevance for the Earth's biogeochemistry. <i>Biogeochemistry</i> , <b>2021</b> , 154, 323-348	3.8	16
12	Impact of iron associated to organic matter on remote sensing estimates of lake carbon content. <i>Remote Sensing of Environment</i> , <b>2015</b> , 156, 109-116	13.2	14
11	How much carbon can be added to soil by sorption?. <i>Biogeochemistry</i> , <b>2021</b> , 152, 127-142	3.8	13
10	Rainstorm events shift the molecular composition and export of dissolved organic matter in a large drinking water reservoir in China: High frequency buoys and field observations. <i>Water Research</i> , <b>2020</b> , 187, 116471	12.5	11
9	Linking dissolved organic matter composition and bacterioplankton communities in an Amazon floodplain system. <i>Limnology and Oceanography</i> , <b>2020</b> , 65, 63-76	4.8	10

8	Organic Matter Degradation across Ecosystem Boundaries: The Need for a Unified Conceptualization. <i>Trends in Ecology and Evolution</i> , <b>2021</b> , 36, 113-122	10.9	8
7	Understanding Dissolved Organic Matter Reactivity and Composition in Lakes and Streams Using Proton-Transfer-Reaction Mass Spectrometry (PTR-MS). <i>Environmental Science and Technology Letters</i> , <b>2018</b> , 5, 739-744	11	8
6	Rice-paddy field acts as a buffer system to decrease the terrestrial characteristics of dissolved organic matter exported from a typical small agricultural watershed in the Three Gorges Reservoir Area, China. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 23873-23885	5.1	3
5	Cleaning and sampling protocol for analysis of mercury and dissolved organic matter in freshwater systems. <i>MethodsX</i> , <b>2018</b> , 5, 1017-1026	1.9	3
4	Sequestration and Loss of Organic Carbon in Inland Waters: From Microscale to Global Scale <b>2013</b> , 349-351		2
3	Particles and Aeration at Mire-Stream Interfaces Cause Selective Removal and Modification of Dissolved Organic Matter. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2020JG005654 <sup>3.7</sup>		2
2	How hydrology and anthropogenic activity influence the molecular composition and export of dissolved organic matter: Observations along a large river continuum. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 1730-1742	4.8	2
1	ORCHIDEE-SOM: Modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe <b>2017</b> ,		1