

# Dolly Kothawala

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

3,963  
citations

159585

30  
h-index

243625

44  
g-index

50  
all docs

50  
docs citations

50  
times ranked

3946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemodiversity of dissolved organic matter in lakes driven by climate and hydrology. <i>Nature Communications</i> , 2014, 5, 3804.	12.8	508
2	Persistence of dissolved organic matter in lakes related to its molecular characteristics. <i>Nature Geoscience</i> , 2015, 8, 454-457.	12.9	457
3	Organic carbon decomposition rates controlled by water retention time across inland waters. <i>Nature Geoscience</i> , 2016, 9, 501-504.	12.9	292
4	Controls of dissolved organic matter quality: evidence from a large-scale boreal lake survey. <i>Global Change Biology</i> , 2014, 20, 1101-1114.	9.5	287
5	Inner filter correction of dissolved organic matter fluorescence. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 616-630.	2.0	244
6	Tracking changes in the optical properties and molecular composition of dissolved organic matter during drinking water production. <i>Water Research</i> , 2015, 85, 286-294.	11.3	191
7	Selective loss and preservation of lake water dissolved organic matter fluorescence during long-term dark incubations. <i>Science of the Total Environment</i> , 2012, 433, 238-246.	8.0	164
8	Reactivity continuum of dissolved organic carbon decomposition in lake water. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	143
9	Influence of dissolved organic matter concentration and composition on the removal efficiency of perfluoroalkyl substances (PFASs) during drinking water treatment. <i>Water Research</i> , 2017, 121, 320-328.	11.3	122
10	Selective decay of terrestrial organic carbon during transport from land to sea. <i>Global Change Biology</i> , 2012, 18, 349-355.	9.5	120
11	Variability in organic carbon reactivity across lake residence time and trophic gradients. <i>Nature Geoscience</i> , 2017, 10, 832-835.	12.9	114
12	In-Lake Processes Offset Increased Terrestrial Inputs of Dissolved Organic Carbon and Color to Lakes. <i>PLoS ONE</i> , 2013, 8, e70598.	2.5	103
13	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> , 2015, 120, 1491-1505.	3.0	84
14	A tale of pipes and reactors: Controls on the in-stream dynamics of dissolved organic matter in rivers. <i>Limnology and Oceanography</i> , 2017, 62, S85.	3.1	82
15	Soil Properties Controlling the Adsorption of Dissolved Organic Carbon to Mineral Soils. <i>Soil Science Society of America Journal</i> , 2009, 73, 1831-1842.	2.2	79
16	How humans alter dissolved organic matter composition in freshwater: relevance for the Earth's biogeochemistry. <i>Biogeochemistry</i> , 2021, 154, 323-348.	3.5	75
17	Selective adsorption of dissolved organic matter to mineral soils. <i>Geoderma</i> , 2012, 189-190, 334-342.	5.1	69
18	Adsorption of dissolved organic carbon to mineral soils: A comparison of four isotherm approaches. <i>Geoderma</i> , 2008, 148, 43-50.	5.1	56

#	ARTICLE	IF	CITATIONS
19	Preferential sequestration of terrestrial organic matter in boreal lake sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 863-874.	3.0	53
20	The interplay between total mercury, methylmercury and dissolved organic matter in fluvial systems: A latitudinal study across Europe. <i>Water Research</i> , 2018, 144, 172-182.	11.3	53
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> , 2018, 11, 937-957.	3.6	52
22	Relationships between DOC concentration, molecular size and fluorescence properties of DOM in a stream. <i>Applied Geochemistry</i> , 2007, 22, 1659-1667.	3.0	51
23	Organic Matter Degradation across Ecosystem Boundaries: The Need for a Unified Conceptualization. <i>Trends in Ecology and Evolution</i> , 2021, 36, 113-122.	8.7	44
24	Stream Nitrate Responds Rapidly to Decreasing Nitrate Deposition. <i>Ecosystems</i> , 2011, 14, 274-286.	3.4	43
25	Variability in spectral absorbance metrics across boreal lake waters. <i>Journal of Environmental Monitoring</i> , 2012, 14, 2643.	2.1	41
26	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> , 2020, 187, 116471.	11.3	38
27	Biogeochemical tools for characterizing organic carbon in inland aquatic ecosystems. <i>Limnology and Oceanography Letters</i> , 2018, 3, 444-457.	3.9	37
28	Unraveling the Role of Anthropogenic and Natural Drivers in Shaping the Molecular Composition and Biolability of Dissolved Organic Matter in Non-pristine Lakes. <i>Environmental Science &amp; Technology</i> , 2022, 56, 4655-4664.	10.0	36
29	Adsorption of dissolved nitrogen by forest mineral soils. <i>Canadian Journal of Forest Research</i> , 2009, 39, 2381-2390.	1.7	34
30	Selective Adsorption of Terrestrial Dissolved Organic Matter to Inorganic Surfaces Along a Boreal Inland Water Continuum. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005236.	3.0	33
31	Selective removal of dissolved organic matter affects the production and speciation of disinfection byproducts. <i>Science of the Total Environment</i> , 2019, 652, 75-84.	8.0	30
32	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> , 2021, 66, 1730-1742.	3.1	29
33	How much carbon can be added to soil by sorption?. <i>Biogeochemistry</i> , 2021, 152, 127-142.	3.5	27
34	Changes in the molecular weight distribution of dissolved organic carbon within a Precambrian shield stream. <i>Water Resources Research</i> , 2006, 42, .	4.2	26
35	Stream Dissolved Organic Matter Composition Reflects the Riparian Zone, Not Upslope Soils in Boreal Forest Headwaters. <i>Water Resources Research</i> , 2018, 54, 3896-3912.	4.2	24
36	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> , 2014, 119, 1985-1998.	3.0	21

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37	Linking dissolved organic matter composition and bacterioplankton communities in an Amazon floodplain system. <i>Limnology and Oceanography</i> , 2020, 65, 63-76.	3.1	18
38	Unified understanding of intrinsic and extrinsic controls of dissolved organic carbon reactivity in aquatic ecosystems. <i>Ecology</i> , 2022, 103, .	3.2	18
39	Impact of iron associated to organic matter on remote sensing estimates of lake carbon content. <i>Remote Sensing of Environment</i> , 2015, 156, 109-116.	11.0	17
40	The influence of pH on dissolved organic matter fluorescence in inland waters. <i>Analytical Methods</i> , 2022, 14, 1351-1360.	2.7	12
41	Cleaning and sampling protocol for analysis of mercury and dissolved organic matter in freshwater systems. <i>MethodsX</i> , 2018, 5, 1017-1026.	1.6	11
42	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> , 2018, 5, 739-744.	8.7	9
43	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> , 2019, 26, 23873-23885.	5.3	6
44	Particles and Aeration at Mireâ€Stream Interfaces Cause Selective Removal and Modification of Dissolved Organic Matter. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005654.	3.0	6
45	Sequestration and Loss of Organic Carbon in Inland Waters: From Microscale to Global Scale. , 2013, , 349-351.		2