

# David C Podgorski

## List of Publications by Year in descending order

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71  
papers

3,346  
citations

117571

34  
h-index

155592

55  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3525  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anthropogenic landcover impacts fluvial dissolved organic matter composition in the Upper Mississippi River Basin. <i>Biogeochemistry</i> , 2023, 164, 117-141.	1.7	16
2	A History of Molecular Level Analysis of Natural Organic Matter by FTICR Mass Spectrometry and The Paradigm Shift in Organic Geochemistry. <i>Mass Spectrometry Reviews</i> , 2022, 41, 215-239.	2.8	37
3	Dissolved organic matter production from herder application and in-situ burning of crude oil at high latitudes: Bioavailable molecular composition patterns and microbial community diversity effects. <i>Journal of Hazardous Materials</i> , 2022, 424, 127598.	6.5	7
4	Trapped Under Ice: Spatial and Seasonal Dynamics of Dissolved Organic Matter Composition in Tundra Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	3
5	Unique Molecular Features of Water-Soluble Photo-Oxidation Products among Refined Fuels, Crude Oil, and Herded Burnt Residue under High Latitude Conditions. <i>ACS ES&amp;T Water</i> , 2022, 2, 994-1002.	2.3	12
6	Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. <i>Science Advances</i> , 2022, 8, .	4.7	16
7	Hydrocarbons to carboxyl-rich alicyclic molecules: A continuum model to describe biodegradation of petroleum-derived dissolved organic matter in contaminated groundwater plumes. <i>Journal of Hazardous Materials</i> , 2021, 402, 123998.	6.5	31
8	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006719.	1.9	30
9	Composition and lability of photochemically released dissolved organic matter from resuspended estuarine sediments. <i>Organic Geochemistry</i> , 2021, 151, 104164.	0.9	13
10	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.	1.6	29
11	Humic substances and living systems: Impact on environmental and human health. <i>Environmental Research</i> , 2021, 194, 110726.	3.7	5
12	Molecular Signatures of Glacial Dissolved Organic Matter From Svalbard and Greenland. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006709.	1.9	17
13	Controls on Riverine Dissolved Organic Matter Composition Across an Arctic-Boreal Latitudinal Gradient. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG005988.	1.3	7
14	Characterization of Asphaltenes and Petroleum Using Benzenepolycarboxylic Acids (BPCAs) and Compound-Specific Stable Carbon Isotopes. <i>Energy &amp; Fuels</i> , 2021, 35, 18135-18145.	2.5	14
15	Characterizing chemical herder effects on dissolved burn residue content in Alaska seawater and microbial community response. <i>International Oil Spill Conference Proceedings</i> , 2021, 2021, .	0.1	0
16	Land-use controls on carbon biogeochemistry in lowland streams of the Congo Basin. <i>Global Change Biology</i> , 2020, 26, 1374-1389.	4.2	30
17	Fundamental drivers of dissolved organic matter composition across an Arctic effective precipitation gradient. <i>Limnology and Oceanography</i> , 2020, 65, 1217-1234.	1.6	36
18	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006495.	1.9	29

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19	Life at the Frozen Limit: Microbial Carbon Metabolism Across a Late Pleistocene Permafrost Chronosequence. <i>Frontiers in Microbiology</i> , 2020, 11, 1753.	1.5	16
20	Wildfires lead to decreased carbon and increased nitrogen concentrations in upland arctic streams. <i>Scientific Reports</i> , 2020, 10, 8722.	1.6	41
21	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 235-258.	1.0	109
22	Hydrologic connectivity determines dissolved organic matter biogeochemistry in northern high-latitude lakes. <i>Limnology and Oceanography</i> , 2020, 65, 1764-1780.	1.6	37
23	Sunlight-Induced Molecular Progression of Oil into Oxidized Oil Soluble Species, Interfacial Material, and Dissolved Organic Matter. <i>Energy &amp; Fuels</i> , 2020, 34, 4721-4726.	2.5	41
24	Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , 2020, 92, 1447-1467.	0.9	15
25	The Molecular Composition of Humic Substances Isolated From Yedoma Permafrost and Alas Cores in the Eastern Siberian Arctic as Measured by Ultrahigh Resolution Mass Spectrometry. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2432-2445.	1.3	9
26	Dissolved Organic Carbon Turnover in Permafrost-Influenced Watersheds of Interior Alaska: Molecular Insights and the Priming Effect. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	46
27	Examining the Extraction Efficiency of Petroleum-Derived Dissolved Organic Matter in Contaminated Groundwater Plumes. <i>Ground Water Monitoring and Remediation</i> , 2019, 39, 25-31.	0.6	10
28	Autochthonous dissolved organic matter potentially fuels methane ebullition from experimental lakes. <i>Water Research</i> , 2019, 166, 115048.	5.3	48
29	Response of chromophoric dissolved organic matter dynamics to tidal oscillations and anthropogenic disturbances in a large subtropical estuary. <i>Science of the Total Environment</i> , 2019, 662, 769-778.	3.9	29
30	Molecular-Level Composition and Acute Toxicity of Photosolubilized Petrogenic Carbon. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8235-8243.	4.6	57
31	Mobilization of aged and biolabile soil carbon by tropical deforestation. <i>Nature Geoscience</i> , 2019, 12, 541-546.	5.4	97
32	Increasing Organic Carbon Biolability With Depth in Yedoma Permafrost: Ramifications for Future Climate Change. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2021-2038.	1.3	41
33	Identifying the Molecular Signatures of Agricultural Expansion in Amazonian Headwater Streams. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 1637-1650.	1.3	53
34	Glacier meltwater and monsoon precipitation drive Upper Ganges Basin dissolved organic matter composition. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 216-228.	1.6	28
35	Flux and Seasonality of Dissolved Organic Matter From the Northern Dvina (Severnaya Dvina) River, Russia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1041-1056.	1.3	33
36	Selective Leaching of Dissolved Organic Matter From Alpine Permafrost Soils on the Qinghai-Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1005-1016.	1.3	24

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37	The Ephemeral Signature of Permafrost Carbon in an Arctic Fluvial Network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1475-1485.	1.3	53
38	Unifying Concepts Linking Dissolved Organic Matter Composition to Persistence in Aquatic Ecosystems. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2538-2548.	4.6	204
39	High fire-derived nitrogen deposition on central African forests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 549-554.	3.3	46
40	21 Tesla FT-ICR Mass Spectrometer for Ultrahigh-Resolution Analysis of Complex Organic Mixtures. <i>Analytical Chemistry</i> , 2018, 90, 2041-2047.	3.2	216
41	Examining Natural Attenuation and Acute Toxicity of Petroleum-Derived Dissolved Organic Matter with Optical Spectroscopy. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6157-6166.	4.6	73
42	Spatiotemporal transformation of dissolved organic matter along an alpine stream flow path on the Qinghai-Tibet Plateau: importance of source and permafrost degradation. <i>Biogeosciences</i> , 2018, 15, 6637-6648.	1.3	19
43	Response of dissolved organic matter optical properties to net inflow runoff in a large fluvial plain lake and the connecting channels. <i>Science of the Total Environment</i> , 2018, 639, 876-887.	3.9	25
44	Accumulation of Terrestrial Dissolved Organic Matter Potentially Enhances Dissolved Methane Levels in Eutrophic Lake Taihu, China. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10297-10306.	4.6	76
45	Drivers of Dissolved Organic Matter in the Vent and Major Conduits of the World's Largest Freshwater Spring. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2775-2790.	1.3	20
46	Molecular composition and bioavailability of dissolved organic nitrogen in a lake flow-influenced river in south Florida, USA. <i>Aquatic Sciences</i> , 2017, 79, 891-908.	0.6	22
47	Impact of Photooxidation and Biodegradation on the Fate of Oil Spilled During the Deepwater Horizon Incident: Advanced Stages of Weathering. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7412-7421.	4.6	45
48	Molecular and Spectroscopic Characterization of Water Extractable Organic Matter from Thermally Altered Soils Reveal Insight into Disinfection Byproduct Precursors. <i>Environmental Science &amp; Technology</i> , 2017, 51, 771-779.	4.6	42
49	Dual-Column Aromatic Ring Class Separation with Improved Universal Detection across Mobile-Phase Gradients via Eluate Dilution. <i>Energy &amp; Fuels</i> , 2017, 31, 12064-12071.	2.5	19
50	Photodissolution of charcoal and fire-impacted soil as a potential source of dissolved black carbon in aquatic environments. <i>Organic Geochemistry</i> , 2017, 112, 16-21.	0.9	45
51	THE LEGACY OF SPILLED OIL AND FUEL IN GROUNDWATER: SOURCE ZONE PERSISTENCE AND PLUME GROWTH. , 2017, , .		0
52	Elemental composition and optical properties reveal changes in dissolved organic matter along a permafrost thaw chronosequence in a subarctic peatland. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 187, 123-140.	1.6	77
53	DOM composition and transformation in boreal forest soils: The effects of temperature and organic horizon decomposition state. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2727-2744.	1.3	77
54	Characterization of CHOS compounds in rainwater from continental and coastal storms by ultrahigh resolution mass spectrometry. <i>Atmospheric Environment</i> , 2015, 105, 162-168.	1.9	29

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55	Longitudinal shifts in dissolved organic matter chemogeography and chemodiversity within headwater streams: a river continuum reprise. <i>Biogeochemistry</i> , 2015, 124, 371-385.	1.7	60
56	Sunlight creates oxygenated species in water-soluble fractions of Deepwater horizon oil. <i>Journal of Hazardous Materials</i> , 2014, 280, 636-643.	6.5	83
57	Molecular Evidence of Heavy-Oil Weathering Following the M/V <i>Cosco Busan</i> Spill: Insights from Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3760-3767.	4.6	35
58	Oil Spill Source Identification by Principal Component Analysis of Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectra. <i>Analytical Chemistry</i> , 2013, 85, 9064-9069.	3.2	51
59	Molecular-level characterization of reactive and refractory dissolved natural organic nitrogen compounds by atmospheric pressure photoionization coupled to Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 851-858.	0.7	44
60	Heavy Petroleum Composition. 5. Compositional and Structural Continuum of Petroleum Revealed. <i>Energy &amp; Fuels</i> , 2013, 27, 1268-1276.	2.5	166
61	Insights into dissolved organic matter complexity in rainwater from continental and coastal storms by ultrahigh resolution Fourier transform ion cyclotron resonance mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4829-4838.	1.9	44
62	Characterization of Pyrogenic Black Carbon by Desorption Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 1281-1287.	3.2	80
63	Selective Ionization of Dissolved Organic Nitrogen by Positive Ion Atmospheric Pressure Photoionization Coupled with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Analytical Chemistry</i> , 2012, 84, 5085-5090.	3.2	31
64	Dissolved Organic Matter in Headwater Streams: Compositional Variability across Climatic Regions of North America. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 94, 95-108.	1.6	116
65	Comparison of dialysis and solid-phase extraction for isolation and concentration of dissolved organic matter prior to Fourier transform ion cyclotron resonance mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 447-457.	1.9	52
66	Influence of acidification on the optical properties and molecular composition of dissolved organic matter. <i>Analytica Chimica Acta</i> , 2011, 706, 261-267.	2.6	39
67	Characterization of dissolved organic matter across the Subtropical Convergence off the South Island, New Zealand. <i>Marine Chemistry</i> , 2011, 123, 99-110.	0.9	87
68	Analysis and Comparison of Paraffinic Field Deposits to Cold Finger Deposits on a Brazilian Campos Basin Crude Oil. , 2011, , .		5
69	Decomposition of plankton-derived dissolved organic matter in permeable coastal sediments. <i>Limnology and Oceanography</i> , 2010, 55, 857-871.	1.6	32
70	Decomposition of plankton-derived dissolved organic matter in permeable coastal sediments. <i>Limnology and Oceanography</i> , 2010, 55, 857-871.	1.6	28
71	Photochemically Induced Changes in Dissolved Organic Matter Identified by Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2009, 43, 698-703.	4.6	233