David C Podgorski

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Anthropogenic landcover impacts fluvial dissolved organic matter composition in the Upper Mississippi River Basin. Biogeochemistry, 2023, 164, 117-141.	3.5	16
2	A History of Molecular Level Analysis of Natural Organic Matter by FTICR Mass Spectrometry and The Paradigm Shift in Organic Geochemistry. Mass Spectrometry Reviews, 2022, 41, 215-239.	5.4	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. Journal of Hazardous Materials, 2022, 424, 127598.	12.4	7
4	Trapped Under Ice: Spatial and Seasonal Dynamics of Dissolved Organic Matter Composition in Tundra Lakes. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	3
5	Unique Molecular Features of Water-Soluble Photo-Oxidation Products among Refined Fuels, Crude Oil, and Herded Burnt Residue under High Latitude Conditions. ACS ES&T Water, 2022, 2, 994-1002.	4.6	12
6	Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. Science Advances, 2022, 8, .	10.3	16
7	Hydrocarbons to carboxyl-rich alicyclic molecules: A continuum model to describe biodegradation of petroleum-derived dissolved organic matter in contaminated groundwater plumes. Journal of Hazardous Materials, 2021, 402, 123998.	12.4	31
8	Stream Dissolved Organic Matter in Permafrost Regions Shows Surprising Compositional Similarities but Negative Priming and Nutrient Effects. Global Biogeochemical Cycles, 2021, 35, e2020GB006719.	4.9	30
9	Composition and lability of photochemically released dissolved organic matter from resuspended estuarine sediments. Organic Geochemistry, 2021, 151, 104164.	1.8	13
10	How hydrology and anthropogenic activity influence the molecular composition and export of dissolved organic matter: Observations along a large river continuum. Limnology and Oceanography, 2021, 66, 1730-1742.	3.1	29
11	Humic substances and living systems: Impact on environmental and human health. Environmental Research, 2021, 194, 110726.	7.5	5
12	Molecular Signatures of Glacial Dissolved Organic Matter From Svalbard and Greenland. Global Biogeochemical Cycles, 2021, 35, e2020GB006709.	4.9	17
13	Controls on Riverine Dissolved Organic Matter Composition Across an Arcticâ€Boreal Latitudinal Gradient. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005988.	3.0	7
14	Characterization of Asphaltenes and Petroleum Using Benzenepolycarboxylic Acids (BPCAs) and Compound-Specific Stable Carbon Isotopes. Energy & Fuels, 2021, 35, 18135-18145.	5.1	14
15	Characterizing chemical herder effects on dissolved burn residue content in Alaska seawater and microbial community response. International Oil Spill Conference Proceedings, 2021, 2021, .	0.1	0
16	Landâ€use controls on carbon biogeochemistry in lowland streams of the Congo Basin. Global Change Biology, 2020, 26, 1374-1389.	9.5	30
17	Fundamental drivers of dissolved organic matter composition across an Arctic effective precipitation gradient. Limnology and Oceanography, 2020, 65, 1217-1234.	3.1	36
18	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. Global Biogeochemical Cycles, 2020, 34, e2019GB006495.	4.9	29

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19	Life at the Frozen Limit: Microbial Carbon Metabolism Across a Late Pleistocene Permafrost Chronosequence. Frontiers in Microbiology, 2020, 11, 1753.	3.5	16
20	Wildfires lead to decreased carbon and increased nitrogen concentrations in upland arctic streams. Scientific Reports, 2020, 10, 8722.	3.3	41
21	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. Limnology and Oceanography: Methods, 2020, 18, 235-258.	2.0	109
22	Hydrologic connectivity determines dissolved organic matter biogeochemistry in northern high″atitude lakes. Limnology and Oceanography, 2020, 65, 1764-1780.	3.1	37
23	Sunlight-Induced Molecular Progression of Oil into Oxidized Oil Soluble Species, Interfacial Material, and Dissolved Organic Matter. Energy & Fuels, 2020, 34, 4721-4726.	5.1	41
24	Interlaboratory comparison of humic substances compositional space as measured by Fourier transform ion cyclotron resonance mass spectrometry (IUPAC Technical Report). Pure and Applied Chemistry, 2020, 92, 1447-1467.	1.9	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. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2432-2445.	3.0	9
26	Dissolved Organic Carbon Turnover in Permafrost-Influenced Watersheds of Interior Alaska: Molecular Insights and the Priming Effect. Frontiers in Earth Science, 2019, 7, .	1.8	46
27	Examining the Extraction Efficiency of Petroleumâ€Derived Dissolved Organic Matter in Contaminated Groundwater Plumes. Ground Water Monitoring and Remediation, 2019, 39, 25-31.	0.8	10
28	Autochthonous dissolved organic matter potentially fuels methane ebullition from experimental lakes. Water Research, 2019, 166, 115048.	11.3	48
29	Response of chromophoric dissolved organic matter dynamics to tidal oscillations and anthropogenic disturbances in a large subtropical estuary. Science of the Total Environment, 2019, 662, 769-778.	8.0	29
30	Molecular-Level Composition and Acute Toxicity of Photosolubilized Petrogenic Carbon. Environmental Science & Technology, 2019, 53, 8235-8243.	10.0	57
31	Mobilization of aged and biolabile soil carbon by tropical deforestation. Nature Geoscience, 2019, 12, 541-546.	12.9	97
32	Increasing Organic Carbon Biolability With Depth in Yedoma Permafrost: Ramifications for Future Climate Change. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 2021-2038.	3.0	41
33	Identifying the Molecular Signatures of Agricultural Expansion in Amazonian Headwater Streams. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 1637-1650.	3.0	53
34	Glacier meltwater and monsoon precipitation drive Upper Ganges Basin dissolved organic matter composition. Geochimica Et Cosmochimica Acta, 2019, 244, 216-228.	3.9	28
35	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.	3.0	33
36	Selective Leaching of Dissolved Organic Matter From Alpine Permafrost Soils on the Qinghaiâ€Tibetan Plateau. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1005-1016.	3.0	24

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37	The Ephemeral Signature of Permafrost Carbon in an Arctic Fluvial Network. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1475-1485.	3.0	53
38	Unifying Concepts Linking Dissolved Organic Matter Composition to Persistence in Aquatic Ecosystems. Environmental Science & amp; Technology, 2018, 52, 2538-2548.	10.0	204
39	High fire-derived nitrogen deposition on central African forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 549-554.	7.1	46
40	21 Tesla FT-ICR Mass Spectrometer for Ultrahigh-Resolution Analysis of Complex Organic Mixtures. Analytical Chemistry, 2018, 90, 2041-2047.	6.5	216
41	Examining Natural Attenuation and Acute Toxicity of Petroleum-Derived Dissolved Organic Matter with Optical Spectroscopy. Environmental Science & Technology, 2018, 52, 6157-6166.	10.0	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. Biogeosciences, 2018, 15, 6637-6648.	3.3	19
43	Response of dissolved organic matter optical properties to net inflow runoff in a large fluvial plain lake and the connecting channels. Science of the Total Environment, 2018, 639, 876-887.	8.0	25
44	Accumulation of Terrestrial Dissolved Organic Matter Potentially Enhances Dissolved Methane Levels in Eutrophic Lake Taihu, China. Environmental Science & Technology, 2018, 52, 10297-10306.	10.0	76
45	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.	3.0	20
46	Molecular composition and bioavailability of dissolved organic nitrogen in a lake flow-influenced river in south Florida, USA. Aquatic Sciences, 2017, 79, 891-908.	1.5	22
47	Impact of Photooxidation and Biodegradation on the Fate of Oil Spilled During the Deepwater Horizon Incident: Advanced Stages of Weathering. Environmental Science & Technology, 2017, 51, 7412-7421.	10.0	45
48	Molecular and Spectroscopic Characterization of Water Extractable Organic Matter from Thermally Altered Soils Reveal Insight into Disinfection Byproduct Precursors. Environmental Science & Technology, 2017, 51, 771-779.	10.0	42
49	Dual-Column Aromatic Ring Class Separation with Improved Universal Detection across Mobile-Phase Gradients via Eluate Dilution. Energy & Fuels, 2017, 31, 12064-12071.	5.1	19
50	Photodissolution of charcoal and fire-impacted soil as a potential source of dissolved black carbon in aquatic environments. Organic Geochemistry, 2017, 112, 16-21.	1.8	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. Geochimica Et Cosmochimica Acta, 2016, 187, 123-140.	3.9	77
53	DOM composition and transformation in boreal forest soils: The effects of temperature and organicâ€horizon decomposition state. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2727-2744.	3.0	77
54	Characterization of CHOS compounds in rainwater from continental and coastal storms by ultrahigh resolution mass spectrometry. Atmospheric Environment, 2015, 105, 162-168.	4.1	29

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55	Longitudinal shifts in dissolved organic matter chemogeography and chemodiversity within headwater streams: a river continuum reprise. Biogeochemistry, 2015, 124, 371-385.	3.5	60
56	Sunlight creates oxygenated species in water-soluble fractions of Deepwater horizon oil. Journal of Hazardous Materials, 2014, 280, 636-643.	12.4	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. Environmental Science & Technology, 2014, 48, 3760-3767.	10.0	35
58	Oil Spill Source Identification by Principal Component Analysis of Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectra. Analytical Chemistry, 2013, 85, 9064-9069.	6.5	51
59	Molecularâ€level characterization of reactive and refractory dissolved natural organic nitrogen compounds by atmospheric pressure photoionization coupled to Fourier transform ion cyclotron resonance mass spectrometry. Rapid Communications in Mass Spectrometry, 2013, 27, 851-858.	1.5	44
60	Heavy Petroleum Composition. 5. Compositional and Structural Continuum of Petroleum Revealed. Energy & Fuels, 2013, 27, 1268-1276.	5.1	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. Atmospheric Chemistry and Physics, 2013, 13, 4829-4838.	4.9	44
62	Characterization of Pyrogenic Black Carbon by Desorption Atmospheric Pressure Photoionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2012, 84, 1281-1287.	6.5	80
63	Selective Ionization of Dissolved Organic Nitrogen by Positive Ion Atmospheric Pressure Photoionization Coupled with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2012, 84, 5085-5090.	6.5	31
64	Dissolved Organic Matter in Headwater Streams: Compositional Variability across Climatic Regions of North America. Geochimica Et Cosmochimica Acta, 2012, 94, 95-108.	3.9	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. Analytical and Bioanalytical Chemistry, 2012, 404, 447-457.	3.7	52
66	Influence of acidification on the optical properties and molecular composition of dissolved organic matter. Analytica Chimica Acta, 2011, 706, 261-267.	5.4	39
67	Characterization of dissolved organic matter across the Subtropical Convergence off the South Island, New Zealand. Marine Chemistry, 2011, 123, 99-110.	2.3	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 planktonâ€derived dissolved organic matter in permeable coastal sediments. Limnology and Oceanography, 2010, 55, 857-871.	3.1	32
70	Decomposition of plankton-derived dissolved organic matter in permeable coastal sediments. Limnology and Oceanography, 2010, 55, 857-871.	3.1	28
71	Photochemically Induced Changes in Dissolved Organic Matter Identified by Ultrahigh Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Environmental Science & Technology, 2009, 43, 698-703.	10.0	233