

# Alex T Chow

## List of Publications by Year in descending order

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Version: 2024-02-01

90  
papers

3,143  
citations

145106

33  
h-index

198040

52  
g-index

92  
all docs

92  
docs citations

92  
times ranked

4123  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical characterization of dissolved organic matter as disinfection byproduct precursors by UV/fluorescence and ESI FT-ICR MS after smoldering combustion of leaf needles and woody trunks of pine ( <i>Pinus jeffreyi</i> ). <i>Water Research</i> , 2022, 209, 117962.	5.3	9
2	Effects of <i>Vallisneria natans</i> on H <sub>2</sub> S and S <sub>2</sub> ˆ releases in black-odorous waterbody under additional nitrate: Comprehensive performance and microbial community structure. <i>Journal of Environmental Management</i> , 2022, 316, 115226.	3.8	8
3	Characterization of Dissolved Organic Matter from Wildfire-induced <i>Microcystis aeruginosa</i> Blooms controlled by Copper Sulfate as Disinfection Byproduct Precursors Using APPI(-) and ESI(-) FT-ICR MS. <i>Water Research</i> , 2021, 189, 116640.	5.3	23
4	Increased Organohalogen Diversity after Disinfection of Water from a Prescribed Burned Watershed. <i>ACS ES&amp;T Water</i> , 2021, 1, 1274-1282.	2.3	3
5	Microplastics interaction with terrestrial plants and their impacts on agriculture. <i>Journal of Environmental Quality</i> , 2021, 50, 1024-1041.	1.0	43
6	Natural organic matter under human-influenced environments: Implication in future environmental quality research. <i>Journal of Environmental Quality</i> , 2021, 50, 1347-1350.	1.0	3
7	Formation of assimilable organic carbon (AOC) during drinking water disinfection: A microbiological prospect of disinfection byproducts. <i>Environment International</i> , 2020, 135, 105389.	4.8	33
8	Hurricane resulted in releasing more nitrogenous than carbonaceous disinfection byproduct precursors in coastal watersheds. <i>Science of the Total Environment</i> , 2020, 705, 135785.	3.9	15
9	Effect of prescribed fires on the export of dissolved organic matter, precursors of disinfection by-products, and water treatability. <i>Water Research</i> , 2020, 187, 116385.	5.3	7
10	Molecular dynamics of foliar litter and dissolved organic matter during the decomposition process. <i>Biogeochemistry</i> , 2020, 150, 17-30.	1.7	8
11	Characteristics of soil organic matter 14 years after a wildfire: A pyrolysis-gas-chromatography mass spectrometry (Py-GC-MS) study. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 152, 104922.	2.6	8
12	Soil Organic Carbon Signature under Impervious Surfaces. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1785-1792.	1.2	12
13	Concentration and isotopic composition of mercury in a blackwater river affected by extreme flooding events. <i>Limnology and Oceanography</i> , 2020, 65, 2158-2169.	1.6	16
14	Dynamics of dissolved organic matter and disinfection byproduct precursors along a low elevation gradient in woody wetlands - an implication of hydrologic impacts of climate change on source water quality. <i>Water Research</i> , 2020, 181, 115908.	5.3	19
15	Two years of post-wildfire impacts on dissolved organic matter, nitrogen, and precursors of disinfection by-products in California stream waters. <i>Water Research</i> , 2020, 181, 115891.	5.3	37
16	Cycling of methylmercury and other redox-sensitive compounds in the profundal zone of a hypereutrophic water supply reservoir. <i>Hydrobiologia</i> , 2020, 847, 4425-4446.	1.0	10
17	Forest composition, fuel loading, and soil chemistry resulting from 50 years of forest management and natural disturbance in two southeastern Coastal Plain watersheds, USA. <i>Forest Ecology and Management</i> , 2020, 473, 118337.	1.4	15
18	Low water treatability efficiency of wildfire-induced dissolved organic matter and disinfection by-product precursors. <i>Water Research</i> , 2020, 184, 116111.	5.3	13

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19	Pyrogenic carbon erosion after the Rim Fire, Yosemite National Park: The Role of Burn Severity and Slope. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 432-449.	1.3	25
20	Throughfall Dissolved Organic Matter as a Terrestrial Disinfection Byproduct Precursor. <i>ACS Earth and Space Chemistry</i> , 2019, 3, 1603-1613.	1.2	19
21	Control wildfire-induced <i>Microcystis aeruginosa</i> blooms by copper sulfate: Trade-offs between reducing algal organic matter and promoting disinfection byproduct formation. <i>Water Research</i> , 2019, 158, 227-236.	5.3	52
22	Lasting Effects of Wildfire on Disinfection Byproduct Formation in Forest Catchments. <i>Journal of Environmental Quality</i> , 2019, 48, 1826-1834.	1.0	19
23	The Legacy of a Severe Wildfire on Stream Nitrogen and Carbon in Headwater Catchments. <i>Ecosystems</i> , 2019, 22, 643-657.	1.6	73
24	Direct electricity production from subaqueous wetland sediments and banana peels using membrane-less microbial fuel cells. <i>Industrial Crops and Products</i> , 2019, 128, 70-79.	2.5	16
25	Long-term watershed management is an effective strategy to reduce organic matter export and disinfection by-product precursors in source water. <i>International Journal of Wildland Fire</i> , 2019, 28, 804.	1.0	4
26	Corrigendum to: Long-term watershed management is an effective strategy to reduce organic matter export and disinfection by-product precursors in source water. <i>International Journal of Wildland Fire</i> , 2019, 28, 822.	1.0	2
27	Optical in-situ sensors capture dissolved organic carbon (DOC) dynamics after prescribed fire in high-DOC forest watersheds. <i>International Journal of Wildland Fire</i> , 2019, 28, 761.	1.0	11
28	The Role of the Upper Tidal Estuary in Wetland Blue Carbon Storage and Flux. <i>Global Biogeochemical Cycles</i> , 2018, 32, 817-839.	1.9	91
29	Impacts of land-use on surface waters at the watershed scale in southeastern China: Insight from fluorescence excitation-emission matrix and PARAFAC. <i>Science of the Total Environment</i> , 2018, 627, 647-657.	3.9	33
30	Occurrence and distribution of microplastics at selected coastal sites along the southeastern United States. <i>Science of the Total Environment</i> , 2018, 613-614, 298-305.	3.9	161
31	Mineral Soil Chemical Properties as Influenced by Long-Term Use of Prescribed Fire with Differing Frequencies in a Southeastern Coastal Plain Pine Forest. <i>Forests</i> , 2018, 9, 739.	0.9	12
32	Thermocouple Probe Orientation Affects Prescribed Fire Behavior Estimation. <i>Journal of Environmental Quality</i> , 2018, 47, 170-176.	1.0	5
33	Origin, Reactivity, and Bioavailability of Mercury in Wildfire Ash. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14149-14157.	4.6	25
34	Wildfire Burn Intensity Affects the Quantity and Speciation of Polycyclic Aromatic Hydrocarbons in Soils. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 1262-1270.	1.2	39
35	Halocarbon Emissions from a Degraded Forested Wetland in Coastal South Carolina Impacted by Sea Level Rise. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 955-967.	1.2	16
36	Electricity generation from different wetlands: Mechanisms based on dissolved organic matters in membrane-less microbial fuel cells. <i>Chemical Engineering Journal</i> , 2018, 351, 1006-1012.	6.6	10

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37	Integration of an automated identification-quantification pipeline and statistical techniques for pyrolysis GC/MS tracking of the molecular fingerprints of natural organic matter. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 371-380.	2.6	11
38	Effects of salinity and wet-dry treatments on C and N dynamics in coastal-forested wetland soils: Implications of sea level rise. <i>Soil Biology and Biochemistry</i> , 2017, 112, 56-67.	4.2	58
39	Disinfection byproduct precursor dynamics and water treatability during an extreme flooding event in a coastal blackwater river in southeastern United States. <i>Chemosphere</i> , 2017, 188, 90-98.	4.2	22
40	Frequent Prescribed Burning as a Long-term Practice in Longleaf Pine Forests Does Not Affect Detrital Chemical Composition. <i>Journal of Environmental Quality</i> , 2017, 46, 1020-1027.	1.0	11
41	Extreme flooding mobilized dissolved organic matter from coastal forested wetlands. <i>Biogeochemistry</i> , 2017, 136, 293-309.	1.7	43
42	Dynamic Changes of Disinfection Byproduct Precursors following Exposures of <i>Microcystis aeruginosa</i> to Wildfire Ash Solutions. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8272-8282.	4.6	22
43	Growing Algae Alter Spectroscopic Characteristics and Chlorine Reactivity of Dissolved Organic Matter from Thermally-Altered Forest Litters. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7991-8000.	4.6	23
44	Haloform formation in coastal wetlands along a salinity gradient at South Carolina, United States. <i>Environmental Chemistry</i> , 2016, 13, 745.	0.7	12
45	Effects of bromide on inactivation efficacy and disinfection byproduct formation in photocatalytic inactivation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 324, 145-151.	2.0	5
46	Temporal variations of disinfection byproduct precursors in wildfire detritus. <i>Water Research</i> , 2016, 99, 66-73.	5.3	27
47	Water quality dynamics of ephemeral wetlands in the Piedmont ecoregion, South Carolina, USA. <i>Ecological Engineering</i> , 2016, 94, 555-563.	1.6	9
48	Prescribed Fire Alters Dissolved Organic Matter and Disinfection By-Product Precursors in Forested Watersheds - Part I. A Controlled Laboratory Study. <i>ACS Symposium Series</i> , 2015, , 271-292.	0.5	6
49	Prescribed Fire Alters Dissolved Organic Matter and Disinfection By-Product Precursor in Forested Watersheds - Part II. A Controlled Field Study. <i>ACS Symposium Series</i> , 2015, , 293-306.	0.5	4
50	Controlled Burning of Forest Detritus Altering Spectroscopic Characteristics and Chlorine Reactivity of Dissolved Organic Matter: Effects of Temperature and Oxygen Availability. <i>Environmental Science &amp; Technology</i> , 2015, 49, 14019-14027.	4.6	58
51	Water quality of small seasonal wetlands in the Piedmont ecoregion, South Carolina, USA: Effects of land use and hydrological connectivity. <i>Water Research</i> , 2015, 73, 98-108.	5.3	62
52	Wildfire Altering Terrestrial Precursors of Disinfection Byproducts in Forest Detritus. <i>Environmental Science &amp; Technology</i> , 2015, 49, 5921-5929.	4.6	90
53	The relationship between climate change concern and national wealth. <i>Climatic Change</i> , 2015, 131, 335-348.	1.7	53
54	Natural Fibers: A Missing Link to Chemical Pollution Dispersion in Aquatic Environments. <i>Environmental Science &amp; Technology</i> , 2015, 49, 12609-12610.	4.6	76

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55	Phenolic profile within the fine root branching orders of an evergreen species highlights a disconnect in root tissue quality predicted by elemental and molecular level carbon composition. <i>New Phytologist</i> , 2015, 206, 1261-1273.	3.5	41
56	Electrical energy production from forest detritus in a forested wetland using microbial fuel cells. <i>GCB Bioenergy</i> , 2015, 7, 244-252.	2.5	24
57	Trihalomethanes in marine mammal aquaria: Occurrences, sources, and health risks. <i>Water Research</i> , 2014, 59, 219-228.	5.3	11
58	Dual roles of dissolved organic matter in photo-irradiated Fe(III)-contained waters. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 290, 116-124.	2.0	7
59	Disinfection byproduct formation from chlorination of pure bacterial cells and pipeline biofilms. <i>Water Research</i> , 2013, 47, 2701-2709.	5.3	74
60	Dissolved organic matter and nutrient dynamics of a coastal freshwater forested wetland in Winyah Bay, South Carolina. <i>Biogeochemistry</i> , 2013, 112, 571-587.	1.7	47
61	Improved Fluorescence Excitation-Emission Matrix Regional Integration to Quantify Spectra for Fluorescent Dissolved Organic Matter. <i>Journal of Environmental Quality</i> , 2013, 42, 925-930.	1.0	132
62	Photochemical and Bacterial Transformations of Disinfection By-Product Precursors in Water. <i>Journal of Environmental Quality</i> , 2013, 42, 1589-1595.	1.0	15
63	Significance of Perceived Social Expectation and Implications to Conservation Education: Turtle Conservation as a Case Study. <i>Environmental Management</i> , 2012, 50, 900-913.	1.2	29
64	Technical Note: Reactivity of C1 and C2 organohalogen formation from plant litter to bacteria. <i>Biogeosciences</i> , 2012, 9, 3721-3727.	1.3	21
65	Project-based learning: a student investigation of the turtle trade in Guangzhou, People's Republic of China. <i>Journal of Biological Education</i> , 2011, 45, 68-76.	0.8	5
66	Reactivity of Litter Leachates from California Oak Woodlands in the Formation of Disinfection By-Products. <i>Journal of Environmental Quality</i> , 2011, 40, 1607-1616.	1.0	28
67	Simultaneous chromate reduction and azo dye decolourization by <i>Brevibacterium casei</i> : Azo dye as electron donor for chromate reduction. <i>Journal of Hazardous Materials</i> , 2010, 182, 792-800.	6.5	44
68	Litter Contributions to Dissolved Organic Matter and Disinfection Byproduct Precursors in California Oak Woodland Watersheds. <i>Journal of Environmental Quality</i> , 2009, 38, 2334-2343.	1.0	46
69	The chelonian trade in the largest pet market in China: scale, scope and impact on turtle conservation. <i>Oryx</i> , 2009, 43, 213.	0.5	65
70	Nitric oxide removal from flue gas with a biotrickling filter using <i>Pseudomonas putida</i> . <i>Journal of Hazardous Materials</i> , 2009, 164, 432-441.	6.5	49
71	Photocatalytic oxidation of polycyclic aromatic hydrocarbons: Intermediates identification and toxicity testing. <i>Journal of Hazardous Materials</i> , 2009, 168, 1192-1199.	6.5	120
72	Trihalomethane, haloacetonitrile, and chloral hydrate formation potentials of organic carbon fractions from sub-tropical forest soils. <i>Journal of Hazardous Materials</i> , 2009, 172, 880-887.	6.5	28

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73	Effect of constructed wetlands receiving agricultural return flows on disinfection byproduct precursors. <i>Water Research</i> , 2009, 43, 2750-2760.	5.3	30
74	Turbulence structures in non-uniform flows. <i>Advances in Water Resources</i> , 2008, 31, 1344-1351.	1.7	35
75	Restored Wetlands as a Source of Disinfection Byproduct Precursors. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5992-5997.	4.6	27
76	Impact of Simulated Solar Irradiation on Disinfection Byproduct Precursors. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5586-5593.	4.6	37
77	Relationships between specific ultraviolet absorbance and trihalomethane precursors of different carbon sources. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2008, 57, 471-480.	0.6	46
78	Watershed Sources of Disinfection Byproduct Precursors in the Sacramento and San Joaquin Rivers, California. <i>Environmental Science &amp; Technology</i> , 2007, 41, 7645-7652.	4.6	77
79	Size and XAD fractionations of trihalomethane precursors from soils. <i>Chemosphere</i> , 2006, 62, 1636-1646.	4.2	38
80	Disinfection byproduct reactivity of aquatic humic substances derived from soils. <i>Water Research</i> , 2006, 40, 1426-1430.	5.3	19
81	Trihalomethane Reactivity of Water- and Sodium Hydroxide-Extractable Organic Carbon Fractions from Peat Soils. <i>Journal of Environmental Quality</i> , 2006, 35, 114-121.	1.0	16
82	Temperature, water content and wet-dry cycle effects on DOC production and carbon mineralization in agricultural peat soils. <i>Soil Biology and Biochemistry</i> , 2006, 38, 477-488.	4.2	171
83	Comparison of DAX-8 and XAD-8 resins for isolating disinfection byproduct precursors. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2006, 55, 45-55.	0.6	22
84	Trihalomethane Formation Potential of Filter Isolates of Electrolyte-Extractable Soil Organic Carbon. <i>Journal of Environmental Quality</i> , 2005, 34, 1992-1997.	1.0	2
85	Physical and chemical fractionation of dissolved organic matter and trihalomethane precursors: A review. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2005, 54, 475-507.	0.6	91
86	Filter pore size selection for characterizing dissolved organic carbon and trihalomethane precursors from soils. <i>Water Research</i> , 2005, 39, 1255-1264.	5.3	36
87	Modeling Drainwater Selenium Removal in Wetlands. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2004, 130, 60-69.	0.6	4
88	Characterizing redox status of paddy soils with incorporated rice straw. <i>Geoderma</i> , 2003, 114, 333-353.	2.3	66
89	Production of dissolved organic carbon (DOC) and trihalomethane (THM) precursor from peat soils. <i>Water Research</i> , 2003, 37, 4475-4485.	5.3	87
90	Comparison of Redox Indicators in a Paddy Soil during Rice-Growing Season. <i>Soil Science Society of America Journal</i> , 2002, 66, 805-817.	1.2	66