

Amanda M Grannas

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,815
citations

304368

22
h-index

377514

34
g-index

35
all docs

35
docs citations

35
times ranked

2901
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of snow photochemistry: evidence, mechanisms and impacts. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4329-4373.	1.9	554
2	Direct molecular evidence for the degradation and mobility of black carbon in soils from ultrahigh-resolution mass spectral analysis of dissolved organic matter from a fire-impacted forest soil. <i>Organic Geochemistry</i> , 2006, 37, 501-510.	0.9	312
3	The transformation and mobility of charcoal in a fire-impacted watershed. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3432-3445.	1.6	238
4	The role of the global cryosphere in the fate of organic contaminants. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3271-3305.	1.9	128
5	Origin and Sources of Dissolved Organic Matter in Snow on the East Antarctic Ice Sheet. <i>Environmental Science & Technology</i> , 2014, 48, 6151-6159.	4.6	127
6	Photochemistry and nature of organic matter in Arctic and Antarctic snow. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	123
7	Molecular halogens before and during ozone depletion events in the Arctic at polar sunrise: concentrations and sources. <i>Atmospheric Environment</i> , 2002, 36, 2721-2731.	1.9	113
8	Organics in environmental ices: sources, chemistry, and impacts. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9653-9678.	1.9	110
9	Processes and properties of snow-air transfer in the high Arctic with application to interstitial ozone at Alert, Canada. <i>Atmospheric Environment</i> , 2002, 36, 2779-2787.	1.9	108
10	Atmospheric chemistry of formaldehyde in the Arctic troposphere at Polar Sunrise, and the influence of the snowpack. <i>Atmospheric Environment</i> , 2002, 36, 2553-2562.	1.9	103
11	A study of photochemical and physical processes affecting carbonyl compounds in the Arctic atmospheric boundary layer. <i>Atmospheric Environment</i> , 2002, 36, 2733-2742.	1.9	97
12	Snowpack processing of acetaldehyde and acetone in the Arctic atmospheric boundary layer. <i>Atmospheric Environment</i> , 2002, 36, 2743-2752.	1.9	90
13	New revelations on the nature of organic matter in ice cores. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	84
14	Distribution and trends of oxygenated hydrocarbons in the high Arctic derived from measurements in the atmospheric boundary layer and interstitial snow air during the ALERT2000 field campaign. <i>Atmospheric Environment</i> , 2002, 36, 2573-2583.	1.9	82
15	Enhanced Aqueous Photochemical Reaction Rates after Freezing. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11043-11049.	1.1	75
16	Molecular Insights on Dissolved Organic Matter Transformation by Supraglacial Microbial Communities. <i>Environmental Science & Technology</i> , 2017, 51, 4328-4337.	4.6	74
17	Acetaldehyde and acetone in the Arctic snowpack during the ALERT2000 campaign. Snowpack composition, incorporation processes and atmospheric impact. <i>Atmospheric Environment</i> , 2002, 36, 2609-2618.	1.9	60
18	Frost flowers growing in the Arctic ocean-atmosphere-sea ice-snow interface: 1. Chemical composition. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	53

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19	Carbonaceous species and humic like substances (HULIS) in Arctic snowpack during OASIS field campaign in Barrow. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	49
20	Role of Dissolved Organic Matter in Ice Photochemistry. <i>Environmental Science & Technology</i> , 2014, 48, 10725-10733.	4.6	41
21	Hydroxyl Radical Production from Irradiated Arctic Dissolved Organic Matter. <i>Biogeochemistry</i> , 2006, 78, 51-66.	1.7	34
22	Photochemical Production of Singlet Oxygen from Dissolved Organic Matter in Ice. <i>Environmental Science & Technology</i> , 2015, 49, 12808-12815.	4.6	34
23	Photochemical processing of aldrin and dieldrin in frozen aqueous solutions under arctic field conditions. <i>Environmental Pollution</i> , 2011, 159, 1076-1084.	3.7	23
24	Photo-biochemical transformation of dissolved organic matter on the surface of the coastal East Antarctic ice sheet. <i>Biogeochemistry</i> , 2018, 141, 229-247.	1.7	21
25	The role of dissolved organic matter in arctic surface waters in the photolysis of hexachlorobenzene and lindane. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	18
26	Surface-promoted hydrolysis of 2,4,6-trinitrotoluene and 2,4-dinitroanisole on pyrogenic carbonaceous matter. <i>Chemosphere</i> , 2018, 197, 603-610.	4.2	14
27	Metal sorption studies biased by filtration of insoluble metal oxides and hydroxides. <i>Science of the Total Environment</i> , 2019, 646, 1433-1439.	3.9	13
28	So These Numbers Really Mean Something? A Role Playing Scenario-Based Approach to the Undergraduate Instrumental Analysis Laboratory. <i>Journal of Chemical Education</i> , 2010, 87, 416-418.	1.1	10
29	A solid-phase chemical actinometer film for measurement of solar UV penetration into snowpack. <i>Cold Regions Science and Technology</i> , 2011, 66, 75-83.	1.6	10
30	Partial Decay of Thiamine Signal Transduction Pathway Alters Growth Properties of <i>Candida glabrata</i> . <i>PLoS ONE</i> , 2016, 11, e0152042.	1.1	8
31	Triclosan export from low-volume sources in an urban to rural watershed. <i>Science of the Total Environment</i> , 2020, 712, 135380.	3.9	4
32	[3.3.1]PROPELLANE-2,8-DIONE. SYNTHESIS AND STRUCTURE. <i>Organic Preparations and Procedures International</i> , 1998, 30, 235-238.	0.6	2
33	Characterization of dissolved organic matter from a Greenland ice core by nanospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Journal of Glaciology</i> , 2013, 59, 225-232.	1.1	2
34	Photochemistry of Organic Pollutants in/on Snow and Ice. <i>From Pole To Pole</i> , 2016, , 41-58.	0.1	1
35	Organics in Snow and Ice: Don't Eat the Yellow Snow. , 2022, , 571-619.		0