

Cort Anastasio

List of Publications by Year in descending order

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83
papers

4,573
citations

87888

38
h-index

114465

63
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85
all docs

85
docs citations

85
times ranked

3554
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Yields of Hydroxyl Radical and Nitrogen Dioxide from the Photolysis of Nitrate on Ice. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9594-9602.	2.5	226
2	Free and combined amino compounds in atmospheric fine particles (PM2.5) and fog waters from Northern California. <i>Atmospheric Environment</i> , 2003, 37, 2247-2258.	4.1	218
3	Chemistry of fog waters in California's Central Valley: 1. In situ photoformation of hydroxyl radical and singlet molecular oxygen. <i>Atmospheric Environment</i> , 2001, 35, 1079-1089.	4.1	159
4	Formation of Hydroxyl Radical from the Photolysis of Frozen Hydrogen Peroxide. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6264-6271.	2.5	149
5	2-Nitrobenzaldehyde as a chemical actinometer for solution and ice photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 186-192.	3.9	138
6	Chemistry of fog waters in California's Central Valley—Part 3: concentrations and speciation of organic and inorganic nitrogen. <i>Atmospheric Environment</i> , 2001, 35, 5629-5643.	4.1	131
7	Aromatic Carbonyl Compounds as Aqueous-Phase Photochemical Sources of Hydrogen Peroxide in Acidic Sulfate Aerosols, Fogs, and Clouds. 1. Non-Phenolic Methoxybenzaldehydes and Methoxyacetophenones with Reductants (Phenols). <i>Environmental Science & Technology</i> , 1997, 31, 218-232.	10.0	130
8	Secondary Organic Aerosol Production from Aqueous Reactions of Atmospheric Phenols with an Organic Triplet Excited State. <i>Environmental Science & Technology</i> , 2014, 48, 1049-1057.	10.0	130
9	A General Scavenging Rate Constant for Reaction of Hydroxyl Radical with Organic Carbon in Atmospheric Waters. <i>Environmental Science & Technology</i> , 2013, 47, 8196-8203.	10.0	129
10	Water-soluble organic nitrogen in atmospheric fine particles (PM2.5) from northern California. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 3-1-AAC 3-9.	3.3	128
11	Chemistry of fog waters in California's Central Valley: 2. Photochemical transformations of amino acids and alkyl amines. <i>Atmospheric Environment</i> , 2001, 35, 1091-1104.	4.1	121
12	Hydrogen Peroxide Formation in a Surrogate Lung Fluid by Transition Metals and Quinones Present in Particulate Matter. <i>Environmental Science & Technology</i> , 2014, 48, 7010-7017.	10.0	121
13	Generation of hydroxyl radicals from dissolved transition metals in surrogate lung fluid solutions. <i>Atmospheric Environment</i> , 2008, 42, 4369-4379.	4.1	110
14	Impacts of antioxidants on hydroxyl radical production from individual and mixed transition metals in a surrogate lung fluid. <i>Atmospheric Environment</i> , 2011, 45, 7555-7562.	4.1	109
15	Quantum Yield of Nitrite from the Photolysis of Aqueous Nitrate above 300 nm. <i>Environmental Science & Technology</i> , 2017, 51, 4387-4395.	10.0	108
16	Aqueous phase photochemical formation of hydrogen peroxide in authentic cloud waters. <i>Journal of Geophysical Research</i> , 1994, 99, 8231.	3.3	107
17	Generation of Hydroxyl Radicals from Ambient Fine Particles in a Surrogate Lung Fluid Solution. <i>Environmental Science & Technology</i> , 2009, 43, 922-927.	10.0	94
18	Temperature and Wavelength Dependence of Nitrite Photolysis in Frozen and Aqueous Solutions. <i>Environmental Science & Technology</i> , 2007, 41, 3626-3632.	10.0	93

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19	Molecular transformations of phenolic SOA during photochemical aging in the aqueous phase: competition among oligomerization, functionalization, and fragmentation. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4511-4527.	4.9	92
20	Photochemistry of Nitrous Acid (HONO) and Nitrous Acidium Ion (H_2ONO^+) in Aqueous Solution and Ice. <i>Environmental Science & Technology</i> , 2009, 43, 1108-1114.	10.0	89
21	Rates of Hydroxyl Radical Production from Transition Metals and Quinones in a Surrogate Lung Fluid. <i>Environmental Science & Technology</i> , 2015, 49, 9317-9325.	10.0	89
22	Photochemistry of phenanthrene, pyrene, and fluoranthene in ice and snow. <i>Atmospheric Environment</i> , 2009, 43, 2252-2259.	4.1	83
23	Quantitative measurements of the generation of hydroxyl radicals by soot particles in a surrogate lung fluid. <i>Atmospheric Environment</i> , 2006, 40, 1043-1052.	4.1	74
24	Phenolic carbonyls undergo rapid aqueous photodegradation to form low-volatility, light-absorbing products. <i>Atmospheric Environment</i> , 2016, 126, 36-44.	4.1	72
25	Processing of atmospheric nitrogen by clouds above a forest environment. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	71
26	Formation and Evolution of aqSOA from Aqueous-Phase Reactions of Phenolic Carbonyls: Comparison between Ammonium Sulfate and Ammonium Nitrate Solutions. <i>Environmental Science & Technology</i> , 2018, 52, 9215-9224.	10.0	68
27	A comparison of hydroxyl radical and hydrogen peroxide generation in ambient particle extracts and laboratory metal solutions. <i>Atmospheric Environment</i> , 2012, 46, 665-668.	4.1	61
28	A bias in the "mass-normalized" DTT response " An effect of non-linear concentration-response curves for copper and manganese. <i>Atmospheric Environment</i> , 2016, 144, 325-334.	4.1	58
29	Photoformation of hydroxyl radical and hydrogen peroxide in aerosol particles from Alert, Nunavut: implications for aerosol and snowpack chemistry in the Arctic. <i>Atmospheric Environment</i> , 2004, 38, 1153-1166.	4.1	57
30	Conversion of Fogwater and Aerosol Organic Nitrogen to Ammonium, Nitrate, and NO _x during Exposure to Simulated Sunlight and Ozone. <i>Environmental Science & Technology</i> , 2003, 37, 3522-3530.	10.0	55
31	Photoformation of hydroxyl radical on snow grains at Summit, Greenland. <i>Atmospheric Environment</i> , 2007, 41, 5110-5121.	4.1	55
32	Aqueous benzene-diols react with an organic triplet excited state and hydroxyl radical to form secondary organic aerosol. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10227-10237.	2.8	55
33	Combustion-derived flame generated ultrafine soot generates reactive oxygen species and activates Nrf2 antioxidants differently in neonatal and adult rat lungs. <i>Particle and Fibre Toxicology</i> , 2013, 10, 34.	6.2	54
34	Sources and sinks of hydroxyl radical in sea-salt particles. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	49
35	Photooxidants from brown carbon and other chromophores in illuminated particle extracts. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6579-6594.	4.9	47
36	FT-IR quantification of the carbonyl functional group in aqueous-phase secondary organic aerosol from phenols. <i>Atmospheric Environment</i> , 2015, 100, 230-237.	4.1	45

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37	First Measurements of Organic Triplet Excited States in Atmospheric Waters. <i>Environmental Science & Technology</i> , 2018, 52, 5218-5226.	10.0	45
38	Light penetration in the snowpack at Summit, Greenland: Part 2 Nitrate photolysis. <i>Atmospheric Environment</i> , 2007, 41, 5091-5100.	4.1	44
39	Soluble, light-absorbing species in snow at Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	44
40	Chloride and bromide depletions in sea-salt particles over the northeastern Pacific Ocean. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	40
41	Aircraft Measurements of Nitrogen and Phosphorus in and around the Lake Tahoe Basin: Implications for Possible Sources of Atmospheric Pollutants to Lake Tahoe. <i>Environmental Science & Technology</i> , 2002, 36, 4981-4989.	10.0	39
42	Light penetration in the snowpack at Summit, Greenland: Part 1. <i>Atmospheric Environment</i> , 2007, 41, 5077-5090.	4.1	38
43	Photosensitized Reactions of a Phenolic Carbonyl from Wood Combustion in the Aqueous Phase: Chemical Evolution and Light Absorption Properties of AqSOA. <i>Environmental Science & Technology</i> , 2021, 55, 5199-5211.	10.0	36
44	Light absorption by soluble chemical species in Arctic and Antarctic snow. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	34
45	Secondary Organic Aerosol from Aqueous Reactions of Green Leaf Volatiles with Organic Triplet Excited States and Singlet Molecular Oxygen. <i>Environmental Science & Technology</i> , 2015, 49, 268-276.	10.0	33
46	Photodestruction of Dissolved Organic Nitrogen Species in Fog Waters. <i>Aerosol Science and Technology</i> , 2000, 32, 106-119.	3.1	32
47	Soluble chromophores in marine snow, seawater, sea ice and frost flowers near Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
48	Release of gaseous bromine from the photolysis of nitrate and hydrogen peroxide in simulated sea-salt solutions. <i>Atmospheric Environment</i> , 2007, 41, 543-553.	4.1	31
49	Measuring a 10,000-fold enhancement of singlet molecular oxygen ($^1O_2^*$) concentration on illuminated ice relative to the corresponding liquid solution. <i>Atmospheric Environment</i> , 2013, 75, 188-195.	4.1	29
50	Hydroperoxyl radical (HO_2^{\bullet}) oxidizes dibromide radical anion ($^{\bullet}Br_2^-$) to bromine (Br_2) in aqueous solution: Implications for the formation of Br_2 in the marine boundary layer. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	28
51	The specific surface area and chemical composition of diamond dust near Barrow, Alaska. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27
52	Aqueous oxidation of green leaf volatiles by hydroxyl radical as a source of SOA: Kinetics and SOA yields. <i>Atmospheric Environment</i> , 2014, 95, 105-112.	4.1	27
53	Direct visualization of solute locations in laboratory ice samples. <i>Cryosphere</i> , 2016, 10, 2057-2068.	3.9	27
54	Nitrate Photochemistry at the Air-Ice Interface and in Other Ice Reservoirs. <i>Environmental Science & Technology</i> , 2018, 52, 5710-5717.	10.0	26

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55	An overview of air-snow exchange at Summit, Greenland: Recent experiments and findings. <i>Atmospheric Environment</i> , 2007, 41, 4995-5006.	4.1	23
56	Determination of halogenated mono-alcohols and diols in water by gas chromatography with electron-capture detection. <i>Journal of Chromatography A</i> , 2000, 866, 65-77.	3.7	22
57	Role of Nitrite in the Photochemical Formation of Radicals in the Snow. <i>Environmental Science & Technology</i> , 2014, 48, 165-172.	10.0	20
58	Kinetics and Mass Yields of Aqueous Secondary Organic Aerosol from Highly Substituted Phenols Reacting with a Triplet Excited State. <i>Environmental Science & Technology</i> , 2021, 55, 5772-5781.	10.0	20
59	Physicochemical properties of iron oxide nanoparticles that contribute to cellular ROS-dependent signaling and acellular production of hydroxyl radical. <i>Free Radical Research</i> , 2016, 50, 1153-1164.	3.3	19
60	Quantum Yields of Nitrite (NO_2^{\bullet}) from the Photolysis of Nitrate (NO_3^{\bullet}) in Ice at 313 nm. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8474-8483.	2.5	19
61	Photodegradation Rate Constants for Anthracene and Pyrene Are Similar in/on Ice and in Aqueous Solution. <i>Environmental Science & Technology</i> , 2018, 52, 12225-12234.	10.0	18
62	Impact of the Versatile Aerosol Concentration Enrichment System (VACES) on Gas Phase Species. <i>Aerosol Science and Technology</i> , 2010, 44, 1113-1121.	3.1	17
63	Age-Specific Effects on Rat Lung Glutathione and Antioxidant Enzymes after Inhaling Ultrafine Soot. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 48, 114-124.	2.9	17
64	The photolysis of flash-frozen dilute hydrogen peroxide solutions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	16
65	Degradation of organic pollutants in/on snow and ice by singlet molecular oxygen ($^1\text{O}_2$) and an organic triplet excited state. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 748-756.	3.5	16
66	The effect of cations on NO_2 production from the photolysis of aqueous thin water films of nitrate salts. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 32211-32218.	2.8	16
67	Photon flux dependence on solute environment in water ices. <i>Environmental Chemistry</i> , 2016, 13, 682.	1.5	16
68	Aqueous reactions of organic triplet excited states with atmospheric alkenes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5021-5032.	4.9	16
69	Air-Water Partitioning of Biomass-Burning Phenols and the Effects of Temperature and Salinity. <i>Environmental Science & Technology</i> , 2020, 54, 3823-3830.	10.0	16
70	Using Singlet Molecular Oxygen to Probe the Solute and Temperature Dependence of Liquid-Like Regions in/on Ice. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6612-6621.	2.5	15
71	Photodecay of guaiacol is faster in ice, and even more rapid on ice, than in aqueous solution. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1666-1677.	3.5	14
72	Bathochromic Shift in the UV-Visible Absorption Spectra of Phenols at Ice Surfaces: Insights from First-Principles Calculations. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9288-9298.	2.5	14

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73	Aqueous-phase oxidation of green leaf volatiles by hydroxyl radical as a source of SOA: Product identification from methyl jasmonate and methyl salicylate oxidation. <i>Atmospheric Environment</i> , 2015, 102, 43-51.	4.1	11
74	Hydroxyl radical in/on illuminated polar snow: formation rates, lifetimes, and steady-state concentrations. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9579-9590.	4.9	9
75	Concentrations of a triplet excited state are enhanced in illuminated ice. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 12-21.	3.5	9
76	Lens-coupled liquid core waveguide for ultraviolet-visible absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2006, 77, 073103.	1.3	7
77	Quantum Yield for the Aqueous Photochemical Degradation of Chlorantraniliprole and Simulation of Its Environmental Fate in a Model California Rice Field. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 1929-1935.	4.3	7
78	Photochemistry in Terrestrial Ices. <i>Astrophysics and Space Science Library</i> , 2013, , 583-644.	2.7	7
79	Aqueous OH^\bullet Oxidation of Highly Substituted Phenols as a Source of Secondary Organic Aerosol. <i>Environmental Science & Technology</i> , 2022, 56, 9959-9967.	10.0	7
80	Enhanced photodegradation of dimethoxybenzene isomers in/on ice compared to in aqueous solution. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5943-5959.	4.9	5
81	Aqueous Photolysis of Benzobicyclon Hydrolysate. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 5462-5472.	5.2	4
82	Formation of hydrogen peroxide from illuminated polar snows and frozen solutions of model compounds. <i>Atmospheric Environment</i> , 2012, 55, 127-134.	4.1	2
83	Modeling the influence of photochemistry on hydrogen peroxide concentrations in an Arctic snowpack. <i>Geophysical Research Letters</i> , 2013, 40, 2694-2698.	4.0	2