

Amy P Sullivan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7249549/publications.pdf>

Version: 2024-02-01

97
papers

8,295
citations

50170

46
h-index

53109

85
g-index

116
all docs

116
docs citations

116
times ranked

6271
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of secondary organic aerosol formation in the anthropogenic-influenced southeastern United States. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	517
2	Levoglucosan stability in biomass burning particles exposed to hydroxyl radicals. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	406
3	Refinements to the particle-into-liquid sampler (PILS) for ground and airborne measurements of water soluble aerosol composition. <i>Atmospheric Environment</i> , 2003, 37, 1243-1259.	1.9	359
4	Variability in Nocturnal Nitrogen Oxide Processing and Its Role in Regional Air Quality. <i>Science</i> , 2006, 311, 67-70.	6.0	345
5	Emissions of trace gases and aerosols during the open combustion of biomass in the laboratory. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	336
6	Chemical and physical transformations of organic aerosol from the photo-oxidation of open biomass burning emissions in an environmental chamber. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7669-7686.	1.9	329
7	A review of the anthropogenic influence on biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 321-343.	1.9	297
8	A critical evaluation of proxy methods used to estimate the acidity of atmospheric particles. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2775-2790.	1.9	266
9	Sources of Bacteria in Outdoor Air across Cities in the Midwestern United States. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6350-6356.	1.4	237
10	A method for on-line measurement of water-soluble organic carbon in ambient aerosol particles: Results from an urban site. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	1.5	220
11	Source apportionment of fine organic aerosol in Mexico City during the MILAGRO experiment 2006. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1249-1259.	1.9	215
12	Chemical characteristics and light-absorbing property of water-soluble organic carbon in Beijing: Biomass burning contributions. <i>Atmospheric Environment</i> , 2015, 121, 4-12.	1.9	192
13	A method for smoke marker measurements and its potential application for determining the contribution of biomass burning from wildfires and prescribed fires to ambient PM _{2.5} organic carbon. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	186
14	Airborne measurements of carbonaceous aerosol soluble in water over northeastern United States: Method development and an investigation into water-soluble organic carbon sources. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	179
15	Fine particle pH and the partitioning of nitric acid during winter in the northeastern United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,355.	1.2	176
16	Sources of particulate matter in the northeastern United States in summer: 1. Direct emissions and secondary formation of organic matter in urban plumes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	173
17	Chemical Smoke Marker Emissions During Flaming and Smoldering Phases of Laboratory Open Burning of Wildland Fuels. <i>Aerosol Science and Technology</i> , 2010, 44, i-v.	1.5	156
18	Characterization of Water-Soluble Organic Carbon in Urban Atmospheric Aerosols Using Solid-State ¹³ C NMR Spectroscopy. <i>Environmental Science & Technology</i> , 2006, 40, 666-672.	4.6	147

#	ARTICLE	IF	CITATIONS
19	Investigation of molar volume and surfactant characteristics of water-soluble organic compounds in biomass burning aerosol. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 799-812.	1.9	136
20	Ice nuclei emissions from biomass burning. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	125
21	Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8110-8115.	3.3	118
22	Aerosol emissions from prescribed fires in the United States: A synthesis of laboratory and aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,826-11,849.	1.2	116
23	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3425-3442.	1.9	114
24	Important fossil source contribution to brown carbon in Beijing during winter. <i>Scientific Reports</i> , 2017, 7, 43182.	1.6	111
25	Water uptake and chemical composition of fresh aerosols generated in open burning of biomass. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5165-5178.	1.9	104
26	Analysis of urban gas phase ammonia measurements from the 2002 Atlanta Aerosol Nucleation and Real-Time Characterization Experiment (ANARChE). <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	95
27	Aerosol Liquid Water Driven by Anthropogenic Nitrate: Implications for Lifetimes of Water-Soluble Organic Gases and Potential for Secondary Organic Aerosol Formation. <i>Environmental Science & Technology</i> , 2014, 48, 11127-11136.	4.6	94
28	Characterization of aerosol composition, aerosol acidity, and organic acid partitioning at an agriculturally intensive rural southeastern US site. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11471-11491.	1.9	88
29	On the volatility and production mechanisms of newly formed nitrate and water soluble organic aerosol in Mexico City. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 3761-3768.	1.9	87
30	Particle characteristics following cloud-modified transport from Asia to North America. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	86
31	Residential Coal Combustion as a Source of Levoglucosan in China. <i>Environmental Science & Technology</i> , 2018, 52, 1665-1674.	4.6	83
32	Investigation of cloud condensation nuclei properties and droplet growth kinetics of the water-soluble aerosol fraction in Mexico City. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	80
33	Observations and analysis of organic aerosol evolution in some prescribed fire smoke plumes. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 6323-6335.	1.9	78
34	Characteristics of atmospheric ice nucleating particles associated with biomass burning in the US: Prescribed burns and wildfires. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10458-10470.	1.2	73
35	The impact of the 2016 Fort McMurray Horse River Wildfire on ambient air pollution levels in the Athabasca Oil Sands Region, Alberta, Canada. <i>Science of the Total Environment</i> , 2018, 618, 1665-1676.	3.9	72
36	Deposition of reactive nitrogen during the Rocky Mountain Airborne Nitrogen and Sulfur (RoMANS) study. <i>Environmental Pollution</i> , 2010, 158, 862-872.	3.7	71

#	ARTICLE	IF	CITATIONS
37	Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7771-7796.	1.2	71
38	Chemical characterization of the ambient organic aerosol soluble in water: 1. Isolation of hydrophobic and hydrophilic fractions with a XAD-8 resin. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	70
39	One year online measurements of water-soluble ions at the industrially polluted town of Nanjing, China: Sources, seasonal and diurnal variations. <i>Chemosphere</i> , 2016, 148, 526-536.	4.2	69
40	Oil and gas impacts on air quality in federal lands in the Bakken region: an overview of the Bakken Air Quality Study and first results. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1401-1416.	1.9	62
41	Roadside, Urban, and Rural Comparison of Primary and Secondary Organic Molecular Markers in Ambient PM _{2.5} . <i>Environmental Science & Technology</i> , 2009, 43, 4287-4293.	4.6	58
42	A Laboratory Assessment of 120 Air Pollutant Emissions from Biomass and Fossil Fuel Cookstoves. <i>Environmental Science & Technology</i> , 2019, 53, 7114-7125.	4.6	58
43	Volatile organic compound measurements at Trinidad Head, California, during ITCT 2K2: Analysis of sources, atmospheric composition, and aerosol residence times. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	56
44	Investigating a Liquid-Based Method for Online Organic Carbon Detection in Atmospheric Particles. <i>Aerosol Science and Technology</i> , 2007, 41, 1117-1127.	1.5	56
45	Chemical characterization of the ambient organic aerosol soluble in water: 2. Isolation of acid, neutral, and basic fractions by modified size-exclusion chromatography. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	55
46	Emissions of Trace Organic Gases From Western U.S. Wildfires Based on WEâ€CAN Aircraft Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033838.	1.2	54
47	No evidence for acid-catalyzed secondary organic aerosol formation in power plant plumes over metropolitan Atlanta, Georgia. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	53
48	Temporal and spatial variability of ammonia in urban and agricultural regions of northern Colorado, United States. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6197-6213.	1.9	53
49	Fine aerosol bulk composition measured on WP-3D research aircraft in vicinity of the Northeastern United States â€ results from NEAQS. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3231-3247.	1.9	49
50	Biomass burning as a potential source for atmospheric ice nuclei: Western wildfires and prescribed burns. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	49
51	Nitrogen Oxides Emissions, Chemistry, Deposition, and Export Over the Northeast United States During the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,368.	1.2	49
52	Estimating the air quality and health impacts of biomass burning in northern South America using a chemical transport model. <i>Science of the Total Environment</i> , 2020, 739, 139755.	3.9	49
53	Sources of particulate matter in the northeastern United States in summer: 2. Evolution of chemical and microphysical properties. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	48
54	Airborne characterization of smoke marker ratios from prescribed burning. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10535-10545.	1.9	47

#	ARTICLE	IF	CITATIONS
55	Optical closure experiments for biomass smoke aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9017-9026.	1.9	45
56	Determining contributions of biomass burning and other sources to fine particle contemporary carbon in the western United States. <i>Atmospheric Environment</i> , 2011, 45, 1986-1993.	1.9	45
57	Emissions of Reactive Nitrogen From Western U.S. Wildfires During Summer 2018. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD032657.	1.2	41
58	Evidence for ambient dark aqueous SOA formation in the Po Valley, Italy. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 8095-8108.	1.9	39
59	Enhanced concentrations of reactive nitrogen species in wildfire smoke. <i>Atmospheric Environment</i> , 2017, 148, 8-15.	1.9	38
60	Characterization of saccharides and associated usage in determining biogenic and biomass burning aerosols in atmospheric fine particulate matter in the North China Plain. <i>Science of the Total Environment</i> , 2019, 650, 2939-2950.	3.9	33
61	Aerosol and Cloud Experiments in the Eastern North Atlantic (ACE-ENA). <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E619-E641.	1.7	33
62	Organic aerosol emission ratios from the laboratory combustion of biomass fuels. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,850.	1.2	31
63	Volatile organic compounds and ozone in Rocky Mountain National Park during FRAPP. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 499-521.	1.9	31
64	Biomass Burning Markers and Residential Burning in the WINTER Aircraft Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1846-1861.	1.2	30
65	Low-Molecular-Weight Carboxylic Acids in the Southeastern U.S.: Formation, Partitioning, and Implications for Organic Aerosol Aging. <i>Environmental Science & Technology</i> , 2021, 55, 6688-6699.	4.6	30
66	Application of high-performance anion-exchange chromatography-pulsed amperometric detection for measuring carbohydrates in routine daily filter samples collected by a national network: 1. Determination of the impact of biomass burning in the upper Midwest. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	25
67	Molecular Characterization of Water-Soluble Brown Carbon Chromophores in Beijing, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032018.	1.2	25
68	Development of wildland fire particulate smoke marker to organic carbon emission ratios for the conterminous United States. <i>Atmospheric Environment</i> , 2011, 45, 395-403.	1.9	22
69	Wintertime Gas-Particle Partitioning and Speciation of Inorganic Chlorine in the Lower Troposphere Over the Northeast United States and Coastal Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,897.	1.2	21
70	Long-term brown carbon and smoke tracer observations in Bogotá, Colombia: association with medium-range transport of biomass burning plumes. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7459-7472.	1.9	21
71	Application of high-performance anion-exchange chromatography-pulsed amperometric detection for measuring carbohydrates in routine daily filter samples collected by a national network: 2. Examination of sugar alcohols/polyols, sugars, and anhydrosugars in the upper Midwest. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	20
72	Atmospheric concentrations and deposition of reactive nitrogen in Grand Teton National Park. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,875.	1.2	19

#	ARTICLE	IF	CITATIONS
73	Southwestern U.S. Biomass Burning Smoke Hygroscopicity: The Role of Plant Phenology, Chemical Composition, and Combustion Properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5416-5432.	1.2	19
74	Observations and Modeling of NO _x Photochemistry and Fate in Fresh Wildfire Plumes. <i>ACS Earth and Space Chemistry</i> , 2021, 5, 2652-2667.	1.2	17
75	Impact of Front Range sources on reactive nitrogen concentrations and deposition in Rocky Mountain National Park. <i>PeerJ</i> , 2018, 6, e4759.	0.9	17
76	Real-time measurements of gas-phase organic acids using SF ₆ ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 5087-5104.	1.2	16
77	Effects of Fuel Moisture Content on Emissions from a Rocket-Elbow Cookstove. <i>Environmental Science & Technology</i> , 2019, 53, 4648-4656.	4.6	14
78	Coupled Air Quality and Boundary-Layer Meteorology in Western U.S. Basins during Winter: Design and Rationale for a Comprehensive Study. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2012-E2033.	1.7	14
79	Vertical profiles of trace gas and aerosol properties over the eastern North Atlantic: variations with season and synoptic condition. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11079-11098.	1.9	14
80	Significant Contribution of Primary Sources to Water-Soluble Organic Carbon During Spring in Beijing, China. <i>Atmosphere</i> , 2020, 11, 395.	1.0	13
81	Chemical Composition and Emissions Factors for Cookstove Startup (Ignition) Materials. <i>Environmental Science & Technology</i> , 2018, 52, 9505-9513.	4.6	12
82	Empirical Insights Into the Fate of Ammonia in Western U.S. Wildfire Smoke Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033730.	1.2	12
83	Using High Time Resolution Aerosol and Number Size Distribution Measurements to Estimate Atmospheric Extinction. <i>Journal of the Air and Waste Management Association</i> , 2009, 59, 1049-1060.	0.9	11
84	Contribution of Biomass Burning to Carbonaceous Aerosols in Mexico City during May 2013. <i>Aerosol and Air Quality Research</i> , 2016, 16, 114-124.	0.9	11
85	Assessment of online water-soluble brown carbon measuring systems for aircraft sampling. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6357-6378.	1.2	8
86	Size-resolved, real-time measurement of water-insoluble aerosols in metropolitan Atlanta during the summer of 2004. <i>Atmospheric Environment</i> , 2007, 41, 519-531.	1.9	7
87	Evaluation of the Sequential Spot Sampler (S3) for time-resolved measurement of PM _{2.5} sulfate and nitrate through lab and field measurements. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 525-533.	1.2	7
88	A Quantitative Method to Measure and Speciate Amines in Ambient Aerosol Samples. <i>Atmosphere</i> , 2020, 11, 808.	1.0	7
89	The CU Airborne Solar Occultation Flux Instrument: Performance Evaluation during BB-FLUX. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 582-596.	1.2	7
90	Using Low-Cost Measurement Systems to Investigate Air Quality: A Case Study in Palapye, Botswana. <i>Atmosphere</i> , 2020, 11, 583.	1.0	5

#	ARTICLE	IF	CITATIONS
91	Assessment of Ambient Air Toxics and Wood Smoke Pollution among Communities in Sacramento County. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1080.	1.2	3
92	Formation and Evolution of Catechol-Derived SOA Mass, Composition, Volatility, and Light Absorption. <i>ACS Earth and Space Chemistry</i> , 0, , .	1.2	3
93	PM _{2.5} in Carlsbad Caverns National Park: Composition, sources, and visibility impacts. <i>Journal of the Air and Waste Management Association</i> , 2022, 72, 1201-1218.	0.9	3
94	Technical note: An improved approach to determining background aerosol concentrations with PLS sampling on aircraft. <i>Atmospheric Environment</i> , 2016, 136, 16-20.	1.9	2
95	Fine Aerosol Acidity and Water during Summer in the Eastern North Atlantic. <i>Atmosphere</i> , 2021, 12, 1040.	1.0	1
96	Understanding organic aerosols in Bogotá, Colombia: In-situ observations and regional-scale modeling. <i>Atmospheric Environment</i> , 2022, 284, 119161.	1.9	1
97	Observations of ice nuclei associated with biomass burning. , 2013, , .		0