

# Rebecca J Sheesley

## List of Publications by Year in descending order

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65  
papers

3,799  
citations

159585

30  
h-index

128289

60  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating the present-day chemical composition, seasonality and source regions of climate-relevant aerosols across the Arctic land surface. <i>Environmental Research Letters</i> , 2022, 17, 034032.	5.2	9
2	Equal abundance of summertime natural and wintertime anthropogenic Arctic organic aerosols. <i>Nature Geoscience</i> , 2022, 15, 196-202.	12.9	31
3	Contemporary sources dominate carbonaceous aerosol on the North Slope of Alaska. <i>Science of the Total Environment</i> , 2022, 831, 154641.	8.0	2
4	Traffic, transport, and vegetation drive VOC concentrations in a major urban area in Texas. <i>Science of the Total Environment</i> , 2022, 838, 155861.	8.0	5
5	Apportioned primary and secondary organic aerosol during pollution events of DISCOVER-AQ Houston. <i>Atmospheric Environment</i> , 2021, 244, 117954.	4.1	5
6	Hydroxymethanesulfonate (HMS) Formation during Summertime Fog in an Arctic Oil Field. <i>Environmental Science and Technology Letters</i> , 2021, 8, 511-518.	8.7	9
7	Assessing the atmospheric fate of pesticides used to control mosquito populations in Houston, TX. <i>Chemosphere</i> , 2021, 275, 129951.	8.2	2
8	Urban core-downwind differences and relationships related to ozone production in a major urban area in Texas. <i>Atmospheric Environment</i> , 2021, 262, 118624.	4.1	13
9	Diesel Soot and Amine-Containing Organic Sulfate Aerosols in an Arctic Oil Field. <i>Environmental Science &amp; Technology</i> , 2020, 54, 92-101.	10.0	7
10	Long-Term Trends for Marine Sulfur Aerosol in the Alaskan Arctic and Relationships With Temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033225.	3.3	13
11	Fine and Coarse Carbonaceous Aerosol in Houston, TX, during DISCOVER-AQ. <i>Atmosphere</i> , 2020, 11, 482.	2.3	5
12	Urban Trees Are Sinks for Soot: Elemental Carbon Accumulation by Two Widespread Oak Species. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10092-10101.	10.0	31
13	Annual variability of ice-nucleating particle concentrations at different Arctic locations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5293-5311.	4.9	86
14	Source apportionment of circum-Arctic atmospheric black carbon from isotopes and modeling. <i>Science Advances</i> , 2019, 5, eaau8052.	10.3	68
15	Source apportionment of fine particulate matter organic carbon in Shenzhen, China by chemical mass balance and radiocarbon methods. <i>Environmental Pollution</i> , 2018, 240, 34-43.	7.5	18
16	The impacts of regional shipping emissions on the chemical characteristics of coastal submicron aerosols near Houston, TX. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14217-14241.	4.9	16
17	Biomass and fossil fuel combustion contributions to elemental carbon across the San Francisco Bay Area. <i>Atmospheric Environment</i> , 2018, 195, 229-242.	4.1	12
18	Evaluation of ground-based black carbon measurements by filter-based photometers at two Arctic sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3544-3572.	3.3	51

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19	Carbon isotope-constrained seasonality of carbonaceous aerosol sources from an urban location (Kanpur) in the Indo-Gangetic Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4903-4923.	3.3	42
20	Spatial and Temporal Distributions of Organophosphate Ester Concentrations from Atmospheric Particulate Matter Samples Collected across Houston, TX. <i>Environmental Science &amp; Technology</i> , 2017, 51, 4239-4247.	10.0	47
21	Year-round optical properties and source characterization of Arctic organic carbon aerosols on the North Slope Alaska. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9319-9331.	3.3	20
22	Contributions of transported Prudhoe Bay oil field emissions to the aerosol population in UtqiaĀvik, Alaska. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10879-10892.	4.9	37
23	Constraints on primary and secondary particulate carbon sources using chemical tracer and $^{14}\text{C}$ methods during CalNex-Bakersfield. <i>Atmospheric Environment</i> , 2017, 166, 204-214.	4.1	5
24	Composition and Sources of Particulate Matter Measured near Houston, TX: Anthropogenic-Biogenic Interactions. <i>Atmosphere</i> , 2016, 7, 73.	2.3	15
25	Spatial and Temporal Distribution of Current-Use Pesticides in Atmospheric Particulate Matter in Houston, Texas. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016, 97, 786-792.	2.7	5
26	Dual carbon isotope characterization of total organic carbon in wintertime carbonaceous aerosols from northern India. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4797-4809.	3.3	26
27	Radiocarbon-based source apportionment of elemental carbon aerosols at two South Asian receptor observatories over a full annual cycle. <i>Environmental Research Letters</i> , 2015, 10, 064004.	5.2	42
28	Pressurized liquid extraction technique for the analysis of pesticides, PCBs, PBDEs, OPEs, PAHs, alkanes, hopanes, and steranes in atmospheric particulate matter. <i>Chemosphere</i> , 2015, 137, 33-44.	8.2	28
29	Development of an in situ derivatization technique for rapid analysis of levoglucosan and polar compounds in atmospheric organic aerosol. <i>Atmospheric Environment</i> , 2015, 123, 251-255.	4.1	11
30	Selective pressurized liquid extraction as a sample-preparation technique for persistent organic pollutants and contaminants of emerging concern. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 68, 119-132.	11.4	62
31	Source Contributions to Wintertime Elemental and Organic Carbon in the Western Arctic Based on Radiocarbon and Tracer Apportionment. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11631-11639.	10.0	46
32	Urban impacts on regional carbonaceous aerosols: Case study in central Texas. <i>Journal of the Air and Waste Management Association</i> , 2014, 64, 917-926.	1.9	14
33	Qualitative and quantitative assessment of unresolved complex mixture in PM <sub>2.5</sub> of Bakersfield, CA. <i>Atmospheric Environment</i> , 2014, 98, 368-375.	4.1	6
34	Diagnostic Air Quality Model Evaluation of Source-Specific Primary and Secondary Fine Particulate Carbon. <i>Environmental Science &amp; Technology</i> , 2014, 48, 464-473.	10.0	6
35	$^{13}\text{C}$ - and $^{14}\text{C}$ -based study of sources and atmospheric processing of water-soluble organic carbon (WSOC) in South Asian aerosols. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 614-626.	3.3	138
36	Year-round radiocarbon-based source apportionment of carbonaceous aerosols at two background sites in South Asia. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	43

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37	Secondary organic aerosol formation from fossil fuel sources contribute majority of summertime organic mass at Bakersfield. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
38	<sup>14</sup> C-Based source assessment of soot aerosols in Stockholm and the Swedish EMEP-Aspvreten regional background site. <i>Atmospheric Environment</i> , 2011, 45, 215-222.	4.1	17
39	Contributions of resuspended soil and road dust to organic carbon in fine particulate matter in the Midwestern US. <i>Atmospheric Environment</i> , 2011, 45, 514-518.	4.1	19
40	Source characterization of organic aerosols using Monte Carlo source apportionment of PAHs at two South Asian receptor sites. <i>Atmospheric Environment</i> , 2011, 45, 3874-3881.	4.1	26
41	Personal exposures to traffic-related particle pollution among children with asthma in the South Bronx, NY. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2010, 20, 446-456.	3.9	48
42	Assessing the Impact of Industrial Source Emissions on Atmospheric Carbonaceous Aerosol Concentrations Using Routine Monitoring Networks. <i>Journal of the Air and Waste Management Association</i> , 2010, 60, 149-155.	1.9	3
43	Temporal Trends in Motor Vehicle and Secondary Organic Tracers Using in Situ Methylation Thermal Desorption GCMS. <i>Environmental Science &amp; Technology</i> , 2010, 44, 9398-9404.	10.0	22
44	Natural Abundance <sup>13</sup> C and <sup>14</sup> C Analysis of Water-Soluble Organic Carbon in Atmospheric Aerosols. <i>Analytical Chemistry</i> , 2010, 82, 7973-7978.	6.5	46
45	Brown Clouds over South Asia: Biomass or Fossil Fuel Combustion?. <i>Science</i> , 2009, 323, 495-498.	12.6	606
46	Source apportionment of primary and secondary organic aerosols using positive matrix factorization (PMF) of molecular markers. <i>Atmospheric Environment</i> , 2009, 43, 5567-5574.	4.1	97
47	Investigating the chemical nature of humic-like substances (HULIS) in North American atmospheric aerosols by liquid chromatography tandem mass spectrometry. <i>Atmospheric Environment</i> , 2009, 43, 4205-4213.	4.1	112
48	Sensitivity of a molecular marker based positive matrix factorization model to the number of receptor observations. <i>Atmospheric Environment</i> , 2009, 43, 4951-4958.	4.1	40
49	Tracking personal exposure to particulate diesel exhaust in a diesel freight terminal using organic tracer analysis. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2009, 19, 172-186.	3.9	16
50	Source apportionment of elevated wintertime PAHs by compound-specific radiocarbon analysis. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 3347-3356.	4.9	45
51	Assessment of diesel particulate matter exposure in the workplace: freight terminals. <i>Journal of Environmental Monitoring</i> , 2008, 10, 305.	2.1	16
52	Primary and Secondary Contributions to Ambient PM in the Midwestern United States. <i>Environmental Science &amp; Technology</i> , 2008, 42, 3303-3309.	10.0	140
53	Source apportionment of fine organic aerosol in Mexico City during the MILAGRO experiment 2006. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1249-1259.	4.9	215
54	Daily Variation in Particle-Phase Source Tracers in an Urban Atmosphere. <i>Aerosol Science and Technology</i> , 2007, 41, 981-993.	3.1	29

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55	Daily Variation in Chemical Characteristics of Urban Ultrafine Aerosols and Inference of Their Sources. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6000-6006.	10.0	106
56	Speciation of ambient fine organic carbon particles and source apportionment of PM <sub>2.5</sub> in Indian cities. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	163
57	Fine, ultrafine and nanoparticle trace element compositions near a major freeway with a high heavy-duty diesel fraction. <i>Atmospheric Environment</i> , 2007, 41, 5684-5696.	4.1	132
58	Roadside measurements of size-segregated particulate organic compounds near gasoline and diesel-dominated freeways in Los Angeles, CA. <i>Atmospheric Environment</i> , 2007, 41, 4653-4671.	4.1	90
59	Sensitivity of molecular marker-based CMB models to biomass burning source profiles. <i>Atmospheric Environment</i> , 2007, 41, 9050-9063.	4.1	99
60	Characterization of Aircraft Deicer and Anti-Icer Components and Toxicity in Airport Snowbanks and Snowmelt Runoff. <i>Environmental Science &amp; Technology</i> , 2006, 40, 3195-3202.	10.0	53
61	Seasonal and Spatial Relationship of Chemistry and Toxicity in Atmospheric Particulate Matter Using Aquatic Bioassays. <i>Environmental Science &amp; Technology</i> , 2005, 39, 999-1010.	10.0	18
62	Gaseous and Particulate Emissions from Prescribed Burning in Georgia. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9049-9056.	10.0	207
63	TOXICITY OF AMBIENT ATMOSPHERIC PARTICULATE MATTER FROM THE LAKE MICHIGAN (USA) AIRSHED TO AQUATIC ORGANISMS. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 133.	4.3	18
64	Trends in Secondary Organic Aerosol at a Remote Site in Michigan's Upper Peninsula. <i>Environmental Science &amp; Technology</i> , 2004, 38, 6491-6500.	10.0	119
65	Characterization of organic aerosols emitted from the combustion of biomass indigenous to South Asia. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	237