

Russell S Surasky

List of Publications by Year in descending order

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85
papers

6,173
citations

94433

37
h-index

71685

76
g-index

86
all docs

86
docs citations

86
times ranked

4932
citing authors

#	ARTICLE	IF	CITATIONS
1	Ozone destruction and photochemical reactions at polar sunrise in the lower Arctic atmosphere. <i>Nature</i> , 1988, 334, 138-141.	27.8	996
2	Methane emissions estimate from airborne measurements over a western United States natural gas field. <i>Geophysical Research Letters</i> , 2013, 40, 4393-4397.	4.0	414
3	Climate Assessment for 1999. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, s1-s50.	3.3	320
4	Atmospheric Ice Nuclei from Decomposing Vegetation. <i>Nature</i> , 1972, 236, 163-165.	27.8	261
5	A new look at methane and nonmethane hydrocarbon emissions from oil and natural gas operations in the Colorado Denverâ€¦Julesburg Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6836-6852.	3.3	257
6	Biogenic Ice Nuclei: Part I. Terrestrial and Marine Sources. <i>Journals of the Atmospheric Sciences</i> , 1976, 33, 1554-1564.	1.7	255
7	Low-Level Temperature Inversions of the Eurasian Arctic and Comparisons with Soviet Drifting Station Data. <i>Journal of Climate</i> , 1992, 5, 615-629.	3.2	201
8	Biogenic Ice Nuclei. Part II: Bacterial Sources. <i>Journals of the Atmospheric Sciences</i> , 1976, 33, 1565-1570.	1.7	199
9	Rapid photochemical production of ozone at high concentrations in a rural site during winter. <i>Nature Geoscience</i> , 2009, 2, 120-122.	12.9	175
10	An overview of regional experiments on biomass burning aerosols and related pollutants in Southeast Asia: From BASE-ASIA and the Dongsha Experiment to 7-SEAS. <i>Atmospheric Environment</i> , 2013, 78, 1-19.	4.1	166
11	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	4.9	154
12	Seasonal surface ozone and filterable bromine relationship in the high Arctic. <i>Atmospheric Environment</i> , 1989, 23, 2431-2441.	1.0	141
13	Long-range transport of anthropogenic aerosols to the National Oceanic and Atmospheric Administration baseline station at Mauna Loa Observatory, Hawaii. <i>Journal of Geophysical Research</i> , 1999, 104, 18521-18533.	3.3	123
14	Absence of evidence for greenhouse warming over the Arctic Ocean in the past 40 years. <i>Nature</i> , 1993, 361, 335-337.	27.8	122
15	Arctic haze and the Arctic Gas and Aerosol Sampling Program (AGASP). <i>Geophysical Research Letters</i> , 1984, 11, 361-364.	4.0	114
16	World-wide Source of Leaf-derived Freezing Nuclei. <i>Nature</i> , 1973, 246, 212-213.	27.8	105
17	Aerosol black carbon measurements at the South Pole: Initial results, 1986â€¦1987. <i>Geophysical Research Letters</i> , 1988, 15, 1193-1196.	4.0	102
18	Lidar detection of leads in Arctic sea ice. <i>Nature</i> , 1989, 339, 530-532.	27.8	92

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19	Application of Gauss's theorem to quantify localized surface emissions from airborne measurements of wind and trace gases. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3345-3358.	3.1	86
20	Improved Mechanistic Understanding of Natural Gas Methane Emissions from Spatially Resolved Aircraft Measurements. <i>Environmental Science & Technology</i> , 2017, 51, 7286-7294.	10.0	83
21	Bioaerosol field measurements: Challenges and perspectives in outdoor studies. <i>Aerosol Science and Technology</i> , 2020, 54, 520-546.	3.1	81
22	Decrease of summer tropospheric ozone concentrations in Antarctica. <i>Nature</i> , 1991, 351, 726-729.	27.8	80
23	Ice Nuclei in Seawater, Fog Water and Marine Air off the Coast of Nova Scotia: Summer 1975. <i>Journals of the Atmospheric Sciences</i> , 1977, 34, 1299-1305.	1.7	72
24	Tropospheric low-level temperature inversions in the Canadian Arctic. <i>Atmosphere - Ocean</i> , 1992, 30, 511-529.	1.6	68
25	El Chichon volcanic debris in an Arctic tropopause fold. <i>Geophysical Research Letters</i> , 1984, 11, 421-424.	4.0	65
26	Theoretical heights of buoyant convection above open leads in the winter Arctic pack ice cover. <i>Journal of Geophysical Research</i> , 1992, 97, 9411-9422.	3.3	65
27	Bromoalkane production by Antarctic ice algae. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1993, 45, 120-126.	1.6	58
28	Vertical and horizontal characteristics of Arctic haze during AGASP: Alaskan Arctic. <i>Geophysical Research Letters</i> , 1984, 11, 369-372.	4.0	57
29	A three-dimensional characterization of Arctic aerosols from airborne Sun photometer observations: PAMARC-MIP, April 2009. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
30	Electron microscope studies of Mt. Pinatubo aerosol layers over Laramie, Wyoming during summer 1991. <i>Geophysical Research Letters</i> , 1992, 19, 203-206.	4.0	56
31	Validation of 10-year SAO OMI Ozone Profile (PROFOZ) product using ozonesonde observations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2455-2475.	3.1	53
32	Association of an ice-nucleating pseudomonad with cultures of the marine dinoflagellate, <i>Heterocapsa niei</i> . <i>Journal of Marine Research</i> , 1985, 43, 257-265.	0.3	52
33	Airborne Quantification of Methane Emissions over the Four Corners Region. <i>Environmental Science & Technology</i> , 2017, 51, 5832-5837.	10.0	52
34	A major haze event near point barrow, Alaska: Analysis of probable source regions and transport pathways. <i>Atmospheric Environment</i> , 1989, 23, 2537-2549.	1.0	51
35	Three-wavelength nephelometer suitable for aircraft measurement of background aerosol scattering coefficient. <i>Atmospheric Environment Part A General Topics</i> , 1991, 25, 2267-2276.	1.3	50
36	Characteristics of atmospheric carbon monoxide at a high-mountain background station in East Asia. <i>Atmospheric Environment</i> , 2014, 89, 613-622.	4.1	47

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37	Anatomy of wintertime ozone associated with oil and natural gas extraction activity in Wyoming and Utah. <i>Elementa</i> , 2014, 2, .	3.2	45
38	In Situ Meteorological Sounding Archives for Arctic Studies. <i>Bulletin of the American Meteorological Society</i> , 1992, 73, 1824-1830.	3.3	40
39	Meteorology and haze structure during AGASP-II, Part 1: Alaskan Arctic flights, 2?10 April 1986. <i>Journal of Atmospheric Chemistry</i> , 1989, 9, 17-48.	3.2	35
40	Results from the 1995 Stratospheric Ozone Profile Intercomparison at Mauna Loa. <i>Journal of Geophysical Research</i> , 1999, 104, 30505-30514.	3.3	34
41	Tropospheric temperature trends in the Arctic: 1958â€“1986. <i>Journal of Geophysical Research</i> , 1993, 98, 12825-12838.	3.3	31
42	Chemical and meteorological influences on surface ozone destruction at Barrow, Alaska, during Spring 1989. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2851-2863.	1.3	30
43	Stable lead isotope ratios in Alaskan arctic aerosols. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2865-2871.	1.3	30
44	Airborne ice nuclei near an active volcano. <i>Nature</i> , 1976, 264, 535-536.	27.8	28
45	Aerosol distributions and an Arctic aerosol front during AGASP: Norwegian Arctic. <i>Geophysical Research Letters</i> , 1984, 11, 373-376.	4.0	28
46	Microanalysis of the aerosol collected over south-central New Mexico during the alive field experiment, Mayâ€“December 1989. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 1169-1183.	1.3	28
47	NOAA WP-3D instrumentation and flight operations on AGASP-II. <i>Journal of Atmospheric Chemistry</i> , 1989, 9, 3-16.	3.2	27
48	Intrusions of stratospheric air into Alaska's troposphere, March 1983. <i>Atmospheric Environment</i> , 1985, 19, 2153-2158.	1.0	26
49	Air mass characteristics in the vicinity of Barrow, Alaska, 9â€“19 March 1983. <i>Atmospheric Environment</i> , 1985, 19, 2127-2134.	1.0	25
50	New Ultraviolet Spectroradiometer measurements at Mauna Loa Observatory. <i>Geophysical Research Letters</i> , 1996, 23, 2121-2124.	4.0	25
51	Aerosol characteristics of Arctic haze sampled during AGASP-II. <i>Atmospheric Environment Part A General Topics</i> , 1990, 24, 937-949.	1.3	23
52	Coarse particle soil dust in Arctic aerosols, spring 1983. <i>Geophysical Research Letters</i> , 1984, 11, 995-998.	4.0	21
53	Aerosol and lidar measurements of hazes in mid-latitude and polar airmasses. <i>Atmospheric Environment</i> , 1989, 23, 2417-2430.	1.0	21
54	Observations of Arctic haze during polar flights from Alaska to Norway. <i>Atmospheric Environment</i> , 1985, 19, 2143-2151.	1.0	20

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55	Particulate sulfur and chlorine in Arctic aerosols, spring 1983. <i>Atmospheric Environment</i> , 1985, 19, 2167-2173.	1.0	19
56	Spring measurements of tropospheric bromine at Barrow, Alaska. <i>Geophysical Research Letters</i> , 1993, 20, 201-204.	4.0	19
57	In-flight intercomparisons of some aircraft meteorological and chemical measurement techniques. <i>Global Biogeochemical Cycles</i> , 1988, 2, 1-11.	4.9	17
58	Meteorology and haze structure during AGASP-II, Part 2: Canadian Arctic flights, 13-16 April 1986. <i>Journal of Atmospheric Chemistry</i> , 1989, 9, 49-70.	3.2	17
59	Radiosonde Observations from the Former Soviet "North Pole" Series of Drifting Ice Stations, 1954-90. <i>Bulletin of the American Meteorological Society</i> , 1999, 80, 2019-2026.	3.3	17
60	Carbon dioxide measurements in tropical East African biomes. <i>Journal of Geophysical Research</i> , 1981, 86, 5364-5372.	3.3	15
61	Airborne ice nucleus measurements around the Hawaiian Islands. <i>Journal of Geophysical Research</i> , 1982, 87, 8886-8890.	3.3	15
62	Composition of Br-containing aerosols and gases related to boundary layer ozone destruction in the arctic. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2839-2849.	1.3	15
63	Quantifying wintertime boundary layer ozone production from frequent profile measurements in the Uinta Basin, UT, oil and gas region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 11,038.	3.3	15
64	Arctic haze: Editorial. <i>Geophysical Research Letters</i> , 1984, 11, 359-359.	4.0	14
65	Electron microscope studies of aerosol layers with likely Kuwaiti origins over Laramie, Wyoming during spring 1991. <i>Geophysical Research Letters</i> , 1992, 19, 389-392.	4.0	14
66	Atmospheric ice nuclei: No detectable effects from a coal-fired powerplant plume. <i>Geophysical Research Letters</i> , 1976, 3, 657-660.	4.0	13
67	Ice nucleus characteristics of Mount St. Helens effluents. <i>Journal of Geophysical Research</i> , 1982, 87, 11109-11112.	3.3	13
68	The distribution and transport of pollution aerosols over the Norwegian Arctic on 31 March and 4 April 1983. <i>Atmospheric Environment</i> , 1985, 19, 2135-2142.	1.0	13
69	Arctic boundary layer ozone variations associated with nitrate, bromine, and meteorology: A case study. <i>Journal of Geophysical Research</i> , 1990, 95, 22433-22440.	3.3	12
70	Individual particle analyses of arctic aerosol samples collected during AGASP-III. <i>Atmospheric Environment Part A General Topics</i> , 1993, 27, 2825-2837.	1.3	12
71	Aerosol and ozone distributions over the western North Atlantic during WATOX-86. <i>Global Biogeochemical Cycles</i> , 1988, 2, 23-39.	4.9	10
72	Record low ozone at Mauna Loa Observatory during winter 1994-1995: A consequence of chemical and dynamical synergism?. <i>Geophysical Research Letters</i> , 1996, 23, 1533-1536.	4.0	10

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73	The National Oceanic and Atmospheric Administration Wp-3d Meteorological, Aerosol, and Gas Systems, and flight operations, on Watox-86. Global Biogeochemical Cycles, 1987, 1, 297-307.	4.9	8
74	Predicting atmospheric debris transport in real-time using a trajectory forecast model. Atmospheric Environment Part A General Topics, 1991, 25, 1705-1713.	1.3	8
75	Airborne measurements of aerosol optical properties over south-central new Mexico. Atmospheric Environment Part A General Topics, 1993, 27, 1363-1368.	1.3	8
76	CO2 Monitoring and Background Mole Fraction at Zhongshan Station, Antarctica. Atmosphere, 2014, 5, 686-698.	2.3	8
77	Investigating large methane enhancements in the U.S. San Juan Basin. Elementa, 2020, 8, .	3.2	8
78	Aerosol and ice nuclei measurements in the plume of the Homer City, PA., power plant. Geophysical Research Letters, 1979, 6, 371-374.	4.0	5
79	Symposium on the tropospheric chemistry of the Antarctic Region. Tellus, Series B: Chemical and Physical Meteorology, 1992, 44, 250-251.	1.6	4
80	Impact of equatorial and continental airflow on primary greenhouse gases in the northern South China Sea. Environmental Research Letters, 2015, 10, 065005.	5.2	4
81	Ice nucleus and aerosol measurements in the plume of the Johnstown, PA., steel mill. Geophysical Research Letters, 1980, 7, 397-400.	4.0	3
82	Size distribution of large aerosol particles during AGASP-II: Absence of st. augustine eruptive particles in the Alaskan Arctic. Atmospheric Environment, 1989, 23, 2495-2499.	1.0	3
83	Digital Phase Control of an Integrated Resonant Igniter Using a Soft Saturation Core for High Intensity Discharge Lamps. , 2009, , .		2
84	<title>Monitoring global atmospheric constituents capable of forcing climate change</title>. , 1999, , .		0
85	Pop Goes the Balloon!: What Happens when a Weather Balloon Reaches 30,000 m asl?. Bulletin of the American Meteorological Society, 2017, 98, 216-217.	3.3	0