

Sarah J Doherty

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

8,162
citations

159585

30
h-index

302126

39
g-index

42
all docs

42
docs citations

42
times ranked

7995
citing authors

#	ARTICLE	IF	CITATIONS
1	Bounding the role of black carbon in the climate system: A scientific assessment. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5380-5552.	3.3	4,319
2	Light-absorbing impurities in Arctic snow. Atmospheric Chemistry and Physics, 2010, 10, 11647-11680.	4.9	388
3	Size distributions and mixtures of dust and black carbon aerosol in Asian outflow: Physiochemistry and optical properties. Journal of Geophysical Research, 2004, 109, .	3.3	342
4	ACE-ASIA: Regional Climatic and Atmospheric Chemical Effects of Asian Dust and Pollution. Bulletin of the American Meteorological Society, 2004, 85, 367-380.	3.3	330
5	Sources of carbonaceous aerosols and deposited black carbon in the Arctic in winter-spring: implications for radiative forcing. Atmospheric Chemistry and Physics, 2011, 11, 12453-12473.	4.9	298
6	Light-absorbing particles in snow and ice: Measurement and modeling of climatic and hydrological impact. Advances in Atmospheric Sciences, 2015, 32, 64-91.	4.3	223
7	Variability of aerosol optical properties derived from in situ aircraft measurements during ACE-Asia. Journal of Geophysical Research, 2003, 108, ACE 15-1-ACE 15-19.	3.3	173
8	Observed vertical redistribution of black carbon and other insoluble light-absorbing particles in melting snow. Journal of Geophysical Research D: Atmospheres, 2013, 118, 5553-5569.	3.3	157
9	The darkening of the Greenland ice sheet: trends, drivers, and projections (1981-2100). Cryosphere, 2016, 10, 477-496.	3.9	152
10	Source Attribution of Black Carbon in Arctic Snow. Environmental Science & Technology, 2009, 43, 4016-4021.	10.0	142
11	Black carbon and other light-absorbing impurities in snow across Northern China. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1471-1492.	3.3	138
12	Sources of light-absorbing aerosol in arctic snow and their seasonal variation. Atmospheric Chemistry and Physics, 2010, 10, 10923-10938.	4.9	110
13	Assessing Single Particle Soot Photometer and Integrating Sphere/Integrating Sandwich Spectrophotometer measurement techniques for quantifying black carbon concentration in snow. Atmospheric Measurement Techniques, 2012, 5, 2581-2592.	3.1	96
14	Black carbon and other light-absorbing particles in snow of central North America. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,807.	3.3	83
15	Light absorption from particulate impurities in snow and ice determined by spectrophotometric analysis of filters. Applied Optics, 2011, 50, 2037.	2.1	82
16	In situ measurement of the aerosol extinction-to-backscatter ratio at a polluted continental site. Journal of Geophysical Research, 2000, 105, 26907-26915.	3.3	78
17	A global aerosol model forecast for the ACE-Asia field experiment. Journal of Geophysical Research, 2003, 108, .	3.3	78
18	A comparison and summary of aerosol optical properties as observed in situ from aircraft, ship, and land during ACE-Asia. Journal of Geophysical Research, 2005, 110, .	3.3	74

#	ARTICLE	IF	CITATIONS
19	The influence of snow grain size and impurities on the vertical profiles of actinic flux and associated NO _x emissions on the Antarctic and Greenland ice sheets. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3547-3567.	4.9	68
20	An intercomparison of lidar-derived aerosol optical properties with airborne measurements near Tokyo during ACE-Asia. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
21	Influence of relative humidity upon pollution and dust during ACE-Asia: Size distributions and implications for optical properties. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	59
22	Sea-Salt Size Distributions from Breaking Waves: Implications for Marine Aerosol Production and Optical Extinction Measurements during SEAS*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 1362-1374.	1.3	56
23	Clear-column closure studies of aerosols and water vapor aboard the NCAR C-130 during ACE-Asia, 2001. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	53
24	Measurement of the lidar ratio for atmospheric aerosols with a 180° backscatter nephelometer. <i>Applied Optics</i> , 1999, 38, 1823.	2.1	49
25	Lessons Learned from IPCC AR4: Scientific Developments Needed to Understand, Predict, and Respond to Climate Change. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 497-514.	3.3	47
26	Measurements of light-absorbing particles in snow across the Arctic, North America, and China: Effects on surface albedo. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 10,149.	3.3	47
27	Environmental snapshots from ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	42
28	Black carbon and other light-absorbing impurities in snow in the Chilean Andes. <i>Scientific Reports</i> , 2019, 9, 4008.	3.3	42
29	Measurements of black carbon aerosol washout ratio on Svalbard. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 891.	1.6	39
30	Arctic climate response to forcing from light-absorbing particles in snow and sea ice in CESM. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7903-7920.	4.9	37
31	Offsetting effects of aerosols on Arctic and global climate in the late 20th century. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3969-3975.	4.9	36
32	Causes of variability in light absorption by particles in snow at sites in Idaho and Utah. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4751-4768.	3.3	34
33	A comparison of similar aerosol measurements made on the NASA P3-B, DC-8, and NSF C-130 aircraft during TRACE-P and ACE-Asia. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	33
34	Gain of the AVHRR visible channel as tracked using bidirectional reflectance of Antarctic and Greenland snow. <i>International Journal of Remote Sensing</i> , 2001, 22, 1495-1520.	2.9	32
35	An intercomparison of aerosol light extinction and 180° backscatter as derived using in situ instruments and Raman lidar during the INDOEX field campaign. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 13-1.	3.3	31
36	A Study of the Extinction-to-Backscatter Ratio of Marine Aerosol during the Shoreline Environment Aerosol Study*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2003, 20, 1388-1402.	1.3	30

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37	Enhanced water vapor in Asian dust layer: Entrainment processes and implication for aerosol optical properties. Atmospheric Environment, 2006, 40, 2409-2421.	4.1	27
38	Model simulation and analysis of coarse and fine particle distributions during ACE-Asia. Journal of Geophysical Research, 2004, 109, .	3.3	9
39	Interannual variations of light-absorbing particles in snow on Arctic sea ice. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,391.	3.3	6
40	Correction to "An intercomparison of lidar-derived aerosol optical properties with airborne measurements near Tokyo during ACE-Asia", Journal of Geophysical Research, 2003, 108, .	3.3	0