Roland G Neuber

List of Publications by Year
in descending order

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73	1,893	218677	302126
papers	citations	26 h-index	39 g-index

82	82	82	1887
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Arctic Cloud Puzzle: Using ACLOUD/PASCAL Multiplatform Observations to Unravel the Role of Clouds and Aerosol Particles in Arctic Amplification. Bulletin of the American Meteorological Society, 2019, 100, 841-871.	3.3	145
2	Chemical depletion of Arctic ozone in winter 1999/2000. Journal of Geophysical Research, 2002, 107, SOL 18-1.	3.3	95
3	Review of ozone and temperature lidar validations performed within the framework of the Network for the Detection of Stratospheric Change. Journal of Environmental Monitoring, 2004, 6, 721.	2.1	80
4	Arctic smoke â€“ aerosol characteristics during a record smoke event in the European Arctic and its radiative impact. Atmospheric Chemistry and Physics, 2007, 7, 3035-3053.	4.9	65
5	Nonequilibrium coexistence of solid and liquid particles in Arctic stratospheric clouds. Journal of Geophysical Research, 2001, 106, 22991-23007.	3.3	63
6	Vertical ozone distribution in the marine atmosphere over the central Atlantic Ocean (56Â°S - 50Â°N). Journal of Geophysical Research, 1996, 101, 1387-1399.	3.3	60
7	Temperature histories in liquid and solid polar stratospheric cloud formation. Journal of Geophysical Research, 1997, 102, 23505-23517.	3.3	60
8	Aircraft lidar observations of an enhanced type Ia polar stratospheric clouds during APE-POLECAT. Journal of Geophysical Research, 1999, 104, 23961-23969.	3.3	59
9	Multiwavelength lidar measurements of stratospheric aerosols above Spitsbergen during winter 1992/93. Geophysical Research Letters, 1994, 21, 57-60.	4.0	57
10	A threeâ€dimensional characterization of Arctic aerosols from airborne Sun photometer observations: PAMâ€ARCMIP, April 2009. Journal of Geophysical Research, 2010, 115, .	3.3	57
11	Altitude and temperature of the mesopause at 69Â°N latitude in winter. Journal of Geophysical Research, 1988, 93, 11093-11101.	3.3	56
12	Arctic low-level boundary layer clouds: in situ measurements and simulations of mono- and bimodal supercooled droplet size distributions at the top layer of liquid phase clouds. Atmospheric Chemistry and Physics, 2015, 15, 617-631.	4.9	49
13	Arctic Study of Tropospheric Aerosol and Radiation (ASTAR) 2000: Arctic haze case study. Tellus, Series B: Chemical and Physical Meteorology, 2005, 57, 141-152.	1.6	43
14	A comprehensive in situ and remote sensing data set from the Arctic CLoud Observations Using airborne measurements during polar Day (ACLOUD) campaign. Earth System Science Data, 2019, 11, 1853-1881.	9.9	42
15	Large NAT particle formation by mother clouds: Analysis of SOLVE/THESEO-2000 observations. Geophysical Research Letters, 2002, 29, 52-1.	4.0	38
16	Aerosol optical properties in the Arctic: The role of aerosol chemistry and dust composition in a closure experiment between Lidar and tethered balloon vertical profiles. Science of the Total Environment, 2019, 686, 452-467.	8.0	38
17	Ground-based lidar measurements from Ny-Ã…lesund during ASTAR 2007. Atmospheric Chemistry and Physics, 2009, 9, 9059-9081.	4.9	37
18	AMALi â€“ the Airborne Mobile Aerosol Lidar for Arctic research. Atmospheric Chemistry and Physics, 2010, 10, 2947-2963.	4.9	36

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19	Tropospheric Comparisons of Vaisala Radiosondes and Balloon-Borne Frost-Point and Lyman-Î± Hygrometers during the LAUTLOS-WAVVAP Experiment. Journal of Atmospheric and Oceanic Technology, 2008, 25, 149-166.	1.3	35
20	Aerosol distribution around Svalbard during intense easterly winds. Atmospheric Chemistry and Physics, 2010, 10, 1473-1490.	4.9	34
21	Lidar measurements of the Kasatochi aerosol plume in August and September 2008 in Nyâ€Ã…lesund, Spitsbergen. Journal of Geophysical Research, 2010, 115, .	3.3	34
22	Size and Number Concentration of Liquid PSCs. Journal of the Meteorological Society of Japan, 1998, 76, 549-560.	1.8	32
23	Climatology of Arctic polar stratospheric clouds as measured by lidar in Ny-Ã…lesund, Spitsbergen (79Â°N, 12Â°E). Journal of Geophysical Research, 2006, 111, .	3.3	31
24	Optical thickness and effective radius of Arctic boundary-layer clouds retrieved from airborne nadir and imaging spectrometry. Atmospheric Measurement Techniques, 2013, 6, 1189-1200.	3.1	31
25	stratospheric trace gas concentrations in the Arctic polar night derived by FTIRâ€spectroscopy with the Moon as IR light source. Geophysical Research Letters, 1993, 20, 2059-2062.	4.0	29
26	Polar stratospheric cloud threshold temperatures in the 1995-1996 arctic vortex. Journal of Geophysical Research, 1997, 102, 28195-28202.	3.3	29
27	Temperature dependence of ternary solution particle volumes as observed by lidar in the Arctic stratosphere during winter 1992/1993. Journal of Geophysical Research, 1997, 102, 3603-3609.	3.3	29
28	Observation of an unusual mid-stratospheric aerosol layer in the Arctic: possible sources and implications for polar vortex dynamics. Annales Geophysicae, 2003, 21, 1057-1069.	1.6	28
29	Tropospheric water vapour soundings by lidar at high Arctic latitudes. Atmospheric Research, 2004, 71, 289-302.	4.1	27
30	Estimate of the Arctic Convective Boundary Layer Height from Lidar Observations: A Case Study. Advances in Meteorology, 2012, 2012, 1-9.	1.6	23
31	Latitudinal distribution of stratospheric aerosols during the EASOE winter 1991/92. Geophysical Research Letters, 1994, 21, 1283-1286.	4.0	22
32	Differences in Arctic and Antarctic PSC occurrence as observed by lidar in Ny-Ã…lesund (79Â° N, 12Â° E) and McMurdo (78Â° S, 167Â° E). Atmospheric Chemistry and Physics, 2005, 5, 2081-2090.	4.9	22
33	Remote sensing and in-situ measurements of tropospheric aerosol, a PAMARCMiP case study. Atmospheric Environment, 2012, 52, 56-66.	4.1	22
34	2014 iAREA campaign on aerosol in Spitsbergen â€“ Part 2: Optical properties from Raman-lidar and in-situ observations at Ny-Ã…lesund. Atmospheric Environment, 2016, 141, 1-19.	4.1	22
35	Microphysical and optical properties of precipitating drizzle and ice particles obtained from alternated lidar and in situ measurements. Annales Geophysicae, 2007, 25, 1487-1497.	1.6	21
36	Dual wavelength lidar observation of tropical high-altitude cirrus clouds during the ALBATROSS 1996 Campaign. Geophysical Research Letters, 1998, 25, 919-922.	4.0	18

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37	Study of Chemical and Optical Properties of Biomass Burning Aerosols during Long-Range Transport Events toward the Arctic in Summer 2017. Atmosphere, 2020, 11, 84.	2.3	18
38	The stratospheric ozone layer above Spitsbergen in winter 1989. Geophysical Research Letters, 1990, 17, 321-324.	4.0	17
39	Analysis of the ozone soundings made during the first quarter of 1989 in the Arctic. Journal of Geophysical Research, 1992, 97, 8083-8091.	3.3	17
40	Results of the 1998 Ny-Ã…lesund Ozone Monitoring Intercomparison. Journal of Geophysical Research, 1999, 104, 30515-30523.	3.3	17
41	Temporal development of Mt. Pinatubo aerosols as observed by lidar and sun photometer at Ny-Ã…lesund, Spitsbergen. Geophysical Research Letters, 1995, 22, 2497-2500.	4.0	16
42	Small-scale structure of thermodynamic phase in Arctic mixed-phase clouds observed by airborne remote sensing during a cold air outbreak and a warm air advection event. Atmospheric Chemistry and Physics, 2020, 20, 5487-5511.	4.9	16
43	Microphysical properties and radiative impact of an intense biomass burning aerosol event measured over Ny-Ã…lesund, Spitsbergen in July 2015. Tellus, Series B: Chemical and Physical Meteorology, 2022, 70, 1539618.	1.6	15
44	Arctic and Antarctic ozone layer observations: chemical and dynamical aspects of variability and long-term changes in the polar stratosphere. Polar Research, 2000, 19, 193-204.	1.6	14
45	Non-uniform PSC occurrence within the Arctic Polar Vortex. Geophysical Research Letters, 2001, 28, 4175-4178.	4.0	14
46	The Spring-Time Boundary Layer in the Central Arctic Observed during PAMARCMiP 2009. Atmosphere, 2012, 3, 320-351.	2.3	14
47	The stratospheric aerosol content above Spitzbergen during winter 1991/92. Geophysical Research Letters, 1994, 21, 1291-1294.	4.0	12
48	Validation of temperature measurements from the airborne Raman ozone temperature and aerosol lidar during SOLVE. Journal of Geophysical Research, 2002, 107, SOL 29-1.	3.3	12
49	The Near-Surface Small-Scale Spatial and Temporal Variability of Sensible and Latent Heat Exchange in the Svalbard Region: A Case Study. , 2012, 2012, 1-14.		11
50	Does the Intra-Arctic Modification of Long-Range Transported Aerosol Affect the Local Radiative Budget? (A Case Study). Remote Sensing, 2020, 12, 2112.	4.0	11
51	Occurrence of solid particles in the winter polar stratosphere above the nitric acid trihydrate coexistence temperature inferred from ground-based polarization lidar observations at Ny-Ã…lesund, Spitsbergen. Journal of Geophysical Research, 2001, 106, 2979-2992.	3.3	10
52	2014 iAREA campaign on aerosol in Spitsbergen â€“ Part 1: Study of physical and chemical properties. Atmospheric Environment, 2016, 140, 150-166.	4.1	10
53	Arctic and Antarctic ozone layer observations: chemical and dynamical aspects of variability and long-term changes in the polar stratosphere. Polar Research, 2000, 19, 193-204.	1.6	10
54	The evolution of Pinatubo aerosols in the Arctic stratosphere during 1994â€“2000. Atmospheric Research, 2004, 69, 199-215.	4.1	8

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55	Evolution of the Arctic stratospheric aerosol mixing ratio measured with balloon-borne aerosol backscatter sondes for years 1988-2000. Journal of Geophysical Research, 2001, 106, 20759-20766.	3.3	7
56	Lidar temperature measurements during the SOLVE campaign and the absence of polar stratospheric clouds from regions of very cold air. Journal of Geophysical Research, 2002, 107, SOL 40-1.	3.3	6
57	Application of the two-stream inversion algorithm for retrieval of extinction, backscatter, and lidar ratio for clean and polluted Arctic air. , 2005, , .		6
58	LIDAR Measurements of Stratospheric Aerosols in the Arctic. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1992, 96, 350-353.	0.9	5
59	Improved radio occultation sounding of the Arctic atmosphere using simulations with a high resolution atmospheric model. Physics and Chemistry of the Earth, 2004, 29, 277-286.	2.9	5
60	Polar Stratospheric Cloud Observations in the 2006/07 Arctic Winter by Using an Improved Micropulse Lidar. Journal of Atmospheric and Oceanic Technology, 2009, 26, 2136-2148.	1.3	5
61	Remote measurements of ozone concentration and aerosols in the Arctic stratosphere. Fresenius' Journal of Analytical Chemistry, 1991, 340, 650-653.	1.5	4
62	Analysis of multi-wavelength lidar data by inversion with mollifier method. Journal of Optics, 1998, 7, 827-836.	0.5	4
63	Inclined lidar observations of boundary layer aerosol particles above the Kongsfjord, Svalbard. Acta Geophysica, 2012, 60, 1287-1307.	2.0	4
64	The Sensible Heat Flux in the Course of the Year at Ny-Ã…lesund, Svalbard: Characteristics of Eddy Covariance Data and Corresponding Model Results. Advances in Meteorology, 2015, 2015, 1-16.	1.6	4
65	Comparative analysis of measurements of stratospheric aerosol by lidar and aerosol sonde above Ny-Ã…lesund in the winter of 1995 [Comparative analysis of lidar and OPC observations]. Polar Science, 2011, 5, 399-410.	1.2	3
66	Near-Range Receiver Unit of Next Generation PollyXTUsed with Koldeway Aerosol Raman Lidar in Arctic. EPJ Web of Conferences, 2016, 119, 06015.	0.3	3
67	The Mixing State of Polar Stratospheric Cloud Particles in "Sandwich Structure" Observed by Lidar 1. Determination of the Mixing State of PSC Particles. Journal of the Meteorological Society of Japan, 2003, 81, 747-757.	1.8	3
68	The evolution of polar stratospheric clouds above spitsbergen. Journal of Aerosol Science, 1997, 28, S423-S424.	3.8	2
69	Lidar Observations of Polar Stratospheric Clouds Above Spitsbergen. , 1997, , 509-512.		2
70	The red-sky enigma over Svalbard in December 2002. Annales Geophysicae, 2005, 23, 1593-1602.	1.6	0
71	Comparative Study of Stratospheric Aerosols and Ozone at Mid and High Latitudes During the Pinatubo Episode, 1991â€“1994. , 1997, , 489-492.		0
72	Aerosol Investigation During the Arctic Haze Season of 2018: Optical and Microphysical Properties. EPJ Web of Conferences, 2020, 237, 02002.	0.3	0

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73	Remote Sensing of Arctic Atmospheric Aerosols. Springer Polar Sciences, 2020, , 505-589.	0.1	0