

# Roland G Neuber

## List of Publications by Year in descending order

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73  
papers

1,893  
citations

218677

26  
h-index

302126

39  
g-index

82  
all docs

82  
docs citations

82  
times ranked

1887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microphysical properties and radiative impact of an intense biomass burning aerosol event measured over Ny-Å...lesund, Spitsbergen in July 2015. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1539618.	1.6	15
2	Does the Intra-Arctic Modification of Long-Range Transported Aerosol Affect the Local Radiative Budget? (A Case Study). <i>Remote Sensing</i> , 2020, 12, 2112.	4.0	11
3	Study of Chemical and Optical Properties of Biomass Burning Aerosols during Long-Range Transport Events toward the Arctic in Summer 2017. <i>Atmosphere</i> , 2020, 11, 84.	2.3	18
4	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. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5487-5511.	4.9	16
5	Aerosol Investigation During the Arctic Haze Season of 2018: Optical and Microphysical Properties. <i>EPJ Web of Conferences</i> , 2020, 237, 02002.	0.3	0
6	Remote Sensing of Arctic Atmospheric Aerosols. <i>Springer Polar Sciences</i> , 2020, , 505-589.	0.1	0
7	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. <i>Science of the Total Environment</i> , 2019, 686, 452-467.	8.0	38
8	The Arctic Cloud Puzzle: Using ALOUD/PASCAL Multiplatform Observations to Unravel the Role of Clouds and Aerosol Particles in Arctic Amplification. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 841-871.	3.3	145
9	A comprehensive in situ and remote sensing data set from the Arctic Cloud Observations Using airborne measurements during polar Day (ALOUD) campaign. <i>Earth System Science Data</i> , 2019, 11, 1853-1881.	9.9	42
10	Near-Range Receiver Unit of Next Generation PollyXT Used with Koldewey Aerosol Raman Lidar in Arctic. <i>EPJ Web of Conferences</i> , 2016, 119, 06015.	0.3	3
11	2014 iAREA campaign on aerosol in Spitsbergen – Part 1: Study of physical and chemical properties. <i>Atmospheric Environment</i> , 2016, 140, 150-166.	4.1	10
12	2014 iAREA campaign on aerosol in Spitsbergen – Part 2: Optical properties from Raman-lidar and in-situ observations at Ny-Å...lesund. <i>Atmospheric Environment</i> , 2016, 141, 1-19.	4.1	22
13	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. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 617-631.	4.9	49
14	The Sensible Heat Flux in the Course of the Year at Ny-Å...lesund, Svalbard: Characteristics of Eddy Covariance Data and Corresponding Model Results. <i>Advances in Meteorology</i> , 2015, 2015, 1-16.	1.6	4
15	Optical thickness and effective radius of Arctic boundary-layer clouds retrieved from airborne nadir and imaging spectrometry. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1189-1200.	3.1	31
16	Estimate of the Arctic Convective Boundary Layer Height from Lidar Observations: A Case Study. <i>Advances in Meteorology</i> , 2012, 2012, 1-9.	1.6	23
17	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
18	Inclined lidar observations of boundary layer aerosol particles above the Kongsfjord, Svalbard. <i>Acta Geophysica</i> , 2012, 60, 1287-1307.	2.0	4

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19	The Spring-Time Boundary Layer in the Central Arctic Observed during PAMARCMiP 2009. <i>Atmosphere</i> , 2012, 3, 320-351.	2.3	14
20	Remote sensing and in-situ measurements of tropospheric aerosol, a PAMARCMiP case study. <i>Atmospheric Environment</i> , 2012, 52, 56-66.	4.1	22
21	Comparative analysis of measurements of stratospheric aerosol by lidar and aerosol sonde above Ny-Ålesund in the winter of 1995 [Comparative analysis of lidar and OPC observations]. <i>Polar Science</i> , 2011, 5, 399-410.	1.2	3
22	Aerosol distribution around Svalbard during intense easterly winds. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1473-1490.	4.9	34
23	AMALi – the Airborne Mobile Aerosol Lidar for Arctic research. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2947-2963.	4.9	36
24	Lidar measurements of the Kasatochi aerosol plume in August and September 2008 in Ny-Ålesund, Spitsbergen. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	34
25	A three-dimensional characterization of Arctic aerosols from airborne Sun photometer observations: PAMARCMIP, April 2009. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	57
26	Polar Stratospheric Cloud Observations in the 2006/07 Arctic Winter by Using an Improved Micropulse Lidar. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 2136-2148.	1.3	5
27	Ground-based lidar measurements from Ny-Ålesund during ASTAR 2007. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9059-9081.	4.9	37
28	Tropospheric Comparisons of Vaisala Radiosondes and Balloon-Borne Frost-Point and Lyman- $\alpha$ Hygrometers during the LAUTLOS-WAVVAP Experiment. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 149-166.	1.3	35
29	Arctic smoke – aerosol characteristics during a record smoke event in the European Arctic and its radiative impact. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3035-3053.	4.9	65
30	Microphysical and optical properties of precipitating drizzle and ice particles obtained from alternated lidar and in situ measurements. <i>Annales Geophysicae</i> , 2007, 25, 1487-1497.	1.6	21
31	Climatology of Arctic polar stratospheric clouds as measured by lidar in Ny-Ålesund, Spitsbergen (79°N, 12°E). <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	31
32	Differences in Arctic and Antarctic PSC occurrence as observed by lidar in Ny-Ålesund (79° N, 12° E) and McMurdo (78° S, 167° E). <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 2081-2090.	4.9	22
33	The red-sky enigma over Svalbard in December 2002. <i>Annales Geophysicae</i> , 2005, 23, 1593-1602.	1.6	0
34	Arctic Study of Tropospheric Aerosol and Radiation (ASTAR) 2000: Arctic haze case study. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005, 57, 141-152.	1.6	43
35	Application of the two-stream inversion algorithm for retrieval of extinction, backscatter, and lidar ratio for clean and polluted Arctic air. , 2005, , .		6
36	Review of ozone and temperature lidar validations performed within the framework of the Network for the Detection of Stratospheric Change. <i>Journal of Environmental Monitoring</i> , 2004, 6, 721.	2.1	80

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37	Improved radio occultation sounding of the Arctic atmosphere using simulations with a high resolution atmospheric model. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 277-286.	2.9	5
38	The evolution of Pinatubo aerosols in the Arctic stratosphere during 1994â€“2000. <i>Atmospheric Research</i> , 2004, 69, 199-215.	4.1	8
39	Tropospheric water vapour soundings by lidar at high Arctic latitudes. <i>Atmospheric Research</i> , 2004, 71, 289-302.	4.1	27
40	The Mixing State of Polar Stratospheric Cloud Particles in "Sandwich Structure" Observed by Lidar 1. Determination of the Mixing State of PSC Particles. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 747-757.	1.8	3
41	Observation of an unusual mid-stratospheric aerosol layer in the Arctic: possible sources and implications for polar vortex dynamics. <i>Annales Geophysicae</i> , 2003, 21, 1057-1069.	1.6	28
42	Chemical depletion of Arctic ozone in winter 1999/2000. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 18-1.	3.3	95
43	Validation of temperature measurements from the airborne Raman ozone temperature and aerosol lidar during SOLVE. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 29-1.	3.3	12
44	Lidar temperature measurements during the SOLVE campaign and the absence of polar stratospheric clouds from regions of very cold air. <i>Journal of Geophysical Research</i> , 2002, 107, SOL 40-1.	3.3	6
45	Large NAT particle formation by mother clouds: Analysis of SOLVE/THESEO-2000 observations. <i>Geophysical Research Letters</i> , 2002, 29, 52-1.	4.0	38
46	Nonequilibrium coexistence of solid and liquid particles in Arctic stratospheric clouds. <i>Journal of Geophysical Research</i> , 2001, 106, 22991-23007.	3.3	63
47	Evolution of the Arctic stratospheric aerosol mixing ratio measured with balloon-borne aerosol backscatter sondes for years 1988-2000. <i>Journal of Geophysical Research</i> , 2001, 106, 20759-20766.	3.3	7
48	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-Å..lesund, Spitsbergen. <i>Journal of Geophysical Research</i> , 2001, 106, 2979-2992.	3.3	10
49	Non-uniform PSC occurrence within the Arctic Polar Vortex. <i>Geophysical Research Letters</i> , 2001, 28, 4175-4178.	4.0	14
50	Arctic and Antarctic ozone layer observations: chemical and dynamical aspects of variability and long-term changes in the polar stratosphere. <i>Polar Research</i> , 2000, 19, 193-204.	1.6	14
51	Arctic and Antarctic ozone layer observations: chemical and dynamical aspects of variability and long-term changes in the polar stratosphere. <i>Polar Research</i> , 2000, 19, 193-204.	1.6	10
52	Aircraft lidar observations of an enhanced type Ia polar stratospheric clouds during APE-POLECAT. <i>Journal of Geophysical Research</i> , 1999, 104, 23961-23969.	3.3	59
53	Results of the 1998 Ny-Å..lesund Ozone Monitoring Intercomparison. <i>Journal of Geophysical Research</i> , 1999, 104, 30515-30523.	3.3	17
54	Dual wavelength lidar observation of tropical high-altitude cirrus clouds during the ALBATROSS 1996 Campaign. <i>Geophysical Research Letters</i> , 1998, 25, 919-922.	4.0	18

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55	Analysis of multi-wavelength lidar data by inversion with mollifier method. Journal of Optics, 1998, 7, 827-836.	0.5	4
56	Size and Number Concentration of Liquid PSCs. Journal of the Meteorological Society of Japan, 1998, 76, 549-560.	1.8	32
57	Temperature histories in liquid and solid polar stratospheric cloud formation. Journal of Geophysical Research, 1997, 102, 23505-23517.	3.3	60
58	Polar stratospheric cloud threshold temperatures in the 1995-1996 arctic vortex. Journal of Geophysical Research, 1997, 102, 28195-28202.	3.3	29
59	The evolution of polar stratospheric clouds above spitsbergen. Journal of Aerosol Science, 1997, 28, S423-S424.	3.8	2
60	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
61	Lidar Observations of Polar Stratospheric Clouds Above Spitsbergen. , 1997, , 509-512.		2
62	Comparative Study of Stratospheric Aerosols and Ozone at Mid and High Latitudes During the Pinatubo Episode, 1991â€“1994. , 1997, , 489-492.		0
63	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
64	Temporal development of Mt. Pinatubo aerosols as observed by lidar and sun photometer at Ny-Å...lesund, Spitsbergen. Geophysical Research Letters, 1995, 22, 2497-2500.	4.0	16
65	Multiwavelength lidar measurements of stratospheric aerosols above Spitsbergen during winter 1992/93. Geophysical Research Letters, 1994, 21, 57-60.	4.0	57
66	Latitudinal distribution of stratospheric aerosols during the EASOE winter 1991/92. Geophysical Research Letters, 1994, 21, 1283-1286.	4.0	22
67	The stratospheric aerosol content above Spitzbergen during winter 1991/92. Geophysical Research Letters, 1994, 21, 1291-1294.	4.0	12
68	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
69	LIDAR Measurements of Stratospheric Aerosols in the Arctic. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1992, 96, 350-353.	0.9	5
70	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
71	Remote measurements of ozone concentration and aerosols in the Arctic stratosphere. Fresenius' Journal of Analytical Chemistry, 1991, 340, 650-653.	1.5	4
72	The stratospheric ozone layer above Spitsbergen in winter 1989. Geophysical Research Letters, 1990, 17, 321-324.	4.0	17

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73	Altitude and temperature of the mesopause at 69°N latitude in winter. Journal of Geophysical Research, 1988, 93, 11093-11101.	3.3	56