Radovan Krejci

List of Publications by Year
in descending order

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113	5,771	93792	116156
papers	citations	39 h-index	66 g-index

177	177	177	6347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-situ airborne observations of the microphysical properties of the Arctic tropospheric aerosol during late spring and summer. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 392.	0.8	38
2	Chemical properties of Arctic aerosol particles collected at the Zeppelin station during the aerosol transition period in May and June of 2004. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 405.	0.8	20
3	The radiative effect of an aged, internally mixed Arctic aerosol originating from lower-latitude biomass burning. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 677.	0.8	20
4	The seasonal characteristics of cloud condensation nuclei (CCN) in the arctic lower troposphere. Tellus, Series B: Chemical and Physical Meteorology, 2022, 70, 1513291.	0.8	24
5	Physical and chemical properties of aerosol particles and cloud residuals on Mt. Åreskutan in Central Sweden during summer 2014. Tellus, Series B: Chemical and Physical Meteorology, 2022, 72, 1776080.	0.8	5
6	The SALTENA Experiment: Comprehensive Observations of Aerosol Sources, Formation, and Processes in the South American Andes. Bulletin of the American Meteorological Society, 2022, 103, E212-E229.	1.7	9
7	Transport and chemistry of isoprene and its oxidation products in deep convective clouds. Tellus, Series B: Chemical and Physical Meteorology, 2022, 73, 1979856.	0.8	5
8	Tropical and Boreal Forest â€“ Atmosphere Interactions: A Review. Tellus, Series B: Chemical and Physical Meteorology, 2022, 74, 24.	0.8	27
9	Atmospheric composition in the European Arctic and 30Âyears of the Zeppelin Observatory, Ny-Ã…lesund. Atmospheric Chemistry and Physics, 2022, 22, 3321-3369.	1.9	24
10	Physical and Chemical Properties of Cloud Droplet Residuals and Aerosol Particles During the Arctic Ocean 2018 Expedition. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	12
11	Baltic Sea Spray Emissions: In Situ Eddy Covariance Fluxes vs. Simulated Tank Sea Spray. Atmosphere, 2021, 12, 274.	1.0	8
12	Differing Mechanisms of New Particle Formation at Two Arctic Sites. Geophysical Research Letters, 2021, 48, e2020GL091334.	1.5	70
13	The Atmospheric Aerosol over Western Greece-Six Years of Aerosol Observations at the Navarino Environmental Observatory. Atmosphere, 2021, 12, 445.	1.0	4
14	Aerosol dynamics and dispersion of radioactive particles. Atmospheric Chemistry and Physics, 2021, 21, 5173-5193.	1.9	5
15	A long-term study of cloud residuals from low-level Arctic clouds. Atmospheric Chemistry and Physics, 2021, 21, 8933-8959.	1.9	15
16	Large seasonal and interannual variations of biogenic sulfur compounds in the Arctic atmosphere (Svalbard; 78.9Â°â€‰N, 11.9Â°â€‰E). Atmospheric Chemistry and Physics, 2021, 21, 9761-9777.	1.9	11
17	Dimethyl Sulfideâ€Induced Increase in Cloud Condensation Nuclei in the Arctic Atmosphere. Global Biogeochemical Cycles, 2021, 35, e2021GB006969.	1.9	20
18	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer. Atmospheric Chemistry and Physics, 2021, 21, 12649-12663.	1.9	9

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19	Relationship between cloud condensation nuclei (CCN) concentration and aerosol optical depth in the Arctic region. Atmospheric Environment, 2021, , 118748.	1.9	3
20	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. Atmospheric Measurement Techniques, 2021, 14, 6723-6748.	1.2	19
21	Identifying source regions of air masses sampled at the tropical high-altitude site of Chacaltaya using WRF-FLEXPART and cluster analysis. Atmospheric Chemistry and Physics, 2021, 21, 16453-16477.	1.9	13
22	A Novel Framework to Study Trace Gas Transport in Deep Convective Clouds. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001931.	1.3	4
23	Individual Particle Characteristics, Optical Properties and Evolution of an Extreme Longâ€Range Transported Biomass Burning Event in the European Arctic (Nyâ€Ã…lesund, Svalbard Islands). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031535.	1.2	14
24	Atmospheric new particle formation characteristics in the Arctic as measured at Mount Zeppelin, Svalbard, from 2016 to 2018. Atmospheric Chemistry and Physics, 2020, 20, 13425-13441.	1.9	21
25	From a polar to a marine environment: has the changing Arctic led to a shift in aerosol light scattering properties?. Atmospheric Chemistry and Physics, 2020, 20, 13671-13686.	1.9	20
26	Megacity and local contributions to regional air pollution: an aircraft case study over London. Atmospheric Chemistry and Physics, 2020, 20, 7193-7216.	1.9	6
27	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. Atmospheric Measurement Techniques, 2020, 13, 4353-4392.	1.2	65
28	Simultaneous measurements of aerosol size distributions at three sites in the European high Arctic. Atmospheric Chemistry and Physics, 2019, 19, 7377-7395.	1.9	26
29	Influence of Biogenic Organics on the Chemical Composition of Arctic Aerosols. Global Biogeochemical Cycles, 2019, 33, 1238-1250.	1.9	32
30	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. Atmospheric Chemistry and Physics, 2019, 19, 2015-2061.	1.9	42
31	Biomass burning and urban emission impacts in the Andes Cordillera region based on in situ measurements from the Chacaltaya observatory, Bolivia (5240â€‰mâ€‰a.s.l.). Atmospheric Chemistry and Physics, 2019, 19, 14805-14824.	1.9	17
32	Black carbon emission and transport mechanisms to the free troposphere at the La Paz/El Alto (Bolivia) metropolitan area based on the Day of Census (2012). Atmospheric Environment, 2018, 194, 158-169.	1.9	24
33	Global analysis of continental boundary layer new particle formation based on long-term measurements. Atmospheric Chemistry and Physics, 2018, 18, 14737-14756.	1.9	113
34	Multi-year statistical and modeling analysis of submicrometer aerosol number size distributions at a rain forest site in Amazonia. Atmospheric Chemistry and Physics, 2018, 18, 10255-10274.	1.9	26
35	Ground-based observation of clusters and nucleation-mode particles in the Amazon. Atmospheric Chemistry and Physics, 2018, 18, 13245-13264.	1.9	26
36	Identification of topographic features influencing aerosol observations at high altitude stations. Atmospheric Chemistry and Physics, 2018, 18, 12289-12313.	1.9	31

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37	Comparison of PM2.5 chemical composition and sources at a rural background site in Central Europe between 1993/1994/1995 and 2009/2010: Effect of legislative regulations and economic transformation on the air quality. Environmental Pollution, 2018, 241, 841-851.	3.7	19
38	How much of the global aerosol optical depth is found in the boundary layer and free troposphere?. Atmospheric Chemistry and Physics, 2018, 18, 7709-7720.	1.9	40
39	Microphysical explanation of the RHâ€dependent water affinity of biogenic organic aerosol and its importance for climate. Geophysical Research Letters, 2017, 44, 5167-5177.	1.5	74
40	Arctic sea ice melt leads to atmospheric new particle formation. Scientific Reports, 2017, 7, 3318.	1.6	101
41	Pan-Arctic aerosol number size distributions: seasonality and transport patterns. Atmospheric Chemistry and Physics, 2017, 17, 8101-8128.	1.9	99
42	CCN production by new particle formation in the free troposphere. Atmospheric Chemistry and Physics, 2017, 17, 1529-1541.	1.9	52
43	A new aerosol wet removal scheme for the Lagrangian particle model FLEXPART v10. Geoscientific Model Development, 2017, 10, 1447-1466.	1.3	68
44	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. Nature, 2016, 539, 416-419.	13.7	112
45	Ubiquity and impact of thin mid-level clouds in the tropics. Nature Communications, 2016, 7, 12432.	5.8	21
46	Multi-seasonal ultrafine aerosol particle number concentration measurements at the Gruvebadet observatory, Ny-Ã…lesund, Svalbard Islands. Rendiconti Lincei, 2016, 27, 59-71.	1.0	14
47	Low hygroscopic scattering enhancement of boreal aerosol and the implications for a columnar optical closure study. Atmospheric Chemistry and Physics, 2015, 15, 7247-7267.	1.9	32
48	Aerosol transport over the Andes from the Amazon Basin to the remote Pacific Ocean: A multiyear CALIOP assessment. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8411-8425.	1.2	42
49	Seawater mesocosm experiments in the <scp>A</scp>rctic uncover differential transfer of marine bacteria to aerosols. Environmental Microbiology Reports, 2015, 7, 460-470.	1.0	32
50	Frequent nucleation events at the high altitude station of Chacaltaya (5240Âm a.s.l.), Bolivia. Atmospheric Environment, 2015, 102, 18-29.	1.9	59
51	Primary and secondary organics in the tropical Amazonian rainforest aerosols: chiral analysis of 2-methyltetraols. Environmental Sciences: Processes and Impacts, 2014, 16, 1413.	1.7	12
52	A review of sea-spray aerosol source functions using a large global set of sea salt aerosol concentration measurements. Atmospheric Chemistry and Physics, 2014, 14, 1277-1297.	1.9	192
53	Organosulfates and organic acids in Arctic aerosols: speciation, annual variation and concentration levels. Atmospheric Chemistry and Physics, 2014, 14, 7807-7823.	1.9	89
54	New aerosol particle formation in Amazonia. , 2013, , .		0

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55	New particle formation events observed at a high altitude site Pico Espejo, Venezuela. , 2013, , .		0
56	Atmospheric aerosol variability and properties in lowermost tropical free troposphere. , 2013, , .		0
57	Comparison between summertime and wintertime Arctic Ocean primary marine aerosol properties. Atmospheric Chemistry and Physics, 2013, 13, 4783-4799.	1.9	13
58	Long-term in situ observations of biomass burning aerosol at a high altitude station in Venezuela â€“ sources, impacts and interannual variability. Atmospheric Chemistry and Physics, 2013, 13, 9837-9853.	1.9	24
59	Arctic aerosol life cycle: linking aerosol size distributions observed between 2000 and 2010 with air mass transport and precipitation at Zeppelin station, Ny-Ã…lesund, Svalbard. Atmospheric Chemistry and Physics, 2013, 13, 3643-3660.	1.9	212
60	Airborne observations of aerosol microphysical properties and particle ageing processes in the troposphere above Europe. Atmospheric Chemistry and Physics, 2012, 12, 11533-11554.	1.9	13
61	Wintertime Arctic Ocean sea water properties and primary marine aerosol concentrations. Atmospheric Chemistry and Physics, 2012, 12, 10405-10421.	1.9	37
62	Artificial primary marine aerosol production: a laboratory study with varying water temperature, salinity, and succinic acid concentration. Atmospheric Chemistry and Physics, 2012, 12, 10709-10724.	1.9	51
63	Atmospheric chemistry in stereo: A new look at secondary organic aerosols from isoprene. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	49
64	Aerosol and bacterial emissions from Baltic Seawater. Atmospheric Research, 2011, 99, 1-14.	1.8	49
65	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
66	South East Pacific atmospheric composition and variability sampled along 20Â° S during VOCALS-REx. Atmospheric Chemistry and Physics, 2011, 11, 5237-5262.	1.9	119
67	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. Atmospheric Chemistry and Physics, 2011, 11, 1065-1082.	1.9	79
68	Analysis of number size distributions of tropical free tropospheric aerosol particles observed at Pico Espejo (4765 m a.s.l.), Venezuela. Atmospheric Chemistry and Physics, 2011, 11, 3319-3332.	1.9	30
69	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. Atmospheric Chemistry and Physics, 2011, 11, 627-654.	1.9	272
70	Major changes in forest carbon and nitrogen cycling caused by declining sulphur deposition. Global Change Biology, 2011, 17, 3115-3129.	4.2	119
71	New method for resolving the enantiomeric composition of 2-methyltetrols in atmospheric organic aerosols. Journal of Chromatography A, 2011, 1218, 9288-9294.	1.8	10
72	Emission and dry deposition of accumulation mode particles in the Amazon Basin. Atmospheric Chemistry and Physics, 2010, 10, 10237-10253.	1.9	24

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73	A comparison of dry and wet season aerosol number fluxes over the Amazon rain forest. Atmospheric Chemistry and Physics, 2010, 10, 3063-3079.	1.9	24
74	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe. Atmospheric Chemistry and Physics, 2010, 10, 8151-8171.	1.9	105
75	Black carbon measurements in the boundary layer over western and northern Europe. Atmospheric Chemistry and Physics, 2010, 10, 9393-9414.	1.9	155
76	Particle formation in the Arctic free troposphere during the ASTAR 2004 campaign: a case study on the influence of vertical motion on the binary homogeneous nucleation of H₂SO₄/H<sub>2</sub&am Atmospheric Chemistry and Physics, 2010, 10, 1105-1120.	1.9	8
77	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction. Atmospheric Chemistry and Physics, 2010, 10, 4065-4083.	1.9	184
78	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. Atmospheric Chemistry and Physics, 2010, 10, 4775-4793.	1.9	212
79	In situ laboratory sea spray production during the Marine Aerosol Production 2006 cruise on the northeastern Atlantic Ocean. Journal of Geophysical Research, 2010, 115, .	3.3	58
80	On small particles in the Arctic summer boundary layer: observations at two different heights near Ny-Ã…lesund, Svalbard. Tellus, Series B: Chemical and Physical Meteorology, 2009, 61, 473-482.	0.8	29
81	Aerosol number fluxes over the Amazon rain forest during the wet season. Atmospheric Chemistry and Physics, 2009, 9, 9381-9400.	1.9	36
82	On small particles in the Arctic summer boundary layer: observations at two different heights near Ny-Ã…lesund, Svalbard. Tellus, Series B: Chemical and Physical Meteorology, 2009, 61, .	0.8	2
83	Overview of the biosphere-aerosol-cloud-climate interactions (BACCI) studies. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 300-317.	0.8	12
84	Do organics contribute to small particle formation in the Amazonian upper troposphere?. Geophysical Research Letters, 2008, 35, .	1.5	36
85	Observational and modelling evidence of tropical deep convective clouds as a source of midâ€tropospheric accumulation mode aerosols. Geophysical Research Letters, 2008, 35, .	1.5	23
86	Changes in aerosol properties during spring-summer period in the Arctic troposphere. Atmospheric Chemistry and Physics, 2008, 8, 445-462.	1.9	86
87	Humidity observations in the Arctic troposphere over Ny-Ã…lesund, Svalbard based on 15 years of radiosonde data. Atmospheric Chemistry and Physics, 2007, 7, 2721-2732.	1.9	45
88	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.	1.9	65
89	Microphysical and chemical characteristics of cloud droplet residuals and interstitial particles in continental stratocumulus clouds. Atmospheric Research, 2007, 86, 225-240.	1.8	17
90	Explicit Simulation of Aerosol Physics in a Cloud-Resolving Model: Aerosol Transport and Processing in the Free Troposphere. Journals of the Atmospheric Sciences, 2006, 63, 682-696.	0.6	76

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91	Single particle analysis of ice crystal residuals observed in orographic wave clouds over Scandinavia during INTACC experiment. Atmospheric Chemistry and Physics, 2006, 6, 1977-1990.	1.9	62
92	Spatial and temporal distribution of atmospheric aerosols in the lowermost troposphere over the Amazonian tropical rainforest. Atmospheric Chemistry and Physics, 2005, 5, 1527-1543.	1.9	38
93	Single particle analysis of the accumulation mode aerosol over the northeast Amazonian tropical rain forest, Surinam, South America. Atmospheric Chemistry and Physics, 2005, 5, 3331-3344.	1.9	25
94	Thermal stability analysis of particles incorporated in cirrus crystals and of non-activated particles in between the cirrus crystals: comparing clean and polluted air masses. Atmospheric Chemistry and Physics, 2004, 4, 1343-1353.	1.9	10
95	Aerosol-cirrus interactions: a number based phenomenon at all?. Atmospheric Chemistry and Physics, 2004, 4, 293-305.	1.9	24
96	Evolution of aerosol properties over the rain forest in Surinam, South America, observed from aircraft during the LBA-CLAIRE 98 experiment. Journal of Geophysical Research, 2003, 108, .	3.3	42
97	Aircraft observations of the upper tropospheric fine particle aerosol in the Northern and Southern Hemispheres at midlatitudes. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	110
98	In-situ observations of aerosol particles remaining from evaporated cirrus crystals: Comparing clean and polluted air masses. Atmospheric Chemistry and Physics, 2003, 3, 1037-1049.	1.9	47
99	Cirrus cloud occurrence as function of ambient relative humidity: a comparison of observations obtained during the INCA experiment. Atmospheric Chemistry and Physics, 2003, 3, 1807-1816.	1.9	74
100	Application of the variability-size relationship to atmospheric aerosol studies: estimating aerosol lifetimes and ages. Atmospheric Chemistry and Physics, 2002, 2, 133-145.	1.9	127
101	Airborne observations of dry particle absorption and scattering properties over the northern Indian Ocean. Journal of Geophysical Research, 2002, 107, INX2 34-1.	3.3	12
102	Quantitative measurement of the microphysical and optical properties of cirrus clouds with four different in situ probes: Evidence of small ice crystals. Geophysical Research Letters, 2002, 29, XXX-XXX.	1.5	75
103	Vertical and horizontal distributions of the aerosol number concentration and size distribution over the northern Indian Ocean. Journal of Geophysical Research, 2001, 106, 28629-28641.	3.3	72
104	Detection of lightning-produced NO in the midlatitude upper troposphere during STREAM 1998. Journal of Geophysical Research, 2001, 106, 27777-27785.	3.3	19
105	Transport of biomass burning smoke to the upper troposphere by deep convection in the equatorial region. Geophysical Research Letters, 2001, 28, 951-954.	1.5	234
106	Sulfur isotope dynamics in two central european watersheds affected by high atmospheric deposition of SOx. Geochimica Et Cosmochimica Acta, 2000, 64, 367-383.	1.6	106
107	Sourceâ€“receptor relationships for heavy metals in the European atmosphere. Nuclear Instruments & Methods in Physics Research B, 1999, 150, 322-331.	0.6	6
108	Temporal trends of bulk precipitation and stream water chemistry (1977-1997) in a small forested area, KrusnÃ© hory, northern Bohemia, Czech Republic. Hydrological Processes, 1999, 13, 2721-2741.	1.1	18

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109	Quality assurance of environmental PIXE analysis in Prague. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 981-985.	0.6	3
110	Hygroscopic growth of aerosol particles in the marine boundary layer over the Pacific and Southern Oceans during the First Aerosol Characterization Experiment (ACE 1). Journal of Geophysical Research, 1998, 103, 16535-16545.	3.3	112
111	Source characterisation of the Central European atmospheric aerosol using multivariate statistical methods. Nuclear Instruments & Methods in Physics Research B, 1996, 109-110, 519-525.	0.6	38
112	Changes in hygroscopic growth of atmospheric submicrometer particles during air mass subsidence events in remote marine environments. , 1996, , 824-827.		2
113	Measurements of hygroscopic growth of atmospheric submicrometer particles during a transect of the Pacific Ocean. , 1996, , 897-900.		0