

Radovan Krejci

List of Publications by Year in descending order

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113
papers

5,771
citations

81900

39
h-index

102487

66
g-index

177
all docs

177
docs citations

177
times ranked

5706
citing authors

#	ARTICLE	IF	CITATIONS
1	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) – integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13061-13143.	4.9	278
2	The VAMOS Ocean-Cloud-Atmosphere-Land Study Regional Experiment (VOCALS-REx): goals, platforms, and field operations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 627-654.	4.9	272
3	Transport of biomass burning smoke to the upper troposphere by deep convection in the equatorial region. <i>Geophysical Research Letters</i> , 2001, 28, 951-954.	4.0	234
4	Explaining global surface aerosol number concentrations in terms of primary emissions and particle formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4775-4793.	4.9	212
5	Arctic aerosol life cycle: linking aerosol size distributions observed between 2000 and 2010 with air mass transport and precipitation at Zeppelin station, Ny-Ålesund, Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3643-3660.	4.9	212
6	A review of sea-spray aerosol source functions using a large global set of sea salt aerosol concentration measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1277-1297.	4.9	192
7	Airborne measurements of the spatial distribution of aerosol chemical composition across Europe and evolution of the organic fraction. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4065-4083.	4.9	184
8	Black carbon measurements in the boundary layer over western and northern Europe. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9393-9414.	4.9	155
9	Application of the variability-size relationship to atmospheric aerosol studies: estimating aerosol lifetimes and ages. <i>Atmospheric Chemistry and Physics</i> , 2002, 2, 133-145.	4.9	127
10	South East Pacific atmospheric composition and variability sampled along 20° S during VOCALS-REx. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 5237-5262.	4.9	119
11	Major changes in forest carbon and nitrogen cycling caused by declining sulphur deposition. <i>Global Change Biology</i> , 2011, 17, 3115-3129.	9.5	119
12	Global analysis of continental boundary layer new particle formation based on long-term measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14737-14756.	4.9	113
13	Hygroscopic growth of aerosol particles in the marine boundary layer over the Pacific and Southern Oceans during the First Aerosol Characterization Experiment (ACE 1). <i>Journal of Geophysical Research</i> , 1998, 103, 16535-16545.	3.3	112
14	Amazon boundary layer aerosol concentration sustained by vertical transport during rainfall. <i>Nature</i> , 2016, 539, 416-419.	27.8	112
15	Aircraft observations of the upper tropospheric fine particle aerosol in the Northern and Southern Hemispheres at midlatitudes. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	110
16	Sulfur isotope dynamics in two central european watersheds affected by high atmospheric deposition of SOx. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 367-383.	3.9	106
17	Enhancement of the aerosol direct radiative effect by semi-volatile aerosol components: airborne measurements in North-Western Europe. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 8151-8171.	4.9	105
18	Arctic sea ice melt leads to atmospheric new particle formation. <i>Scientific Reports</i> , 2017, 7, 3318.	3.3	101

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19	Pan-Arctic aerosol number size distributions: seasonality and transport patterns. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 8101-8128.	4.9	99
20	Organosulfates and organic acids in Arctic aerosols: speciation, annual variation and concentration levels. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 7807-7823.	4.9	89
21	Changes in aerosol properties during spring-summer period in the Arctic troposphere. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 445-462.	4.9	86
22	Overview of the synoptic and pollution situation over Europe during the EUCAARI-LONGREX field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 1065-1082.	4.9	79
23	Explicit Simulation of Aerosol Physics in a Cloud-Resolving Model: Aerosol Transport and Processing in the Free Troposphere. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 682-696.	1.7	76
24	Quantitative measurement of the microphysical and optical properties of cirrus clouds with four different in situ probes: Evidence of small ice crystals. <i>Geophysical Research Letters</i> , 2002, 29, XXX-XXX.	4.0	75
25	Cirrus cloud occurrence as function of ambient relative humidity: a comparison of observations obtained during the INCA experiment. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1807-1816.	4.9	74
26	Microphysical explanation of the RH-dependent water affinity of biogenic organic aerosol and its importance for climate. <i>Geophysical Research Letters</i> , 2017, 44, 5167-5177.	4.0	74
27	Vertical and horizontal distributions of the aerosol number concentration and size distribution over the northern Indian Ocean. <i>Journal of Geophysical Research</i> , 2001, 106, 28629-28641.	3.3	72
28	Differing Mechanisms of New Particle Formation at Two Arctic Sites. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091334.	4.0	70
29	A new aerosol wet removal scheme for the Lagrangian particle model FLEXPART v10. <i>Geoscientific Model Development</i> , 2017, 10, 1447-1466.	3.6	68
30	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
31	A global analysis of climate-relevant aerosol properties retrieved from the network of Global Atmosphere Watch (GAW) near-surface observatories. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 4353-4392.	3.1	65
32	Single particle analysis of ice crystal residuals observed in orographic wave clouds over Scandinavia during INTACC experiment. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1977-1990.	4.9	62
33	Frequent nucleation events at the high altitude station of Chacaltaya (5240 m a.s.l.), Bolivia. <i>Atmospheric Environment</i> , 2015, 102, 18-29.	4.1	59
34	In situ laboratory sea spray production during the Marine Aerosol Production 2006 cruise on the northeastern Atlantic Ocean. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
35	CCN production by new particle formation in the free troposphere. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1529-1541.	4.9	52
36	Artificial primary marine aerosol production: a laboratory study with varying water temperature, salinity, and succinic acid concentration. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10709-10724.	4.9	51

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37	Atmospheric chemistry in stereo: A new look at secondary organic aerosols from isoprene. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	49
38	Aerosol and bacterial emissions from Baltic Seawater. <i>Atmospheric Research</i> , 2011, 99, 1-14.	4.1	49
39	In-situ observations of aerosol particles remaining from evaporated cirrus crystals: Comparing clean and polluted air masses. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1037-1049.	4.9	47
40	Humidity observations in the Arctic troposphere over Ny-Ålesund, Svalbard based on 15 years of radiosonde data. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2721-2732.	4.9	45
41	Evolution of aerosol properties over the rain forest in Surinam, South America, observed from aircraft during the LBA-CLAIRE 98 experiment. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	42
42	Aerosol transport over the Andes from the Amazon Basin to the remote Pacific Ocean: A multiyear CALIOP assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8411-8425.	3.3	42
43	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2015-2061.	4.9	42
44	How much of the global aerosol optical depth is found in the boundary layer and free troposphere?. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7709-7720.	4.9	40
45	Source characterisation of the Central European atmospheric aerosol using multivariate statistical methods. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 109-110, 519-525.	1.4	38
46	Spatial and temporal distribution of atmospheric aerosols in the lowermost troposphere over the Amazonian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1527-1543.	4.9	38
47	In-situ airborne observations of the microphysical properties of the Arctic tropospheric aerosol during late spring and summer. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 392.	1.6	38
48	Wintertime Arctic Ocean sea water properties and primary marine aerosol concentrations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10405-10421.	4.9	37
49	Do organics contribute to small particle formation in the Amazonian upper troposphere?. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	36
50	Aerosol number fluxes over the Amazon rain forest during the wet season. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 9381-9400.	4.9	36
51	Low hygroscopic scattering enhancement of boreal aerosol and the implications for a columnar optical closure study. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7247-7267.	4.9	32
52	Seawater mesocosm experiments in the Arctic uncover differential transfer of marine bacteria to aerosols. <i>Environmental Microbiology Reports</i> , 2015, 7, 460-470.	2.4	32
53	Influence of Biogenic Organics on the Chemical Composition of Arctic Aerosols. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1238-1250.	4.9	32
54	Identification of topographic features influencing aerosol observations at high altitude stations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12289-12313.	4.9	31

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55	Analysis of number size distributions of tropical free tropospheric aerosol particles observed at Pico Espejo (4765 m a.s.l.), Venezuela. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3319-3332.	4.9	30
56	On small particles in the Arctic summer boundary layer: observations at two different heights near Ny-Å...lesund, Svalbard. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009, 61, 473-482.	1.6	29
57	Tropical and Boreal Forest " Atmosphere Interactions: A Review. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 74, 24.	1.6	27
58	Multi-year statistical and modeling analysis of submicrometer aerosol number size distributions at a rain forest site in Amazonia. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10255-10274.	4.9	26
59	Ground-based observation of clusters and nucleation-mode particles in the Amazon. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13245-13264.	4.9	26
60	Simultaneous measurements of aerosol size distributions at three sites in the European high Arctic. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7377-7395.	4.9	26
61	Single particle analysis of the accumulation mode aerosol over the northeast Amazonian tropical rain forest, Surinam, South America. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3331-3344.	4.9	25
62	Aerosol-cirrus interactions: a number based phenomenon at all?. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 293-305.	4.9	24
63	Emission and dry deposition of accumulation mode particles in the Amazon Basin. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10237-10253.	4.9	24
64	A comparison of dry and wet season aerosol number fluxes over the Amazon rain forest. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3063-3079.	4.9	24
65	Long-term in situ observations of biomass burning aerosol at a high altitude station in Venezuela " sources, impacts and interannual variability. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9837-9853.	4.9	24
66	The seasonal characteristics of cloud condensation nuclei (CCN) in the arctic lower troposphere. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1513291.	1.6	24
67	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). <i>Atmospheric Environment</i> , 2018, 194, 158-169.	4.1	24
68	Atmospheric composition in the European Arctic and 30 years of the Zeppelin Observatory, Ny-Å...lesund. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3321-3369.	4.9	24
69	Observational and modelling evidence of tropical deep convective clouds as a source of mid-tropospheric accumulation mode aerosols. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	23
70	Ubiquity and impact of thin mid-level clouds in the tropics. <i>Nature Communications</i> , 2016, 7, 12432.	12.8	21
71	Atmospheric new particle formation characteristics in the Arctic as measured at Mount Zeppelin, Svalbard, from 2016 to 2018. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13425-13441.	4.9	21
72	Chemical properties of Arctic aerosol particles collected at the Zeppelin station during the aerosol transition period in May and June of 2004. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 405.	1.6	20

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73	The radiative effect of an aged, internally mixed Arctic aerosol originating from lower-latitude biomass burning. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 677.	1.6	20
74	Dimethyl Sulfide-Induced Increase in Cloud Condensation Nuclei in the Arctic Atmosphere. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006969.	4.9	20
75	From a polar to a marine environment: has the changing Arctic led to a shift in aerosol light scattering properties?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13671-13686.	4.9	20
76	Detection of lightning-produced NO in the midlatitude upper troposphere during STREAM 1998. <i>Journal of Geophysical Research</i> , 2001, 106, 27777-27785.	3.3	19
77	Comparison of PM _{2.5} 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. <i>Environmental Pollution</i> , 2018, 241, 841-851.	7.5	19
78	Estimates of mass absorption cross sections of black carbon for filter-based absorption photometers in the Arctic. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 6723-6748.	3.1	19
79	Temporal trends of bulk precipitation and stream water chemistry (1977-1997) in a small forested area, Krusná hora, northern Bohemia, Czech Republic. <i>Hydrological Processes</i> , 1999, 13, 2721-2741.	2.6	18
80	Microphysical and chemical characteristics of cloud droplet residuals and interstitial particles in continental stratocumulus clouds. <i>Atmospheric Research</i> , 2007, 86, 225-240.	4.1	17
81	Biomass burning and urban emission impacts in the Andes Cordillera region based on in situ measurements from the Chacaltaya observatory, Bolivia (5240 a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14805-14824.	4.9	17
82	A long-term study of cloud residuals from low-level Arctic clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8933-8959.	4.9	15
83	Multi-seasonal ultrafine aerosol particle number concentration measurements at the Gruvebadet observatory, Ny-Ålesund, Svalbard Islands. <i>Rendiconti Lincei</i> , 2016, 27, 59-71.	2.2	14
84	Individual Particle Characteristics, Optical Properties and Evolution of an Extreme Long-Range Transported Biomass Burning Event in the European Arctic (Ny-Ålesund, Svalbard Islands). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031535.	3.3	14
85	Airborne observations of aerosol microphysical properties and particle ageing processes in the troposphere above Europe. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11533-11554.	4.9	13
86	Comparison between summertime and wintertime Arctic Ocean primary marine aerosol properties. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4783-4799.	4.9	13
87	Identifying source regions of air masses sampled at the tropical high-altitude site of Chacaltaya using WRF-FLEXPART and cluster analysis. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16453-16477.	4.9	13
88	Airborne observations of dry particle absorption and scattering properties over the northern Indian Ocean. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 34-1.	3.3	12
89	Overview of the biosphere-aerosol-cloud-climate interactions (BACCI) studies. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008, 60, 300-317.	1.6	12
90	Primary and secondary organics in the tropical Amazonian rainforest aerosols: chiral analysis of 2-methyltetraols. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1413.	3.5	12

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91	Physical and Chemical Properties of Cloud Droplet Residuals and Aerosol Particles During the Arctic Ocean 2018 Expedition. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	12
92	Large seasonal and interannual variations of biogenic sulfur compounds in the Arctic atmosphere (Svalbard; 78.9°N, 11.9°E). <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9761-9777.	4.9	11
93	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. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1343-1353.	4.9	10
94	New method for resolving the enantiomeric composition of 2-methyltetrols in atmospheric organic aerosols. <i>Journal of Chromatography A</i> , 2011, 1218, 9288-9294.	3.7	10
95	The SALTENA Experiment: Comprehensive Observations of Aerosol Sources, Formation, and Processes in the South American Andes. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E212-E229.	3.3	9
96	Zeppelin-led study on the onset of new particle formation in the planetary boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12649-12663.	4.9	9
97	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 H ₂ SO ₄ /H ₂ O. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1105-1120.	4.9	8
98	Baltic Sea Spray Emissions: In Situ Eddy Covariance Fluxes vs. Simulated Tank Sea Spray. <i>Atmosphere</i> , 2021, 12, 274.	2.3	8
99	Source-receptor relationships for heavy metals in the European atmosphere. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 150, 322-331.	1.4	6
100	Megacity and local contributions to regional air pollution: an aircraft case study over London. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7193-7216.	4.9	6
101	Physical and chemical properties of aerosol particles and cloud residuals on Mt. Åreskutan in Central Sweden during summer 2014. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1776080.	1.6	5
102	Aerosol dynamics and dispersion of radioactive particles. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5173-5193.	4.9	5
103	Transport and chemistry of isoprene and its oxidation products in deep convective clouds. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 73, 1979856.	1.6	5
104	A Novel Framework to Study Trace Gas Transport in Deep Convective Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001931.	3.8	4
105	The Atmospheric Aerosol over Western Greece-Six Years of Aerosol Observations at the Navarino Environmental Observatory. <i>Atmosphere</i> , 2021, 12, 445.	2.3	4
106	Quality assurance of environmental PIXE analysis in Prague. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 136-138, 981-985.	1.4	3
107	Relationship between cloud condensation nuclei (CCN) concentration and aerosol optical depth in the Arctic region. <i>Atmospheric Environment</i> , 2021, , 118748.	4.1	3
108	On small particles in the Arctic summer boundary layer: observations at two different heights near Ny-Ålesund, Svalbard. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009, 61, .	1.6	2

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109	Changes in hygroscopic growth of atmospheric submicrometer particles during air mass subsidence events in remote marine environments. , 1996, , 824-827.		2
110	New aerosol particle formation in Amazonia. , 2013, , .		0
111	New particle formation events observed at a high altitude site Pico Espejo, Venezuela. , 2013, , .		0
112	Atmospheric aerosol variability and properties in lowermost tropical free troposphere. , 2013, , .		0
113	Measurements of hygroscopic growth of atmospheric submicrometer particles during a transect of the Pacific Ocean. , 1996, , 897-900.		0