

# Renate Forkel

## List of Publications by Year in descending order

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67  
papers

3,977  
citations

109137

35  
h-index

143772

57  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3972  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emission fluxes and atmospheric degradation of monoterpenes above a boreal forest: field measurements and modelling. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 406.	0.8	27
2	Development of an atmospheric chemistry model coupled to the PALM model system 6.0: implementation and first applications. <i>Geoscientific Model Development</i> , 2021, 14, 1171-1193.	1.3	21
3	Overview of the PALM model system 6.0. <i>Geoscientific Model Development</i> , 2020, 13, 1335-1372.	1.3	152
4	Development of a new urban climate model based on the model PALM – Project overview, planned work, and first achievements. <i>Meteorologische Zeitschrift</i> , 2019, 28, 105-119.	0.5	47
5	An assessment of aerosol optical properties from remote-sensing observations and regional chemistry-climate coupled models over Europe. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5021-5043.	1.9	18
6	Evaluating cloud properties in an ensemble of regional online coupled models against satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15183-15199.	1.9	8
7	Regional effects of atmospheric aerosols on temperature: an evaluation of an ensemble of online coupled models. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9677-9696.	1.9	14
8	Mixing layer height as an indicator for urban air quality?. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2969-2988.	1.2	80
9	Advances in Boundary-Layer/Air Pollution Meteorology. <i>Advances in Meteorology</i> , 2016, 2016, 1-2.	0.6	4
10	Insights into the deterministic skill of air quality ensembles from the analysis of AQMEII data. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 15629-15652.	1.9	23
11	Secondary effects of urban heat island mitigation measures on air quality. <i>Atmospheric Environment</i> , 2016, 125, 199-211.	1.9	140
12	A Multi-model Case Study on Aerosol Feedbacks in Online Coupled Chemistry-Meteorology Models Within the COST Action ES1004 EuMetChem. <i>Springer Proceedings in Complexity</i> , 2016, , 23-28.	0.2	6
13	Cool Cities – Clean Cities? Secondary Impacts of Urban Heat Island Mitigation Strategies on Urban Air Quality. <i>Springer Proceedings in Complexity</i> , 2016, , 371-375.	0.2	0
14	Assessment of the MACC reanalysis and its influence as chemical boundary conditions for regional air quality modeling in AQMEII-2. <i>Atmospheric Environment</i> , 2015, 115, 371-388.	1.9	59
15	FORest Canopy Atmosphere Transfer (FORCAsT) 1.0: a 1-D model of biosphere-atmosphere chemical exchange. <i>Geoscientific Model Development</i> , 2015, 8, 3765-3784.	1.3	60
16	Evaluation of the high resolution WRF-Chem (v3.4.1) air quality forecast and its comparison with statistical ozone predictions. <i>Geoscientific Model Development</i> , 2015, 8, 2119-2137.	1.3	23
17	Sensitivity of feedback effects in CBMZ/MOSAIC chemical mechanism. <i>Atmospheric Environment</i> , 2015, 115, 646-656.	1.9	37
18	Analysis of the WRF-Chem contributions to AQMEII phase2 with respect to aerosol radiative feedbacks on meteorology and pollutant distributions. <i>Atmospheric Environment</i> , 2015, 115, 630-645.	1.9	87

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19	Influence of the choice of gas-phase mechanism on predictions of key gaseous pollutants during the AQMEII phase-2 intercomparison. <i>Atmospheric Environment</i> , 2015, 115, 553-568.	1.9	92
20	WRF-Chem model sensitivity to chemical mechanisms choice in reconstructing aerosol optical properties. <i>Atmospheric Environment</i> , 2015, 115, 604-619.	1.9	60
21	Sensitivity analysis of the microphysics scheme in WRF-Chem contributions to AQMEII phase 2. <i>Atmospheric Environment</i> , 2015, 115, 620-629.	1.9	37
22	Feedbacks between air pollution and weather, Part 1: Effects on weather. <i>Atmospheric Environment</i> , 2015, 115, 442-469.	1.9	102
23	Comparative analysis of meteorological performance of coupled chemistry-meteorology models in the context of AQMEII phase 2. <i>Atmospheric Environment</i> , 2015, 115, 470-498.	1.9	85
24	Evaluation of operational on-line-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part I: Ozone. <i>Atmospheric Environment</i> , 2015, 115, 404-420.	1.9	168
25	Analysis of meteorology-chemistry interactions during air pollution episodes using online coupled models within AQMEII phase-2. <i>Atmospheric Environment</i> , 2015, 115, 527-540.	1.9	61
26	Evaluation of operational online-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part II: Particulate matter. <i>Atmospheric Environment</i> , 2015, 115, 421-441.	1.9	133
27	Uncertainties of simulated aerosol optical properties induced by assumptions on aerosol physical and chemical properties: An AQMEII-2 perspective. <i>Atmospheric Environment</i> , 2015, 115, 541-552.	1.9	84
28	Feedbacks between air pollution and weather, part 2: Effects on chemistry. <i>Atmospheric Environment</i> , 2015, 115, 499-526.	1.9	99
29	What is the benefit of ceilometers for aerosol remote sensing? An answer from EARLINET. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1979-1997.	1.2	143
30	Online coupled regional meteorology chemistry models in Europe: current status and prospects. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 317-398.	1.9	271
31	A Case Study on the Impact of Aerosol-Radiation Feedback on Meteorology and Regional Pollutant Distributions. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014, , 357-361.	0.1	0
32	Impact of the vertical mixing induced by low-level jets on boundary layer ozone concentration. <i>Atmospheric Environment</i> , 2013, 70, 123-130.	1.9	98
33	Evaluating the capability of regional-scale air quality models to capture the vertical distribution of pollutants. <i>Geoscientific Model Development</i> , 2013, 6, 791-818.	1.3	49
34	In-canopy gas-phase chemistry during CABINEX 2009: sensitivity of a 1-D canopy model to vertical mixing and isoprene chemistry. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8829-8849.	1.9	78
35	Characterization of the Eyjafjallajökull ash-plume: Potential of lidar remote sensing. <i>Physics and Chemistry of the Earth</i> , 2012, 45-46, 79-86.	1.2	59
36	Effect of aerosol-radiation feedback on regional air quality - A case study with WRF/Chem. <i>Atmospheric Environment</i> , 2012, 53, 202-211.	1.9	139

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37	Model evaluation and ensemble modelling of surface-level ozone in Europe and North America in the context of AQMEII. Atmospheric Environment, 2012, 53, 60-74.	1.9	192
38	Operational model evaluation for particulate matter in Europe and North America in the context of AQMEII. Atmospheric Environment, 2012, 53, 75-92.	1.9	214
39	Influences of the 2010 Eyjafjallaj�kull volcanic plume on air quality in the northern Alpine region. Atmospheric Chemistry and Physics, 2011, 11, 8555-8575.	1.9	46
40	Measurement and simulation of the 16/17 April 2010 Eyjafjallaj�kull volcanic ash layer dispersion in the northern Alpine region. Atmospheric Chemistry and Physics, 2011, 11, 2689-2701.	1.9	78
41	Temporal and spatial structure of a volcanic ash cloud: ground-based remote sensing and numerical modeling. , 2010, , .		1
42	Front Matter: Volume 7827. , 2010, , .		0
43	Application and intercomparison of the RADM2 and RACM chemistry mechanism including a new isoprene degradation scheme within the regional meteorology-chemistry-model MCCM. International Journal of Environment and Pollution, 2010, 40, 136.	0.2	4
44	The On-Line Coupled Mesoscale Climate��Chemistry Model MCCM: A Modelling Tool for Short Episodes as well as for Climate Periods. , 2010, , 81-88.		1
45	Air Pollution Assessment in an Alpine Valley. NATO Security Through Science Series C: Environmental Security, 2008, , 723-724.	0.1	0
46	Nested regional climate��chemistry simulations for central Europe. Comptes Rendus - Geoscience, 2007, 339, 734-746.	0.4	30
47	Regional climate change and its impact on photooxidant concentrations in southern Germany: Simulations with a coupled regional climate-chemistry model. Journal of Geophysical Research, 2006, 111, .	3.3	81
48	Future scenarios of N2O and NO emissions from European forest soils. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	50
49	A relaxed-eddy-accumulation method for the measurement of isoprenoid canopy-fluxes using an online gas-chromatographic technique and PTR-MS simultaneously. Atmospheric Environment, 2006, 40, 43-54.	1.9	44
50	Trace gas exchange and gas phase chemistry in a Norway spruce forest: A study with a coupled 1-dimensional canopy atmospheric chemistry emission model. Atmospheric Environment, 2006, 40, 28-42.	1.9	91
51	Experiments on forest/atmosphere exchange: Climatology and fluxes during two summer campaigns in NE Bavaria. Atmospheric Environment, 2006, 40, 3-20.	1.9	35
52	Impact analysis of climate change for an Alpine catchment using high resolution dynamic downscaling of ECHAM4 time slices. Hydrology and Earth System Sciences, 2004, 8, 1031-1045.	1.9	61
53	Observations of particle formation and growth in a mountainous forest region in central Europe. Journal of Geophysical Research, 2004, 109, .	3.3	55
54	Title is missing!. Journal of Atmospheric Chemistry, 2002, 42, 159-177.	1.4	17

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55	Emission of Biogenic Volatile Organic Compounds: An Overview of Field, Laboratory and Modelling Studies Performed during the "Tropospheric Research Program" (TFS) 1997-2000. , 2002, , 159-177.		6
56	Ozone and volatile organic compounds: isoprene, terpenes, aldehydes, and organic acids. Tree Physiology, 2002, , 257-276.	0.9	0
57	Emission fluxes and atmospheric degradation of monoterpenes above a boreal forest: field measurements and modelling. Tellus, Series B: Chemical and Physical Meteorology, 2001, 53, 406-422.	0.8	26
58	Application of a multiscale, coupled MM5/chemistry model to the complex terrain of the VOTALP valley campaign. Atmospheric Environment, 2000, 34, 1435-1453.	1.9	188
59	Biogenic aerosol formation in the boreal forest. Journal of Aerosol Science, 2000, 31, 598-599.	1.8	6
60	Modelling of radiation quantities and photolysis frequencies in the aqueous phase in the troposphere. Atmospheric Environment, 1997, 31, 3137-3150.	1.9	35
61	Cloud and Fog Effects and Their Parameterisation in Regional Air Quality Models. , 1997, , 121-155.		1
62	Application of transient turbulent theory to study interactions between the atmospheric boundary layer and forest canopies. Boundary-Layer Meteorology, 1996, 79, 315-344.	1.2	29
63	Fog chemistry during EUMAC Joint Cases: Analysis of routine measurements in southern Germany and model calculations. Meteorology and Atmospheric Physics, 1995, 57, 61-86.	0.9	7
64	Comparison of energy fluxes calculated with the Penman-Monteith equation and the vegetation models SiB and Cupid. Journal of Hydrology, 1995, 166, 193-211.	2.3	12
65	Spectral actinic flux and its ratio to spectral irradiance by radiation transfer calculations. Journal of Geophysical Research, 1993, 98, 1151-1162.	3.3	46
66	A one-dimensional numerical model to simulate formation and balance of sulfate during radiation fog events. Journal of Geophysical Research, 1990, 95, 18501-18515.	3.3	20
67	A one-dimensional numerical model to simulate liquid phase chemical reactions within radiation fog. Journal of Aerosol Science, 1989, 20, 1139-1142.	1.8	0