

Nicole van Lipzig

List of Publications by Year in descending order

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127
papers

6,538
citations

61984

43
h-index

76900

74
g-index

135
all docs

135
docs citations

135
times ranked

7276
citing authors

#	ARTICLE	IF	CITATIONS
1	LakeMIP Kivu: evaluating the representation of a large, deep tropical lake by a set of one-dimensional lake models. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 66, 21390.	1.7	88
2	Lack of vegetation exacerbates exposure to dangerous heat in dense settlements in a tropical African city. <i>Environmental Research Letters</i> , 2022, 17, 024004.	5.2	16
3	Including realistic upper atmospheres in a wind-farm gravity-wave model. <i>Wind Energy Science</i> , 2022, 7, 1367-1382.	3.3	3
4	Evaluation of a roughness length parametrization accounting for wind-wave alignment in a coupled atmosphere-wave model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2021, 147, 825-846.	2.7	8
5	Simulating the Impact of Global Reservoir Expansion on the Present-Day Climate. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034485.	3.3	9
6	Can local fieldwork help to represent intra-urban variability of canopy parameters relevant for tropical African climate studies?. <i>Theoretical and Applied Climatology</i> , 2021, 146, 457-474.	2.8	7
7	COSMO-CLM regional climate simulations in the Coordinated Regional Climate Downscaling Experiment (CORDEX) framework: a review. <i>Geoscientific Model Development</i> , 2021, 14, 5125-5154.	3.6	55
8	What is the surface mass balance of Antarctica? An intercomparison of regional climate model estimates. <i>Cryosphere</i> , 2021, 15, 3751-3784.	3.9	55
9	Evaluation framework for sub-daily rainfall extremes simulated by regional climate models. <i>Journal of Applied Meteorology and Climatology</i> , 2021, , .	1.5	2
10	Impact of ocean waves on offshore wind farm power production. <i>Renewable Energy</i> , 2021, 180, 1179-1193.	8.9	12
11	International trade is a key component of climate change adaptation. <i>Nature Climate Change</i> , 2021, 11, 915-916.	18.8	7
12	Future intensification of precipitation and wind gust associated thunderstorms over Lake Victoria. <i>Weather and Climate Extremes</i> , 2021, 34, 100391.	4.1	8
13	A convection-permitting model for the Lake Victoria Basin: evaluation and insight into the mesoscale versus synoptic atmospheric dynamics. <i>Climate Dynamics</i> , 2020, 54, 1779-1799.	3.8	32
14	Consistent scale-dependency of future increases in hourly extreme precipitation in two convection-permitting climate models. <i>Climate Dynamics</i> , 2020, 54, 1267-1280.	3.8	21
15	Modelling and mapping the intra-urban spatial distribution of <i>Plasmodium falciparum</i> parasite rate using very-high-resolution satellite derived indicators. <i>International Journal of Health Geographics</i> , 2020, 19, 38.	2.5	11
16	3D-modelling of Lake Kivu: Horizontal and vertical flow and temperature structure under spatially variable atmospheric forcing. <i>Journal of Great Lakes Research</i> , 2020, 46, 947-960.	1.9	16
17	Global hunger and climate change adaptation through international trade. <i>Nature Climate Change</i> , 2020, 10, 829-835.	18.8	117
18	Importance of Blowing Snow During Cloudy Conditions in East Antarctica: Comparison of Ground-Based and Space-Borne Retrievals Over Ice-Shelf and Mountain Regions. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	4

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19	The Spatiotemporal Variability of Cloud Radiative Effects on the Greenland Ice Sheet Surface Mass Balance. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087315.	4.0	14
20	Global Heat Uptake by Inland Waters. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087867.	4.0	31
21	The local climate impact of an African city during clear-sky conditions”Implications of the recent urbanization in Kampala (Uganda). <i>International Journal of Climatology</i> , 2020, 40, 4586-4608.	3.5	25
22	Future heating and cooling degree days for Belgium under a high-end climate change scenario. <i>Energy and Buildings</i> , 2020, 216, 109935.	6.7	36
23	Smart renewable electricity portfolios in West Africa. <i>Nature Sustainability</i> , 2020, 3, 710-719.	23.7	66
24	Can we use local climate zones for predicting malaria prevalence across sub-Saharan African cities?. <i>Environmental Research Letters</i> , 2020, 15, 124051.	5.2	16
25	An Evaluation of Surface Climatology in State-of-the-Art Reanalyses over the Antarctic Ice Sheet. <i>Journal of Climate</i> , 2019, 32, 6899-6915.	3.2	71
26	Using Local Climate Zones in Sub-Saharan Africa to tackle urban health issues. <i>Urban Climate</i> , 2019, 27, 227-242.	5.7	61
27	A new roughness length parameterization accounting for wind-wave (mis)alignment. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6681-6700.	4.9	21
28	The vertical structure of precipitation at two stations in East Antarctica derived from micro rain radars. <i>Cryosphere</i> , 2019, 13, 247-264.	3.9	20
29	Evaluation of CloudSat snowfall rate profiles by a comparison with in situ micro-rain radar observations in East Antarctica. <i>Cryosphere</i> , 2019, 13, 943-954.	3.9	19
30	A New Regional Climate Model for POLAR-CORDEX: Evaluation of a 30-Year Hindcast with COSMO-CLM ² Over Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1405-1427.	3.3	24
31	Future Weather Data for Dynamic Building Energy Simulations: Overview of Available Data and Presentation of Newly Derived Data for Belgium. <i>Energy, Environment, and Sustainability</i> , 2019, , 111-138.	1.0	7
32	The influence of convection-permitting regional climate modeling on future projections of extreme precipitation: dependency on topography and timescale. <i>Climate Dynamics</i> , 2019, 52, 5303-5324.	3.8	37
33	Evaluation of the CloudSat surface snowfall product over Antarctica using ground-based precipitation radars. <i>Cryosphere</i> , 2018, 12, 3775-3789.	3.9	37
34	Estimating the effect of rainfall on the surface temperature of a tropical lake. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 6357-6369.	4.9	31
35	Annual impact of wind-farm gravity waves on the Belgian-Dutch offshore wind-farm cluster. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 072006.	0.4	11
36	Modelling the water balance of Lake Victoria (East Africa) – Part 1: Observational analysis. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5509-5525.	4.9	60

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37	Modelling the water balance of Lake Victoria (East Africa) – Part 2: Future projections. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 5527-5549.	4.9	36
38	A new approach for assessing synergies of solar and wind power: implications for West Africa. <i>Environmental Research Letters</i> , 2018, 13, 094009.	5.2	77
39	How does the ice sheet surface mass balance relate to snowfall? Insights from a ground-based precipitation radar in East Antarctica. <i>Cryosphere</i> , 2018, 12, 1987-2003.	3.9	28
40	The CORDEX.be initiative as a foundation for climate services in Belgium. <i>Climate Services</i> , 2018, 11, 49-61.	2.5	44
41	Should future wind speed changes be taken into account in wind farm development?. <i>Environmental Research Letters</i> , 2018, 13, 064012.	5.2	37
42	Multidecadal convection permitting climate simulations over Belgium: sensitivity of future precipitation extremes. <i>Atmospheric Science Letters</i> , 2017, 18, 29-36.	1.9	20
43	Do convection-permitting models improve the representation of the impact of LUC?. <i>Climate Dynamics</i> , 2017, 49, 2749-2763.	3.8	12
44	Heat stress increase under climate change twice as large in cities as in rural areas: A study for a densely populated midlatitude maritime region. <i>Geophysical Research Letters</i> , 2017, 44, 8997-9007.	4.0	125
45	Estimating radar reflectivity - Snowfall rate relationships and their uncertainties over Antarctica by combining disdrometer and radar observations. <i>Atmospheric Research</i> , 2017, 196, 211-223.	4.1	52
46	Early warnings of hazardous thunderstorms over Lake Victoria. <i>Environmental Research Letters</i> , 2017, 12, 074012.	5.2	35
47	Blowing snow detection from ground-based ceilometers: application to East Antarctica. <i>Cryosphere</i> , 2017, 11, 2755-2772.	3.9	31
48	Local impact analysis of climate change on precipitation extremes: are high-resolution climate models needed for realistic simulations?. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3843-3857.	4.9	53
49	The efficient urban canopy dependency parametrization (SURY) v1.0 for atmospheric modelling: description and application with the COSMO-CLM model for a Belgian summer. <i>Geoscientific Model Development</i> , 2016, 9, 3027-3054.	3.6	96
50	Improving satellite-retrieved surface radiative fluxes in polar regions using a smart sampling approach. <i>Cryosphere</i> , 2016, 10, 2379-2397.	3.9	14
51	Modelling strategies for performing convection-permitting climate simulations. <i>Meteorologische Zeitschrift</i> , 2016, 25, 149-163.	1.0	49
52	Hazardous thunderstorm intensification over Lake Victoria. <i>Nature Communications</i> , 2016, 7, 12786.	12.8	87
53	Evaluation of a wind farm parametrization in a regional climate model using large eddy simulations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 3152-3161.	2.7	15
54	Reconstruction of a flash flood event through a multi-hazard approach: focus on the Rwenzori Mountains, Uganda. <i>Natural Hazards</i> , 2016, 84, 851-876.	3.4	40

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55	Drivers of future changes in East African precipitation. <i>Environmental Research Letters</i> , 2016, 11, 114011.	5.2	66
56	Clouds enhance Greenland ice sheet meltwater runoff. <i>Nature Communications</i> , 2016, 7, 10266.	12.8	164
57	Assessing the current and future urban heat island of Brussels. <i>Urban Climate</i> , 2016, 15, 1-15.	5.7	67
58	Multi-year wind dynamics around Lake Tanganyika. <i>Climate Dynamics</i> , 2016, 47, 3191-3202.	3.8	28
59	How well can a convection-permitting climate model reproduce decadal statistics of precipitation, temperature and cloud characteristics?. <i>Climate Dynamics</i> , 2016, 47, 3043-3061.	3.8	74
60	New insights in the capability of climate models to simulate the impact of LUC based on temperature decomposition of paired site observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5417-5436.	3.3	44
61	The Impact of the African Great Lakes on the Regional Climate. <i>Journal of Climate</i> , 2015, 28, 4061-4085.	3.2	156
62	Cloud and precipitation properties from ground-based remote-sensing instruments in East Antarctica. <i>Cryosphere</i> , 2015, 9, 285-304.	3.9	67
63	The impact of impervious water-storage parametrization on urban climate modelling. <i>Urban Climate</i> , 2015, 11, 24-50.	5.7	53
64	A review on regional convection-permitting climate modeling: Demonstrations, prospects, and challenges. <i>Reviews of Geophysics</i> , 2015, 53, 323-361.	23.0	907
65	Assessment of natural climate variability using a weather generator. <i>Climate Dynamics</i> , 2015, 44, 495-508.	3.8	13
66	Understanding the performance of the FLake model over two African Great Lakes. <i>Geoscientific Model Development</i> , 2014, 7, 317-337.	3.6	82
67	An improved algorithm for polar cloud-base detection by ceilometer over the ice sheets. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1153-1167.	3.1	29
68	The Regional Climate Impact of a Realistic Future Deforestation Scenario in the Congo Basin. <i>Journal of Climate</i> , 2014, 27, 2714-2734.	3.2	70
69	The implementation of biofiltration systems, rainwater tanks and urban irrigation in a single-layer urban canopy model. <i>Urban Climate</i> , 2014, 10, 148-170.	5.7	23
70	Influence of the circumglobal wave-train on European summer precipitation. <i>Climate Dynamics</i> , 2014, 43, 503-515.	3.8	72
71	The role of atmospheric rivers in anomalous snow accumulation in East Antarctica. <i>Geophysical Research Letters</i> , 2014, 41, 6199-6206.	4.0	206
72	How does the spaceborne radar blind zone affect derived surface snowfall statistics in polar regions?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,604.	3.3	71

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73	The effect of climate change and emission scenarios on ozone concentrations over Belgium: a high-resolution model study for policy support. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5893-5904.	4.9	9
74	High variability of climate and surface mass balance induced by Antarctic ice rises. <i>Journal of Glaciology</i> , 2014, 60, 1101-1110.	2.2	43
75	A height dependent evaluation of wind and temperature over Europe in the CMIP5 Earth System Models. <i>Climate Research</i> , 2014, 61, 41-56.	1.1	7
76	The diurnal evolution of the urban heat island of Paris: a model-based case study during Summer 2006. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8525-8541.	4.9	49
77	Simulating the surface energy balance over two contrasting urban environments using the Community Land Model Urban. <i>International Journal of Climatology</i> , 2013, 33, 3182-3205.	3.5	28
78	Meteorological regimes and accumulation patterns at Utsteinen, Dronning Maud Land, East Antarctica: Analysis of two contrasting years. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1700-1715.	3.3	57
79	A new statistical approach to downscale wind speed distributions at a site in northern Europe. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2272-2283.	3.3	21
80	Quantifying successional land cover after clearing of tropical rainforest along forest frontiers in the Congo Basin. <i>Physical Geography</i> , 2013, 34, 417-440.	1.4	12
81	Surface and snowdrift sublimation at Princess Elisabeth station, East Antarctica. <i>Cryosphere</i> , 2012, 6, 841-857.	3.9	32
82	Estimating cloud optical thickness and associated surface UV irradiance from SEVIRI by implementing a semi-analytical cloud retrieval algorithm. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7961-7975.	4.9	9
83	Comprehensive Parametrization of Surface-Layer Transfer Coefficients for Use in Atmospheric Numerical Models. <i>Boundary-Layer Meteorology</i> , 2012, 145, 539-550.	2.3	24
84	Validation and comparison of two soil-vegetation-atmosphere transfer models for tropical Africa. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	20
85	Tropospheric clouds in Antarctica. <i>Reviews of Geophysics</i> , 2012, 50, .	23.0	124
86	The role of precipitation size distributions in km-scale NWP simulations of intense precipitation: evaluation of cloud properties and surface precipitation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 2163-2181.	2.7	9
87	The precipitation response to the desiccation of Lake Chad. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 707-719.	2.7	32
88	Regime-dependent evaluation of accumulated precipitation in COSMO. <i>Theoretical and Applied Climatology</i> , 2012, 108, 39-52.	2.8	9
89	Tracking mesoscale convective systems in the Sahel: relation between cloud parameters and precipitation. <i>International Journal of Climatology</i> , 2012, 32, 1921-1934.	3.5	38
90	Evaluation of moist processes during intense precipitation in km-scale NWP models using remote sensing and in-situ data: Impact of microphysics size distribution assumptions. <i>Atmospheric Research</i> , 2011, 99, 15-38.	4.1	15

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91	Evaluation of microphysical assumptions of the COSMO model using radar and rain gauge observations. <i>Meteorologische Zeitschrift</i> , 2011, 20, 133-144.	1.0	3
92	Long-term evaluation of COSMO forecasting using combined observational data of the GOP period. <i>Meteorologische Zeitschrift</i> , 2011, 20, 119-132.	1.0	28
93	Relations between atmospheric circulation and precipitation in Belgium. <i>Meteorology and Atmospheric Physics</i> , 2011, 111, 27-39.	2.0	29
94	The Impact of Size Distribution Assumptions in a Bulk One-Moment Microphysics Scheme on Simulated Surface Precipitation and Storm Dynamics during a Low-Topped Supercell Case in Belgium. <i>Monthly Weather Review</i> , 2011, 139, 1131-1147.	1.4	29
95	Estimating scaled cloud optical thickness from SEVIRI by implementing a semi-analytical cloud retrieval algorithm. , 2010, , .		2
96	Impact of vegetation changes on a mesoscale convective system in West Africa. <i>Meteorology and Atmospheric Physics</i> , 2010, 107, 109-122.	2.0	10
97	A new method to estimate air-quality levels using a synoptic-regression approach. Part II: Future O ₃ concentrations. <i>Atmospheric Environment</i> , 2010, 44, 1356-1366.	4.1	10
98	A new method to estimate air-quality levels using a synoptic-regression approach. Part I: Present-day O ₃ and PM ₁₀ analysis. <i>Atmospheric Environment</i> , 2010, 44, 1341-1355.	4.1	37
99	Sensitivity of quantitative precipitation forecast to soil moisture initialization and microphysics parametrization. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2010, 136, 978-996.	2.7	18
100	An analysis of present and future ECHAM5 pressure fields using a classification of circulation patterns. <i>International Journal of Climatology</i> , 2009, 29, 1796-1810.	3.5	106
101	The effect of vegetation changes on precipitation and Mesoscale Convective Systems in the Sahel. <i>Climate Dynamics</i> , 2009, 33, 521-534.	3.8	23
102	The impact of weather and atmospheric circulation on O ₃ and PM ₁₀ levels at a rural mid-latitude site. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2695-2714.	4.9	137
103	Modeling the energy balance in Marseille: Sensitivity to roughness length parameterizations and thermal admittance. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
104	A first description of the Antarctic Peninsula Coastal Current. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 277-293.	1.4	106
105	Variability in the freshwater balance of northern Marguerite Bay, Antarctic Peninsula: Results from $\delta^{18}O$. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2008, 55, 309-322.	1.4	100
106	Characteristics of Summer Airflow over the Antarctic Peninsula in Response to Recent Strengthening of Westerly Circumpolar Winds. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 1396-1413.	1.7	84
107	The Relationship between the Southern Hemisphere Annular Mode and Antarctic Peninsula Summer Temperatures: Analysis of a High-Resolution Model Climatology. <i>Journal of Climate</i> , 2008, 21, 1649-1668.	3.2	56
108	The Influence of Soil and Vegetation Parameters on Atmospheric Variables Relevant for Convection in the Sahel. <i>Journal of Hydrometeorology</i> , 2008, 9, 461-476.	1.9	9

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109	The Impact of a Changing Southern Hemisphere Annular Mode on Antarctic Peninsula Summer Temperatures. <i>Journal of Climate</i> , 2006, 19, 5388-5404.	3.2	295
110	Model predicted low-level cloud parameters. <i>Atmospheric Research</i> , 2006, 82, 83-101.	4.1	9
111	Model predicted low-level cloud parameters. <i>Atmospheric Research</i> , 2006, 82, 55-82.	4.1	9
112	Changes in Antarctic temperature, wind and precipitation in response to the Antarctic Oscillation. <i>Annals of Glaciology</i> , 2004, 39, 119-126.	1.4	112
113	The near-surface wind field over the Antarctic continent. <i>International Journal of Climatology</i> , 2004, 24, 1973-1982.	3.5	59
114	Precipitation, sublimation, and snow drift in the Antarctic Peninsula region from a regional atmospheric model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	133
115	Model calculations of the age of firn air across the Antarctic continent. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 1365-1380.	4.9	39
116	Factors Controlling the Near-Surface Wind Field in Antarctica*. <i>Monthly Weather Review</i> , 2003, 131, 733-743.	1.4	109
117	Temperature Sensitivity of the Antarctic Surface Mass Balance in a Regional Atmospheric Climate Model. <i>Journal of Climate</i> , 2002, 15, 2758-2774.	3.2	23
118	The effect of temporal variations in the surface mass balance and temperature-inversion strength on the interpretation of ice-core signals. <i>Journal of Glaciology</i> , 2002, 48, 611-621.	2.2	32
119	Temporal variability of accumulation at Neumayer station, Antarctica, from stake array measurements and a regional atmospheric model. <i>Journal of Glaciology</i> , 2002, 48, 87-94.	2.2	9
120	Momentum Budget of the East Antarctic Atmospheric Boundary Layer: Results of a Regional Climate Model. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 3117-3129.	1.7	58
121	The spatial and temporal variability of the surface mass balance in Antarctica: results from a regional atmospheric climate model. <i>International Journal of Climatology</i> , 2002, 22, 1197-1217.	3.5	62
122	Impact of polar vortex variability on the wintertime low-level climate of east Antarctica: results of a regional climate model. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2002, 54, 485-496.	1.7	7
123	A model study on the relation between atmospheric boundary-layer dynamics and poleward atmospheric moisture transport in Antarctica. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2002, 54, 497-511.	1.7	13
124	Evaluation of a Regional Atmospheric Model Using Measurements of Surface Heat Exchange Processes from a Site in Antarctica. <i>Monthly Weather Review</i> , 1999, 127, 1994-2011.	1.4	49
125	Unsteady behaviour of a topography-modulated tripole. <i>Journal of Fluid Mechanics</i> , 1996, 307, 11-41.	3.4	32
126	Response of Wintertime Antarctic Temperatures to the Antarctic Oscillation: Results of a Regional Climate Model. <i>Antarctic Research Series</i> , 0, , 43-58.	0.2	28

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127	Integration Of Convection Permitting Climate Models By Means Of Typical and Extreme Years in Building Energy Simulations In A Context Of Climate Change. , 0, , .		0