

# Nicole MÃ¶lders

## List of Publications by Year in descending order

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41  
papers

838  
citations

394421

19  
h-index

501196

28  
g-index

44  
all docs

44  
docs citations

44  
times ranked

970  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Limits to Manage Air-Quality in Glacier Bay. Journal of Environmental Protection, 2016, 07, 1923-1955.	0.7	2
2	Assessment of WRF/Chem Simulated Vertical Distributions of Particulate Matter from the 2009 Minto Flats South Wildfire in Interior Alaska by CALIPSO Total Backscatter and Depolarization Measurements. Open Journal of Air Pollution, 2015, 04, 119-138.	1.4	5
3	Lectures in Meteorology. Springer Atmospheric Sciences, 2014, , .	0.3	27
4	Atmospheric Chemistry. Springer Atmospheric Sciences, 2014, , 223-286.	0.3	0
5	Climate and Climatology. Springer Atmospheric Sciences, 2014, , 449-535.	0.3	1
6	Clouds and Precipitation. Springer Atmospheric Sciences, 2014, , 107-148.	0.3	0
7	Investigations on the impact of single direct and indirect, and multiple emissionâ€“control measures on coldâ€“season nearâ€“surface PM <sub>2.5</sub> concentrations in Fairbanks, Alaska. Atmospheric Pollution Research, 2013, 4, 87-100.	3.8	10
8	Climateâ€“A New Open Access Journal Covering the Complex, Multi-Disciplinary Climate Research Challenge. Climate, 2013, 1, 1-3.	2.8	2
9	Assessment of cruiseâ€“ship activity influences on emissions, air quality, and visibility in Glacier Bay National Park. Atmospheric Pollution Research, 2013, 4, 435-445.	3.8	27
10	Research on Climate Change and Its Impacts Needs Freedom of Research. Climate, 2013, 1, 163-167.	2.8	0
11	Wood-Burning Device Changeout: Modeling the Impact on PM <sub>2.5</sub> Concentrations in a Remote Subarctic Urban Nonattainment Area. Advances in Meteorology, 2012, 2012, 1-12.	1.6	8
12	Potential Impacts of the Introduction of Low-Sulfur Fuel on Concentrations at Breathing Level in a Subarctic City. Advances in Meteorology, 2012, 2012, 1-16.	1.6	11
13	Assessment of WRF/Chem PM <sub>2.5</sub> forecasts using mobile and fixed location data from the Fairbanks, Alaska winter 2008/09 field campaign. Atmospheric Pollution Research, 2012, 3, 180-191.	3.8	30
14	Numerical investigations on the contribution of point source emissions to the PM <sub>2.5</sub> concentrations in Fairbanks, Alaska. Atmospheric Pollution Research, 2012, 3, 199-210.	3.8	10
15	Land-Use and Land-Cover Changes. Atmospheric and Oceanographic Sciences Library, 2012, , .	0.1	28
16	Potential impacts of an Emission Control Area on air quality in Alaska coastalÂ“regions. Atmospheric Environment, 2012, 50, 192-202.	4.1	11
17	Impact of Land-Cover and Land-Cover Changes. Atmospheric and Oceanographic Sciences Library, 2012, , 39-115.	0.1	6
18	Future Challenges. Atmospheric and Oceanographic Sciences Library, 2012, , 117-174.	0.1	0

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19	Investigations on meteorological conditions for elevated PM <sub>2.5</sub> in Fairbanks, Alaska. Atmospheric Research, 2011, 99, 39-49.	4.1	59
20	Assessment of WRF/Chem to simulate sub-Arctic boundary layer characteristics during low solar irradiation using radiosonde, SODAR, and surface data. Atmospheric Pollution Research, 2011, 2, 283-299.	3.8	28
21	Impacts of emission changes on sulfate aerosols in Alaska. Atmospheric Environment, 2011, 45, 3078-3090.	4.1	11
22	Influence of ship emissions on air quality and input of contaminants in southern Alaska National Parks and Wilderness Areas during the 2006 tourist season. Atmospheric Environment, 2010, 44, 1400-1413.	4.1	32
23	Comparison of Canadian Forest Fire Danger Rating System and National Fire Danger Rating System fire indices derived from Weather Research and Forecasting (WRF) model data for the June 2005 Interior Alaska wildfires. Atmospheric Research, 2010, 95, 290-306.	4.1	27
24	A case study on wintertime inversions in Interior Alaska with WRF. Atmospheric Research, 2010, 95, 314-332.	4.1	50
25	Theoretical Investigations on Potential Impacts of High-Latitude Volcanic Emissions of Heat, Aerosols and Water Vapor and their Interactions with Clouds and Precipitation. The Open Atmospheric Science Journal, 2010, 4, 24-44.	0.5	7
26	Theoretical Assessment of Uncertainty in Regional Averages due to Network Density and Design. Journal of Applied Meteorology and Climatology, 2009, 48, 1643-1666.	1.5	21
27	Impact of doubled CO <sub>2</sub> on the interaction between the global and regional water cycles in four study regions. Climate Dynamics, 2008, 30, 255-275.	3.8	7
28	Interaction of impacts of doubling CO <sub>2</sub> and changing regional land-cover on evaporation, precipitation, and runoff at global and regional scales. International Journal of Climatology, 2008, 28, 1653-1679.	3.5	20
29	Suitability of the Weather Research and Forecasting (WRF) Model to Predict the June 2005 Fire Weather for Interior Alaska. Weather and Forecasting, 2008, 23, 953-973.	1.4	48
30	Influence of wildfire induced land-cover changes on clouds and precipitation in Interior Alaska – A case study. Atmospheric Research, 2007, 84, 142-168.	4.1	37
31	Long-term evaluation of the Hydro-Thermodynamic Soil-Vegetation Scheme's frozen ground/permafrost component using observations at Barrow, Alaska. Journal of Geophysical Research, 2006, 111, .	3.3	32
32	Evaluation of Snow Depth and Soil Temperatures Predicted by the Hydro-Thermodynamic Soil-Vegetation Scheme Coupled with the Fifth-Generation Pennsylvania State University-NCAR Mesoscale Model. Journal of Applied Meteorology and Climatology, 2005, 44, 1827-1843.	1.7	14
33	Plant- and Soil-Parameter-Caused Uncertainty of Predicted Surface Fluxes. Monthly Weather Review, 2005, 133, 3498-3516.	1.4	23
34	Application of Gaussian Error Propagation Principles for Theoretical Assessment of Model Uncertainty in Simulated Soil Processes Caused by Thermal and Hydraulic Parameters. Journal of Hydrometeorology, 2005, 6, 1045-1062.	1.9	17
35	Impact of Urban Effects on Precipitation in High Latitudes. Journal of Hydrometeorology, 2004, 5, 409-429.	1.9	87
36	On the impact of explicitly predicted runoff on the simulated atmospheric response to small-scale land-use changes – an integrated modeling approach. Atmospheric Research, 2002, 63, 3-38.	4.1	24

#	ARTICLE	IF	CITATIONS
37	On the influence of surface heterogeneity on latent heat fluxes and stratus properties. Atmospheric Research, 2000, 54, 59-85.	4.1	14
38	Testing the effect of a two-way-coupling of a meteorological and a hydrologic model on the predicted local weather. Atmospheric Research, 1997, 45, 81-107.	4.1	20
39	Zum Einfluß von Bulk-Parametrisierungen der Wolkenmikrophysik auf die ¼ den Wasserkreislauf vorhergesagten relevanten Größen - Eine Fallstudie. Meteorologische Zeitschrift, 1997, 6, 21-32.	1.0	9
40	Numerical Investigations on the Influence of Subgrid-Scale Surface Heterogeneity on Evapotranspiration and Cloud Processes. Journal of Applied Meteorology and Climatology, 1996, 35, 782-795.	1.7	45
41	A comparison of two strategies on land surface heterogeneity used in a mesoscale beta meteorological model. Tellus, Series A: Dynamic Meteorology and Oceanography, 1996, 48, 733-749.	1.7	26