

Kerstin Schepanski

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

3,371
citations

159358

30
h-index

161609

54
g-index

96
all docs

96
docs citations

96
times ranked

3346
citing authors

#	ARTICLE	IF	CITATIONS
1	Dust mobilization and transport in the northern Sahara during SAMUM 2006 – a meteorological overview. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 12.	0.8	79
2	Regional Saharan dust modelling during the SAMUM 2006 campaign. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 61, 307.	0.8	48
3	Regional modelling of Saharan dust and biomass-burning smoke: Part 1: Model description and evaluation. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 781.	0.8	47
4	Earth, Wind, Fire, and Pollution: Aerosol Nutrient Sources and Impacts on Ocean Biogeochemistry. <i>Annual Review of Marine Science</i> , 2022, 14, 303-330.	5.1	48
5	Differences in the sediment composition of wind eroded sandy soils before and after fertilization with poultry manure. <i>Soil and Tillage Research</i> , 2022, 215, 105205.	2.6	9
6	A new Lagrangian in-time particle simulation module (Itpas v1) for atmospheric particle dispersion. <i>Geoscientific Model Development</i> , 2021, 14, 2205-2220.	1.3	4
7	Agricultural fertilization with poultry manure results in persistent environmental contamination with the pathogen <i>Clostridioides difficile</i> . <i>Environmental Microbiology</i> , 2021, 23, 7591-7602.	1.8	15
8	The Dust Emission Potential of Agricultural “Like Fires” Theoretical Estimates From Two Conceptually Different Dust Emission Parameterizations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034355.	1.2	6
9	Airborne bacterial emission fluxes from manure-fertilized agricultural soil. <i>Microbial Biotechnology</i> , 2020, 13, 1631-1647.	2.0	17
10	Enhanced tenacity of mycobacterial aerosols from necrotic neutrophils. <i>Scientific Reports</i> , 2020, 10, 9159.	1.6	7
11	North African mineral dust sources: new insights from a combined analysis based on 3D dust aerosol distributions, surface winds and ancillary soil parameters. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 15127-15146.	1.9	7
12	Investigation of atmospheric conditions fostering the spreading of legionnaires™ disease in outbreaks related to cooling towers. <i>International Journal of Biometeorology</i> , 2019, 63, 1347-1356.	1.3	6
13	The sensitivity of the colour of dust in MSG-SEVIRI Desert Dust infrared composite imagery to surface and atmospheric conditions. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6893-6911.	1.9	21
14	The Aerosols, Radiation and Clouds in Southern Africa Field Campaign in Namibia: Overview, Illustrative Observations, and Way Forward. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1277-1298.	1.7	59
15	Identification of Dust Sources in a Saharan Dust Hot-Spot and Their Implementation in a Dust-Emission Model. <i>Remote Sensing</i> , 2019, 11, 4.	1.8	23
16	Climate Feedback on Aerosol Emission and Atmospheric Concentrations. <i>Current Climate Change Reports</i> , 2018, 4, 1-10.	2.8	32
17	The influence of dust optical properties on the colour of simulated MSG-SEVIRI Desert Dust infrared imagery. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9681-9703.	1.9	18
18	Transport of Mineral Dust and Its Impact on Climate. <i>Geosciences (Switzerland)</i> , 2018, 8, 151.	1.0	123

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19	Wildfires as a source of airborne mineral dust – revisiting a conceptual model using large-eddy simulation (LES). <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11863-11884.	1.9	39
20	The Saharan Aerosol Long-Range Transport and Aerosol–Cloud-Interaction Experiment: Overview and Selected Highlights. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 1427-1451.	1.7	173
21	Millennial-scale fluctuations in Saharan dust supply across the decline of the African Humid Period. <i>Quaternary Science Reviews</i> , 2017, 171, 119-135.	1.4	53
22	Harmattan, Saharan heat low, and West African monsoon circulation: modulations on the Saharan dust outflow towards the North Atlantic. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10223-10243.	1.9	43
23	Satellite retrievals of dust aerosol over the Red Sea and the Persian Gulf (2005–2015). <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3987-4003.	1.9	34
24	Interannual variability in the Saharan dust source activation – Toward understanding the differences between 2007 and 2008. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 4538-4562.	1.2	18
25	New developments in the representation of Saharan dust sources in the aerosol–climate model ECHAM6-HAM2. <i>Geoscientific Model Development</i> , 2016, 9, 765-777.	1.3	22
26	Fennec dust forecast intercomparison over the Sahara in June 2011. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 6977-6995.	1.9	21
27	North African dust transport toward the western Mediterranean basin: atmospheric controls on dust source activation and transport pathways during June–July 2013. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14147-14168.	1.9	39
28	Overview of the Chemistry-Aerosol Mediterranean Experiment/Aerosol Direct Radiative Forcing on the Mediterranean Climate (ChArMEx/ADRIMED) summer 2013 campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 455-504.	1.9	110
29	Profiling of aerosol microphysical properties at several EARLINET/AERONET sites during the July 2012 ChArMEx/EMEP campaign. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7043-7066.	1.9	26
30	A process-based evaluation of dust-emitting winds in the CMIP5 simulation of HadGEM2-ES. <i>Climate Dynamics</i> , 2016, 46, 1107-1130.	1.7	23
31	Extensive Comparison Between a Set of European Dust Regional Models and Observations in the Western Mediterranean for the Summer 2012 Pre-ChArMEx/TRAQA Campaign. <i>Springer Proceedings in Complexity</i> , 2016, , 79-83.	0.2	4
32	The sensitivity of nocturnal low-level jets and near-surface winds over the Sahel to model resolution, initial conditions and boundary layer setup. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1442-1456.	1.0	23
33	Advances in understanding mineral dust and boundary layer processes over the Sahara from Fennec aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8479-8520.	1.9	57
34	Optical properties of long-range transported Saharan dust over Barbados as measured by dual-wavelength depolarization Raman lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11067-11080.	1.9	123
35	Derivation of an observation-based map of North African dust emission. <i>Aeolian Research</i> , 2015, 16, 153-162.	1.1	60
36	Spatial and temporal correlation length as a measure for the stationarity of atmospheric dust aerosol distribution. <i>Atmospheric Environment</i> , 2015, 122, 10-21.	1.9	13

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37	Mass deposition fluxes of Saharan mineral dust to the tropical northeast Atlantic Ocean: an intercomparison of methods. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2245-2266.	1.9	22
38	How important are atmospheric depressions and mobile cyclones for emitting mineral dust aerosol in North Africa?. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8983-9000.	1.9	57
39	The role of deep convection and nocturnal low-level jets for dust emission in summertime West Africa: Estimates from convection-permitting simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4385-4400.	1.2	139
40	Climatology of nocturnal low-level jets over North Africa and implications for modeling mineral dust emission. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6100-6121.	1.2	115
41	Comparing two years of Saharan dust source activation obtained by regional modelling and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2381-2390.	1.9	64
42	Characterization of dust emission from alluvial sources using aircraft observations and high-resolution modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7237-7259.	1.2	24
43	Multiple dust sources in the Sahara Desert: The importance of sand dunes. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	86
44	Comparison of satellite based observations of Saharan dust source areas. <i>Remote Sensing of Environment</i> , 2012, 123, 90-97.	4.6	165
45	Evidence for flash floods over deserts from loss of coherence in InSAR imagery. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	21
46	Dust: Small-scale processes with global consequences. <i>Eos</i> , 2011, 92, 241-242.	0.1	56
47	Assessment of the Met Office dust forecast model using observations from the GERBILS campaign. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1131-1148.	1.0	31
48	Soudano-Saharan depressions and their importance for precipitation and dust: a new perspective on a classical synoptic concept. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 1431-1445.	1.0	28
49	A model study of Saharan dust emissions and distributions during the SAMUM-1 campaign. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
50	Dust as a tipping element: The BodÃ© Depression, Chad. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20564-20571.	3.3	82
51	Remote sensing of mineral dust over land with MSG infrared channels: A new Bitemporal Mineral Dust Index. <i>Remote Sensing of Environment</i> , 2009, 113, 1853-1867.	4.6	38
52	Meteorological processes forcing Saharan dust emission inferred from MSG-EVIRI observations of subdaily dust source activation and numerical models. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	218
53	Simulations of convectively-driven density currents in the Atlas region using a regional model: Impacts on dust emission and sensitivity to horizontal resolution and convection schemes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	38
54	Numerical model simulation of the Saharan dust event of 6-11 March 2006 using the Regional Climate Model version 3 (RegCM3). <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	32

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55	The global distribution of mineral dust. IOP Conference Series: Earth and Environmental Science, 2009, 7, 012001.	0.2	50
56	Modelling mineral dust emissions. IOP Conference Series: Earth and Environmental Science, 2009, 7, 012006.	0.2	5
57	Saharan dust transport and deposition towards the tropical northern Atlantic. Atmospheric Chemistry and Physics, 2009, 9, 1173-1189.	1.9	141
58	Dust radiative feedback on Saharan boundary layer dynamics and dust mobilization. Geophysical Research Letters, 2008, 35, .	1.5	82
59	A case of extreme particulate matter concentrations over Central Europe caused by dust emitted over the southern Ukraine. Atmospheric Chemistry and Physics, 2008, 8, 997-1016.	1.9	85
60	A new Saharan dust source activation frequency map derived from MSG's SEVIRI IR channels. Geophysical Research Letters, 2007, 34, .	1.5	260