

Andreas H Fink

List of Publications by Year in descending order

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Version: 2024-02-01

129
papers

5,555
citations

66343

42
h-index

95266

68
g-index

163
all docs

163
docs citations

163
times ranked

5226
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2003 European summer heatwaves and drought -synoptic diagnosis and impacts. <i>Weather</i> , 2004, 59, 209-216.	0.7	374
2	The central European floods of August 2002: Part 1 – Rainfall periods and flood development. <i>Weather</i> , 2003, 58, 371-377.	0.7	208
3	Factors contributing to the development of extreme North Atlantic cyclones and their relationship with the NAO. <i>Climate Dynamics</i> , 2009, 32, 711-737.	3.8	191
4	The European storm Kyrill in January 2007: synoptic evolution, meteorological impacts and some considerations with respect to climate change. <i>Natural Hazards and Earth System Sciences</i> , 2009, 9, 405-423.	3.6	190
5	Rainfall over the African continent from the 19th through the 21st century. <i>Global and Planetary Change</i> , 2018, 165, 114-127.	3.5	184
6	Spatiotemporal variability of the relation between African Easterly Waves and West African Squall Lines in 1998 and 1999. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	176
7	Spatio-temporal characteristics of the recent rainfall recovery in West Africa. <i>International Journal of Climatology</i> , 2015, 35, 4589-4605.	3.5	167
8	The –Year– of Tropical Convection (May 2008–April 2010): Climate Variability and Weather Highlights. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 1189-1218.	3.3	164
9	Progress in regional downscaling of west African precipitation. <i>Atmospheric Science Letters</i> , 2011, 12, 75-82.	1.9	146
10	Three extreme storms over Europe in December 1999. <i>Weather</i> , 2001, 56, 70-80.	0.7	142
11	The possible role of local air pollution in climate change in West Africa. <i>Nature Climate Change</i> , 2015, 5, 815-822.	18.8	109
12	The central European floods of August 2002: Part 2 -Synoptic causes and considerations with respect to climatic change. <i>Weather</i> , 2003, 58, 434-442.	0.7	108
13	Rainfall Types in the West African Sudanian Zone during the Summer Monsoon 2002. <i>Monthly Weather Review</i> , 2006, 134, 2143-2164.	1.4	92
14	The Amma Radiosonde Program and its Implications for the Future of Atmospheric Monitoring Over Africa. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 1015-1028.	3.3	87
15	Development of a new version of the Liverpool Malaria Model. I. Refining the parameter settings and mathematical formulation of basic processes based on a literature review. <i>Malaria Journal</i> , 2011, 10, 35.	2.3	87
16	Dry and wet periods in the northwestern Maghreb for present day and future climate conditions. <i>Meteorologische Zeitschrift</i> , 2008, 17, 533-551.	1.0	86
17	The DACCIWA Project: Dynamics–Aerosol–Chemistry–Cloud Interactions in West Africa. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1451-1460.	3.3	84
18	Processes determining heat waves across different European climates. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 2973-2989.	2.7	84

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19	Meteorological characteristics and potential causes of the 2007 flood in sub-Saharan Africa. <i>International Journal of Climatology</i> , 2011, 31, 1908-1926.	3.5	81
20	The Impact of Regional Climate Change on Malaria Risk due to Greenhouse Forcing and Land-Use Changes in Tropical Africa. <i>Environmental Health Perspectives</i> , 2012, 120, 77-84.	6.0	80
21	Synoptic and dynamic aspects of an extreme springtime Saharan dust outbreak. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 1153-1177.	2.7	76
22	Statistical relationship between remote climate indices and West African monsoon variability. <i>International Journal of Climatology</i> , 2014, 34, 3348-3367.	3.5	75
23	Diagnosing the influence of diabatic processes on the explosive deepening of extratropical cyclones. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	73
24	Sahel dust zone and synoptic background. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	65
25	Ultra-low clouds over the southern West African monsoon region. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	63
26	A meteorological and chemical overview of the DACCIWA field campaign in West Africa in June–July 2016. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 10893-10918.	4.9	62
27	The Dynamics of Aerosol–Chemistry–Cloud Interactions in West Africa Field Campaign: Overview and Research Highlights. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 83-104.	3.3	62
28	Skill of Global Raw and Postprocessed Ensemble Predictions of Rainfall over Northern Tropical Africa. <i>Weather and Forecasting</i> , 2018, 33, 369-388.	1.4	62
29	Radiosonde humidity bias correction over the West African region for the special AMMA reanalysis at ECMWF. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 595-617.	2.7	61
30	Three Late Summer/Early Autumn Cases of Tropical–Extratropical Interactions Causing Precipitation in Northwest Africa. <i>Monthly Weather Review</i> , 2003, 131, 116-135.	1.4	60
31	Rainfall types over southern West Africa: Objective identification, climatology and synoptic environment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 1628-1648.	2.7	57
32	Why Do Global Climate Models Struggle to Represent Low-Level Clouds in the West African Summer Monsoon?. <i>Journal of Climate</i> , 2017, 30, 1665-1687.	3.2	56
33	Nocturnal Continental Low-Level Stratus over Tropical West Africa: Observations and Possible Mechanisms Controlling Its Onset. <i>Monthly Weather Review</i> , 2012, 140, 1794-1809.	1.4	55
34	Dry-Season Precipitation in Tropical West Africa and Its Relation to Forcing from the Extratropics. <i>Monthly Weather Review</i> , 2008, 136, 3579-3596.	1.4	54
35	Assessing recovery and change in West Africa's rainfall regime from a 161-year record. <i>International Journal of Climatology</i> , 2018, 38, 3770-3786.	3.5	54
36	Progress in understanding of weather systems in West Africa. <i>Atmospheric Science Letters</i> , 2011, 12, 7-12.	1.9	52

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37	Satellite-based climatology of low-level continental clouds in southern West Africa during the summer monsoon season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1186-1201.	3.3	52
38	Numerical simulation of a continental-scale Saharan dust event. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
39	Linking Northern Hemisphere temperature extremes to Rossby wave packets. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018, 144, 553-566.	2.7	51
40	An overview of the diurnal cycle of the atmospheric boundary layer during the West African monsoon season: results from the 2016 observational campaign. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 2913-2928.	4.9	48
41	Extreme Precipitation in the West African Cities of Dakar and Ouagadougou: Atmospheric Dynamics and Implications for Flood Risk Assessments. <i>Journal of Hydrometeorology</i> , 2017, 18, 2937-2957.	1.9	46
42	Formation and Maintenance of Nocturnal Low-Level Stratus over the Southern West African Monsoon Region during AMMA 2006. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2337-2355.	1.7	45
43	Evaluating Satellite-Based Diurnal Cycles of Precipitation in the African Tropics. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 23-39.	1.5	45
44	Development of a new version of the Liverpool Malaria Model. II. Calibration and validation for West Africa. <i>Malaria Journal</i> , 2011, 10, 62.	2.3	43
45	Revisiting interannual to decadal teleconnections influencing seasonal rainfall in the Greater Horn of Africa during the 20th century. <i>International Journal of Climatology</i> , 2019, 39, 2765-2785.	3.5	43
46	The South Atlantic Anticyclone as a key player for the representation of the tropical Atlantic climate in coupled climate models. <i>Climate Dynamics</i> , 2017, 48, 4051-4069.	3.8	42
47	A Process-Based Validation of GPM IMERG and Its Sources Using a Mesoscale Rain Gauge Network in the West African Forest Zone. <i>Journal of Hydrometeorology</i> , 2020, 21, 729-749.	1.9	38
48	A Systematic Comparison of Tropical Waves over Northern Africa. Part I: Influence on Rainfall. <i>Journal of Climate</i> , 2019, 32, 1501-1523.	3.2	35
49	An extreme precipitation event in southern Morocco in spring 2002 and some hydrological implications. <i>Weather</i> , 2003, 58, 377-387.	0.7	34
50	On the Potential Causes of the Nonstationary Correlations between West African Precipitation and Atlantic Hurricane Activity. <i>Journal of Climate</i> , 2010, 23, 5437-5456.	3.2	33
51	The 2007 flood in the Sahel: causes, characteristics and its presentation in the media and FEWS NET. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 313-325.	3.6	33
52	An Objective Climatology of Tropical Plumes. <i>Journal of Climate</i> , 2013, 26, 5044-5060.	3.2	33
53	Earlier Seasonal Onset of Intense Mesoscale Convective Systems in the Congo Basin Since 1999. <i>Geophysical Research Letters</i> , 2018, 45, 13,458.	4.0	33
54	Interdecadal Changes in the Leading Ocean Forcing of Sahelian Rainfall Interannual Variability: Atmospheric Dynamics and Role of Multidecadal SST Background. <i>Journal of Climate</i> , 2018, 31, 6687-6710.	3.2	32

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55	Aspects of the January 1995 flood in Germany. <i>Weather</i> , 1996, 51, 34-39.	0.7	30
56	A new and flexible rainy season definition: Validation for the Greater Horn of Africa and application to rainfall trends. <i>International Journal of Climatology</i> , 2019, 39, 989-1012.	3.5	30
57	Debilitating floods in the Sahel are becoming frequent. <i>Journal of Hydrology</i> , 2021, 599, 126362.	5.4	30
58	Bias reduction in decadal predictions of West African monsoon rainfall using regional climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1715-1735.	3.3	29
59	Extraordinary snow accumulations over parts of central Europe during the winter of 2005/06 and weather-related hazards. <i>Weather</i> , 2007, 62, 16-21.	0.7	28
60	Prediction of Dry-Season Precipitation in Tropical West Africa and Its Relation to Forcing from the Extratropics. <i>Weather and Forecasting</i> , 2009, 24, 1064-1084.	1.4	27
61	Operational meteorology in West Africa: observational networks, weather analysis and forecasting. <i>Atmospheric Science Letters</i> , 2011, 12, 135-141.	1.9	25
62	Secondary Cyclogenesis along an Occluded Front Leading to Damaging Wind Gusts: Windstorm Kyrill, January 2007. <i>Monthly Weather Review</i> , 2015, 143, 1417-1437.	1.4	25
63	Mean State and Wave Disturbances during Phases I, II, and III of GATE Based on ERA-40. <i>Monthly Weather Review</i> , 2004, 132, 1661-1683.	1.4	24
64	Nocturnal stratiform cloudiness during the West African monsoon. <i>Meteorology and Atmospheric Physics</i> , 2007, 95, 73-86.	2.0	24
65	Diurnal cycle of coastal anthropogenic pollutant transport over southern West Africa during the DACCIWA campaign. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 473-497.	4.9	24
66	The potential effects of climate change on malaria transmission in Africa using bias-corrected regionalised climate projections and a simple malaria seasonality model. <i>Climatic Change</i> , 2013, 120, 741-754.	3.6	23
67	Large-scale Rossby wave and synoptic-scale dynamic analyses of the unusually late 2016 heatwave over Europe. <i>Weather</i> , 2018, 73, 275-283.	0.7	22
68	A Lagrangian analysis of upper-tropospheric anticyclones associated with heat waves in Europe. <i>Weather and Climate Dynamics</i> , 2020, 1, 191-206.	3.5	22
69	Aerosol distribution in the northern Gulf of Guinea: local anthropogenic sources, long-range transport, and the role of coastal shallow circulations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12363-12389.	4.9	21
70	Tropical Cyclones. <i>Die Naturwissenschaften</i> , 1998, 85, 482-493.	1.6	20
71	A Systematic Comparison of Tropical Waves over Northern Africa. Part II: Dynamics and Thermodynamics. <i>Journal of Climate</i> , 2019, 32, 2605-2625.	3.2	20
72	Moroccan Climate in the Present and Future: Combined View from Observational Data and Regional Climate Scenarios. <i>Environmental Science</i> , 2008, , 29-45.	0.1	19

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73	Modulation of Daily Rainfall in Southern Vietnam by the Madden-Julian Oscillation and Convectively Coupled Equatorial Waves. <i>Journal of Climate</i> , 2016, 29, 5801-5820.	3.2	19
74	Interactions between Convection and a Moist Vortex Associated with an Extreme Rainfall Event over Southern West Africa. <i>Monthly Weather Review</i> , 2019, 147, 2309-2328.	1.4	19
75	An 18-year climatology of derechos in Germany. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1335-1351.	3.6	19
76	What's on the 5th IPCC Report for West Africa?. , 2016, , 7-23.		18
77	Assessing the predictability of Medicanes in ECMWF ensemble forecasts using an object-based approach. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1202-1217.	2.7	18
78	Validation of Satellite Rainfall Estimates over Equatorial East Africa. <i>Journal of Hydrometeorology</i> , 2022, 23, 129-151.	1.9	18
79	Three MCS Cases Occurring in Different Synoptic Environments in the Sub-Saharan Wet Zone during the 2002 West African Monsoon. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2369-2382.	1.7	17
80	A weather system perspective on winter-spring rainfall variability in southeastern Australia during El Niño. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2614-2633.	2.7	17
81	Skill of Global Raw and Postprocessed Ensemble Predictions of Rainfall in the Tropics. <i>Weather and Forecasting</i> , 2020, 35, 2367-2385.	1.4	17
82	An evaluation of operational and research weather forecasts for southern West Africa using observations from the DACCWA field campaign in June-July 2016. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1121-1148.	2.7	16
83	Three-dimensional pathways of dust over the Sahara during summer 2011 as revealed by new Infrared Atmospheric Sounding Interferometer observations. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 2731-2755.	2.7	16
84	The January 1995 flood in Germany: Meteorological versus hydrological causes. <i>Physics and Chemistry of the Earth</i> , 1995, 20, 439-444.	0.3	15
85	An Objective Detection Method for Convective Cold Pool Events and Its Application to Northern Africa. <i>Monthly Weather Review</i> , 2015, 143, 5055-5072.	1.4	15
86	The role of low-level clouds in the West African monsoon system. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 1623-1647.	4.9	15
87	Anatomy of an observed African easterly wave in July 2006. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2011, 137, 923-933.	2.7	13
88	Predictability of the rainy season onset date in Central Highlands of Vietnam. <i>International Journal of Climatology</i> , 2020, 40, 3072-3086.	3.5	13
89	Meteorological causes of the catastrophic rains of October/November 2019 in equatorial Africa. <i>Global and Planetary Change</i> , 2022, 208, 103687.	3.5	13
90	The intricacies of identifying equatorial waves. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2022, 148, 2814-2852.	2.7	12

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91	Synoptic-Dynamic Analysis of Early Dry-Season Rainfall Events in the Vietnamese Central Highlands. <i>Monthly Weather Review</i> , 2016, 144, 1509-1527.	1.4	11
92	Decadal and multi-year predictability of the West African monsoon and the role of dynamical downscaling. <i>Meteorologische Zeitschrift</i> , 2017, 26, 363-377.	1.0	11
93	The Dynamics of an Extreme Precipitation Event in Northeastern Vietnam in 2015 and Its Predictability in the ECMWF Ensemble Prediction System. <i>Weather and Forecasting</i> , 2017, 32, 1041-1056.	1.4	10
94	The influence of DACCWA radiosonde data on the quality of ECMWF analyses and forecasts over southern West Africa. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 1719-1739.	2.7	10
95	Demarcating the rainfed unproductive zones in the African Sahel and Great Green Wall regions. <i>Land Degradation and Development</i> , 2021, 32, 1400-1411.	3.9	10
96	Towards a more comprehensive assessment of the intensity of historical European heat waves (1979â€“2019). <i>Atmospheric Science Letters</i> , 2022, 23, .	1.9	10
97	Tropical cyclones, 6?25 day oscillations, and tropical-extratropical interaction over the northwestern Pacific. <i>Meteorology and Atmospheric Physics</i> , 1998, 68, 151-169.	2.0	9
98	Tropical Cyclone Environments over the Northeastern and Northwestern Pacific Based on ERA-15 Analyses. <i>Monthly Weather Review</i> , 2001, 129, 1928-1948.	1.4	9
99	Statistical Forecasts for the Occurrence of Precipitation Outperform Global Models over Northern Tropical Africa. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091022.	4.0	9
100	Climatology of coastal wind regimes in Benin. <i>Meteorologische Zeitschrift</i> , 2019, 28, 23-39.	1.0	8
101	Modulation of Intraseasonal (25-70 Day) Processes by the Superimposed ENSO Cycle Across the Pacific Basin. <i>Meteorology and Atmospheric Physics</i> , 1999, 70, 15-27.	2.0	7
102	The predictability of precipitation episodes during the West African dry season. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1047-1058.	2.7	7
103	Tropical Transition of Hurricane Chris (2012) over the North Atlantic Ocean: A Multiscale Investigation of Predictability. <i>Monthly Weather Review</i> , 2019, 147, 951-970.	1.4	7
104	Using seasonal rainfall clusters to explain the interannual variability of the rain belt over the Greater Horn of Africa. <i>International Journal of Climatology</i> , 2021, 41, E1717.	3.5	7
105	The potential of increasing man-made air pollution to reduce rainfall over southern West Africa. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 35-55.	4.9	7
106	Use of a Rain Gauge Network to Infer the Influence of Environmental Factors on the Propagation of Quasi-Linear Convective Systems in West Africa. <i>Weather and Forecasting</i> , 2007, 22, 1016-1030.	1.4	6
107	Weakening and moistening of the summertime Saharan heat low through convective cold pools from the Atlas Mountains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3907-3928.	3.3	6
108	The Ewim Nimdie Summer School Series in Ghana: Capacity Building in Meteorological Education and Researchâ€”Lessons Learned and Future Prospects. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 595-601.	3.3	5

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109	Development of dynamical weather-disease models to project and forecast malaria in Africa. <i>Malaria Journal</i> , 2012, 11, .	2.3	5
110	Monthly Entomological Inoculation Rate Data for Studying the Seasonality of Malaria Transmission in Africa. <i>Data</i> , 2020, 5, 31.	2.3	5
111	Synoptic timescale linkage between midlatitude winter troughs Sahara temperature patterns and northern Congo rainfall: A building block of regional climate variability. <i>International Journal of Climatology</i> , 2021, 41, 3153-3173.	3.5	5
112	Waves to Weather: Exploring the Limits of Predictability of Weather. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E2151-E2164.	3.3	5
113	Statistical-Dynamical downscaling of precipitation for Vietnam: methodology and evaluation for the recent climate. <i>International Journal of Climatology</i> , 2017, 37, 4211-4228.	3.5	4
114	The First Forecasters™ Handbook for West Africa. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2343-2351.	3.3	4
115	Birth of the Biscane. <i>Weather</i> , 2017, 72, 236-241.	0.7	3
116	Impacts of Global Change. , 2010, , 12-28.		3
117	Characterization of Sunshine Duration in Western Equatorial Africa: In Situ Measurements versus SARAH-2 Satellite Estimates. <i>Journal of Applied Meteorology and Climatology</i> , 2022, 61, 185-201.	1.5	3
118	Sensitivity of low-level clouds and precipitation to anthropogenic aerosol emission in southern West Africa: a DACCWA case study. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3251-3273.	4.9	3
119	Tropical cyclone environments over the northeastern Pacific, including mid-level dry intrusion cases. <i>Meteorology and Atmospheric Physics</i> , 2003, 84, 293-315.	2.0	2
120	The devil in the detail of storms. <i>Environmental Research Letters</i> , 2018, 13, 051001.	5.2	2
121	Statistical-Dynamical Forecasting of Sub-Seasonal North Atlantic Tropical Cyclone Occurrence. <i>Weather and Forecasting</i> , 2021, , .	1.4	2
122	The Performance of ECMWF sub-seasonal forecasts to predict the Rainy Season Onset Dates in Vietnam. <i>Weather and Forecasting</i> , 2021, , .	1.4	2
123	Atmosphere. , 2010, , 132-163.		1
124	A novel method for objective identification of 3-D potential vorticity anomalies. <i>Geoscientific Model Development</i> , 2022, 15, 4447-4468.	3.6	1
125	Retreating Alpine glacier. <i>Weather</i> , 2019, 74, 409-410.	0.7	0
126	An IMERG-Based Optimal Extended Probabilistic Climatology (EPC) as a Benchmark Ensemble Forecast for Precipitation in the Tropics and Subtropics. <i>Weather and Forecasting</i> , 2021, , .	1.4	0

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127	Impacts of Global Change in Benin. , 2010, , 450-561.		0
128	Measurement concepts. , 2010, , 104-131.		0
129	Local-scale rainy season onset detection: A new approach based on principal component analysis and its application to Vietnam. International Journal of Climatology, 0, ,	3.5	0