

# Richard Washington

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8388307/publications.pdf>

Version: 2024-02-01

111  
papers

7,323  
citations

53660

45  
h-index

60497

81  
g-index

114  
all docs

114  
docs citations

114  
times ranked

6836  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dust-Storm Source Areas Determined by the Total Ozone Monitoring Spectrometer and Surface Observations. <i>Annals of the American Association of Geographers</i> , 2003, 93, 297-313.	3.0	590
2	North African dust emissions and transport. <i>Earth-Science Reviews</i> , 2006, 79, 73-100.	4.0	551
3	The BodÃ©le depression: a single spot in the Sahara that provides most of the mineral dust to the Amazon forest. <i>Environmental Research Letters</i> , 2006, 1, 014005.	2.2	278
4	Multiple episodes of aridity in southern Africa since the last interglacial period. <i>Nature</i> , 1997, 388, 154-158.	13.7	227
5	Atmospheric controls on mineral dust emission from the BodÃ©le Depression, Chad: The role of the low level jet. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	219
6	African Climate Change: Taking the Shorter Route. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, 1355-1366.	1.7	205
7	Dust and the low-level circulation over the BodÃ©le Depression, Chad: Observations from BoDEx 2005. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	191
8	Atmospheric controls on the annual cycle of North African dust. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	190
9	Congo Basin rainfall climatology: can we believe the climate models?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120296.	1.8	177
10	Characterizing half-a-degree difference: a review of methods for identifying regional climate responses to global warming targets. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2017, 8, e457.	3.6	177
11	Optical properties of Saharan dust aerosol and contribution from the coarse mode as measured during the Fennec 2011 aircraft campaign. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 303-325.	1.9	172
12	Issues in the interpretation of climate model ensembles to inform decisions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2163-2177.	1.6	150
13	Mineral dust emission from the BodÃ©le Depression, northern Chad, during BoDEx 2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	149
14	Changes in African temperature and precipitation associated with degrees of global warming. <i>Climatic Change</i> , 2013, 117, 859-872.	1.7	149
15	Agent-based social simulation: a method for assessing the impact of seasonal climate forecast applications among smallholder farmers. <i>Agricultural Systems</i> , 2005, 83, 1-26.	3.2	132
16	Circulation anomalies associated with tropical-temperate troughs in southern Africa and the south west Indian Ocean. <i>Climate Dynamics</i> , 1999, 15, 937-951.	1.7	124
17	Meteorology and dust in the central Sahara: Observations from Fennec supersite during the June 2011 Intensive Observation Period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 4069-4089.	1.2	123
18	Extreme wet years over southern Africa: Role of Indian Ocean sea surface temperatures. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	113

#	ARTICLE	IF	CITATIONS
19	Chapter 1 Impacts of the Oceans on Climate Change. <i>Advances in Marine Biology</i> , 2009, 56, 1-150.	0.7	110
20	Development of badlands and gullies in the Sneeuberg, Great Karoo, South Africa. <i>Catena</i> , 2003, 50, 165-184.	2.2	109
21	Regional Model Simulations of the BodÃ©Ã© Low-Level Jet of Northern Chad during the BodÃ©Ã© Dust Experiment (BoDEx 2005). <i>Journal of Climate</i> , 2008, 21, 995-1012.	1.2	95
22	Future Climate Change of the Subtropical North Atlantic: Implications for the Cloud Forests of Tenerife. <i>Climatic Change</i> , 2004, 65, 103-123.	1.7	93
23	Culture or climate? The relative influences of past processes on the composition of the lowland Congo rainforest. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 229-242.	1.8	93
24	Recent observed climate change over the Arabian Peninsula. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	93
25	Tropical-temperate links in southern African and Southwest Indian Ocean satellite-derived daily rainfall. <i>International Journal of Climatology</i> , 1999, 19, 1601-1616.	1.5	89
26	Atmospheric dust modeling from meso to global scales with the online NMMB/BSC-Dust model â€œ Part 2: Experimental campaigns in Northern Africa. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2933-2958.	1.9	87
27	Multi-agent modelling of climate outlooks and food security on a community garden scheme in Limpopo, South Africa. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2005, 360, 2183-2194.	1.8	82
28	Dust as a tipping element: The BodÃ©Ã© Depression, Chad. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20564-20571.	3.3	82
29	Modelling soil dust aerosol in the BodÃ©Ã© depression during the BoDEx campaign. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4345-4359.	1.9	79
30	Dust-raising in the dustiest place on earth. <i>Geomorphology</i> , 2007, 92, 25-37.	1.1	79
31	Circulation controls on southern African precipitation in coupled models: The role of the Angola Low. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 861-877.	1.2	79
32	Water vapour transport associated with tropicalâ€œtemperate trough systems over southern Africa and the southwest Indian Ocean. <i>International Journal of Climatology</i> , 2004, 24, 555-568.	1.5	78
33	Brown locust outbreaks and climate variability in southern Africa. <i>Journal of Applied Ecology</i> , 2002, 39, 31-42.	1.9	76
34	Changes in climate extremes in the Arabian Peninsula: analysis of daily data. <i>International Journal of Climatology</i> , 2014, 34, 1329-1345.	1.5	75
35	The impact of convective cold pool outflows on model biases in the Sahara. <i>Geophysical Research Letters</i> , 2013, 40, 1647-1652.	1.5	72
36	Climate variability in central equatorial Africa: Influence from the Atlantic sector. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	71

#	ARTICLE	IF	CITATIONS
37	Evaluating Climate Models with an African Lens. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 313-336.	1.7	71
38	Seasonal Forecasting of African Rainfall: Prediction, Responses and Household Food Security. <i>Geographical Journal</i> , 1999, 165, 255.	1.6	59
39	Dust emission and transport mechanisms in the central Sahara: Fennec ground-based observations from Bordj Badji Mokhtar, June 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6212-6232.	1.2	59
40	An automated dust detection using SEVIRI: A multiyear climatology of summertime dustiness in the central and western Sahara. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	57
41	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
42	Implications of global warming for the climate of African rainforests. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20120298.	1.8	54
43	United Kingdom and Ireland precipitation variability and the North Atlantic sea-level pressure field. <i>International Journal of Climatology</i> , 2001, 21, 939-959.	1.5	52
44	Meteorological and dust aerosol conditions over the western Saharan region observed at Fennec Supersite during the intensive observation period in June 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8426-8447.	1.2	52
45	A new high-resolution central and western Saharan summertime dust source map from automated satellite dust plume tracking. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6981-6995.	1.2	52
46	Detection of a lightning influence on tropical tropospheric ozone. <i>Geophysical Research Letters</i> , 2000, 27, 1639-1642.	1.5	51
47	Estimating aerodynamic roughness over complex surface terrain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,948.	1.2	51
48	The low-level jet dust emission mechanism in the central Sahara: Observations from Bordj-Badji Mokhtar during the June 2011 Fennec Intensive Observation Period. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 2990-3015.	1.2	44
49	Process-based assessment of an ensemble of climate projections for West Africa. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 1221-1238.	1.2	44
50	Characterizing the Synoptic Expression of the Angola Low. <i>Journal of Climate</i> , 2018, 31, 7147-7165.	1.2	44
51	Seasonal Maize Forecasting for South Africa and Zimbabwe Derived from an Agroclimatological Model. <i>Journal of Applied Meteorology and Climatology</i> , 2000, 39, 1473-1479.	1.7	43
52	Seasonal Forecasting for Climate Hazards: Prospects and Responses. <i>Natural Hazards</i> , 2001, 23, 171-196.	1.6	41
53	The Fennec Automatic Weather Station (AWS) Network: Monitoring the Saharan Climate System. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 709-724.	0.5	39
54	Quantifying particle size and turbulent scale dependence of dust flux in the Sahara using aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7577-7598.	1.2	35

#	ARTICLE	IF	CITATIONS
55	A Process-Based Assessment of CMIP5 Rainfall in the Congo Basin: The September–November Rainy Season. <i>Journal of Climate</i> , 2018, 31, 7417-7439.	1.2	35
56	Testing the performance of state-of-the-art dust emission schemes using DO4Models field data. <i>Geoscientific Model Development</i> , 2015, 8, 341-362.	1.3	34
57	Systematic Climate Model Rainfall Biases over Southern Africa: Links to Moisture Circulation and Topography. <i>Journal of Climate</i> , 2018, 31, 7533-7548.	1.2	34
58	The spatial and temporal characteristics of TOMS AI over the Tarim Basin, China. <i>Atmospheric Environment</i> , 2009, 43, 1106-1115.	1.9	32
59	Northern hemisphere teleconnection indices and the mass balance of Svalbard glaciers. <i>International Journal of Climatology</i> , 2000, 20, 473-487.	1.5	31
60	What determines perceived value of seasonal climate forecasts? A theoretical analysis. <i>Global Environmental Change</i> , 2011, 21, 209-218.	3.6	31
61	The dynamism of salt crust patterns on playas. <i>Geology</i> , 2015, 43, 31-34.	2.0	31
62	A detailed characterization of the Saharan dust collected during the Fennec campaign in 2011: in situ ground-based and laboratory measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1023-1043.	1.9	30
63	African Low-Level Jets and Their Importance for Water Vapor Transport and Rainfall. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090999.	1.5	30
64	The Saharan heat low and moisture transport pathways in the central Sahara—Multi-aircraft observations and Africa–LAM evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 4417-4442.	1.2	29
65	Arctic oscillation and the interannual variability of dust emissions from the Tarim Basin: a TOMS AI based study. <i>Climate Dynamics</i> , 2010, 35, 511-522.	1.7	26
66	Measurements of windblown dust characteristics and ocean fertilization potential: The ephemeral river valleys of Namibia. <i>Aeolian Research</i> , 2017, 29, 30-41.	1.1	26
67	On the Likelihood of Tropical–Extratropical Cloud Bands in the South Indian Convergence Zone during ENSO Events. <i>Journal of Climate</i> , 2018, 31, 2797-2817.	1.2	26
68	Convection-Permitting Regional Climate Change Simulations for Understanding Future Climate and Informing Decision-Making in Africa. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1206-E1223.	1.7	26
69	Drylines in Southern Africa: Rediscovering the Congo Air Boundary. <i>Journal of Climate</i> , 2019, 32, 8223-8242.	1.2	25
70	Contrasting controls on Congo Basin evaporation at the two rainfall peaks. <i>Climate Dynamics</i> , 2021, 56, 1609-1624.	1.7	25
71	Climate–surface–pore-water interactions on a salt crusted playa: implications for crust pattern and surface roughness development measured using terrestrial laser scanning. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 738-753.	1.2	24
72	African Climate Change Uncertainty in Perturbed Physics Ensembles: Implications of Global Warming to 4°C and Beyond*. <i>Journal of Climate</i> , 2014, 27, 4677-4692.	1.2	23

#	ARTICLE	IF	CITATIONS
73	Climate variability affects water-energy-food infrastructure performance in East Africa. <i>One Earth</i> , 2021, 4, 397-410.	3.6	23
74	Mesoscale modeling of aeolian dust emission during the BoDEX 2005 experiment. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	22
75	Deep Convection over Africa: Annual Cycle, ENSO, and Trends in the Hotspots. <i>Journal of Climate</i> , 2019, 32, 8791-8811.	1.2	22
76	Climate change in the Congo Basin: processes related to wetting in the December–February dry season. <i>Climate Dynamics</i> , 2019, 53, 3583-3602.	1.7	21
77	African Easterly Jet South: control, maintenance mechanisms and link with Southern subtropical waves. <i>Climate Dynamics</i> , 2020, 54, 1539-1552.	1.7	21
78	Dust detection from ground-based observations in the summer global dust maximum: Results from Fennec 2011 and 2012 and implications for modeling and field observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 897-916.	1.2	20
79	Stronger Local Overturning in Convective-Permitting Regional Climate Model Improves Simulation of the Subtropical Annual Cycle. <i>Geophysical Research Letters</i> , 2018, 45, 11,334.	1.5	20
80	Tropical Lows in Southern Africa: Tracks, Rainfall Contributions, and the Role of ENSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11009-11032.	1.2	18
81	Representation of the Indian Ocean Walker circulation in climate models and links to Kenyan rainfall. <i>International Journal of Climatology</i> , 2021, 41, E616.	1.5	18
82	Quantifying chaos in the atmosphere. <i>Progress in Physical Geography</i> , 2000, 24, 499-514.	1.4	17
83	Intraseasonal variability and atmospheric controls on daily dust occurrence frequency over the central and western Sahara during the boreal summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 12,915.	1.2	17
84	A 14-Year Climatology of Saharan Dust Emission Mechanisms Inferred From Automatically Tracked Plumes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9665-9690.	1.2	17
85	Controls on the Diversity in Climate Model Projections of Early Summer Drying over Southern Africa. <i>Journal of Climate</i> , 2019, 32, 3707-3725.	1.2	13
86	Variability of the Turkana Low-Level Jet in Reanalysis and Models: Implications for Rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034154.	1.2	13
87	Evaluation of Evaporation Climatology for the Congo Basin Wet Seasons in 11 Global Climate Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD030619.	1.2	13
88	Characteristics of summertime daily rainfall variability over South America and the South Atlantic Convergence Zone. <i>Meteorology and Atmospheric Physics</i> , 2003, 83, 89-108.	0.9	12
89	Satellite-Derived Characteristics of Saharan Cold Pool Outflows During Boreal Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033387.	1.2	12
90	Future southern African summer rainfall variability related to a southwest Indian Ocean dipole in HadCM3. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	11

#	ARTICLE	IF	CITATIONS
91	Tracing Future Spring and Summer Drying in Southern Africa to Tropical Lows and the Congo Air Boundary. <i>Journal of Climate</i> , 2020, 33, 6205-6228.	1.2	11
92	A Simple Method to Retrieve 3-Hourly Estimates of Global Tropical and Subtropical Precipitation from International Satellite Cloud Climatology Program (ISCCP) D1 Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999, 16, 146-155.	0.5	10
93	Sensitivity of projected climate impacts to climate model weighting: multi-sector analysis in eastern Africa. <i>Climatic Change</i> , 2021, 164, 1.	1.7	10
94	The Limpopo Low-Level Jet: Mean Climatology and Role in Water Vapor Transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034364.	1.2	10
95	Extreme Indian Ocean dipole and rainfall variability over Central Africa. <i>International Journal of Climatology</i> , 2022, 42, 5255-5272.	1.5	10
96	Sensitivity of desert dust emissions to model horizontal grid spacing during the BodÃ© Dust Experiment 2005. <i>Atmospheric Environment</i> , 2012, 50, 377-380.	1.9	9
97	Evaluating the CMIP5 ensemble in Ethiopia: Creating a reduced ensemble for rainfall and temperature in Northwest Ethiopia and the Awash basin. <i>International Journal of Climatology</i> , 2020, 40, 2964-2985.	1.5	8
98	The precipitation patterns and atmospheric dynamics of the Serengeti National Park. <i>International Journal of Climatology</i> , 2021, 41, E2051.	1.5	8
99	Kenyan Long Rains: A Subseasonal Approach to Process-Based Diagnostics. <i>Journal of Climate</i> , 2021, 34, 3311-3326.	1.2	8
100	On the reconstruction of seasonal oceanic precipitation in the presatellite era. <i>Journal of Geophysical Research</i> , 2005, 110, n/a-n/a.	3.3	7
101	Coupled Climate Model Simulation of Tropicalâ€”Extratropical Cloud Bands over Southern Africa. <i>Journal of Climate</i> , 2020, 33, 8579-8602.	1.2	6
102	Future Changes in the Indian Ocean Walker Circulation and Links to Kenyan Rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034585.	1.2	5
103	Observations of the Turkana Jet and the East African Dry Tropics: The RIFTJet Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1828-E1842.	1.7	5
104	Transport trajectories of dust originating from the Tarim Basin, China. <i>International Journal of Climatology</i> , 2010, 30, 291-304.	1.5	4
105	Quantifying chaos in the atmosphere. <i>Progress in Physical Geography</i> , 2000, 24, 499-514.	1.4	4
106	Rainfall in uncoupled and coupled versions of the Met Office Unified Model over Central Africa: Investigation of processes during the Septemberâ€”November rainy season. <i>International Journal of Climatology</i> , 2022, 42, 6311-6331.	1.5	4
107	Assessment of the unified model in reproducing West African precipitation and temperature climatology. <i>Theoretical and Applied Climatology</i> , 2022, 148, 779-794.	1.3	3
108	Atmospheric Controls on Mineral Dust Emission From the Etosha Pan, Namibia: Observations From the CLARIFYâ€”2016 Field Campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034746.	1.2	2

#	ARTICLE	IF	CITATIONS
109	Climate outlooks for water management adaptation to climate change in the middle east. <i>Developments in Water Science</i> , 2003, 50, 335-348.	0.1	1
110	The Impacts of the Oceans on Climate Change. , 2008, , .		1
111	Influence of orography upon summertime low-level jet dust emission in the central and western Sahara. <i>Journal of Geophysical Research D: Atmospheres</i> , 0, , .	1.2	1