

# William Boos

## List of Publications by Year in descending order

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Version: 2024-02-01

68  
papers

3,456  
citations

218677

26  
h-index

144013

57  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3758  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dominant control of the South Asian monsoon by orographic insulation versus plateau heating. <i>Nature</i> , 2010, 463, 218-222.	27.8	749
2	Orographic Controls on Climate and Paleoclimate of Asia: Thermal and Mechanical Roles for the Tibetan Plateau. <i>Annual Review of Earth and Planetary Sciences</i> , 2010, 38, 77-102.	11.0	644
3	A global climatology of monsoon low-pressure systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1049-1064.	2.7	143
4	Sensitivity of the South Asian monsoon to elevated and non-elevated heating. <i>Scientific Reports</i> , 2013, 3, 1192.	3.3	113
5	Observational Evaluation of a Convective Quasi-Equilibrium View of Monsoons. <i>Journal of Climate</i> , 2010, 23, 4416-4428.	3.2	106
6	Weakening of the North American monsoon with global warming. <i>Nature Climate Change</i> , 2017, 7, 806-812.	18.8	105
7	Global energetics and local physics as drivers of past, present and future monsoons. <i>Nature Geoscience</i> , 2018, 11, 392-400.	12.9	100
8	Regional energy budget control of the intertropical convergence zone and application to mid-Holocene rainfall. <i>Nature Geoscience</i> , 2016, 9, 892-897.	12.9	92
9	Volcanic suppression of Nile summer flooding triggers revolt and constrains interstate conflict in ancient Egypt. <i>Nature Communications</i> , 2017, 8, 900.	12.8	91
10	Identifying climate drivers of infectious disease dynamics: recent advances and challenges ahead. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170901.	2.6	91
11	Annual intensification of the Somali jet in a quasi-equilibrium framework: Observational composites. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009, 135, 319-335.	2.7	76
12	Thermodynamic Bias in the Multimodel Mean Boreal Summer Monsoon. <i>Journal of Climate</i> , 2013, 26, 2279-2287.	3.2	74
13	Decline and poleward shift in Indian summer monsoon synoptic activity in a warming climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2681-2686.	7.1	73
14	Adiabatic westward drift of Indian monsoon depressions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1035-1048.	2.7	70
15	Effects of Orography and Surface Heat Fluxes on the South Asian Summer Monsoon. <i>Journal of Climate</i> , 2014, 27, 6647-6659.	3.2	50
16	Thermodynamic Scaling of the Hydrological Cycle of the Last Glacial Maximum. <i>Journal of Climate</i> , 2012, 25, 992-1006.	3.2	46
17	Interannual Variability of Monsoon Precipitation and Local Subcloud Equivalent Potential Temperature. <i>Journal of Climate</i> , 2013, 26, 9507-9527.	3.2	45
18	Near-linear response of mean monsoon strength to a broad range of radiative forcings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1510-1515.	7.1	41

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19	Perspectives on Moist Baroclinic Instability: Implications for the Growth of Monsoon Depressions. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1767-1788.	1.7	39
20	A Genesis Index for Monsoon Disturbances. <i>Journal of Climate</i> , 2016, 29, 5189-5203.	3.2	36
21	Cirrus cloud seeding: a climate engineering mechanism with reduced side effects?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20140116.	3.4	35
22	Has the number of Indian summer monsoon depressions decreased over the last 30 years?. <i>Geophysical Research Letters</i> , 2014, 41, 7846-7853.	4.0	34
23	Mechanisms of Poleward Propagating, Intraseasonal Convective Anomalies in Cloud System—Resolving Models. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 3673-3691.	1.7	32
24	Weakening and Shifting of the Saharan Shallow Meridional Circulation during Wet Years of the West African Monsoon. <i>Journal of Climate</i> , 2017, 30, 7399-7422.	3.2	30
25	Barotropic growth of monsoon depressions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 824-844.	2.7	30
26	Assessing Historical Variability of South Asian Monsoon Lows and Depressions With an Optimized Tracking Algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032977.	3.3	30
27	Land surface albedo bias in climate models and its association with tropical rainfall. <i>Geophysical Research Letters</i> , 2017, 44, 6363-6372.	4.0	29
28	Improving Energy-Based Estimates of Monsoon Location in the Presence of Proximal Deserts. <i>Journal of Climate</i> , 2016, 29, 4741-4761.	3.2	27
29	Tropical cyclogenesis in warm climates simulated by a cloud-system resolving model. <i>Climate Dynamics</i> , 2019, 52, 107-127.	3.8	27
30	Monsoon depression amplification by moist barotropic instability in a vertically sheared environment. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 2666-2684.	2.7	25
31	Transient Diapycnal Mixing and the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2004, 34, 334-341.	1.7	23
32	Convective Self-Aggregation and Tropical Cyclogenesis under the Hypohydrostatic Rescaling. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 525-544.	1.7	23
33	The Effect of Midlatitude Transient Eddies on Monsoonal Southerlies over Eastern China. <i>Journal of Climate</i> , 2015, 28, 8450-8465.	3.2	20
34	Modulation of subtropical stratospheric gravity waves by equatorial rainfall. <i>Geophysical Research Letters</i> , 2016, 43, 466-471.	4.0	16
35	Wind—Evaporation Feedback and Abrupt Seasonal Transitions of Weak, Axisymmetric Hadley Circulations. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 2194-2214.	1.7	15
36	The influence of orographic Rossby and gravity waves on rainfall. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 845-851.	2.7	14

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37	Using Atmospheric Energy Transport to Quantitatively Constrain South Pacific Convergence Zone Shifts during ENSO. <i>Journal of Climate</i> , 2019, 32, 1839-1855.	3.2	14
38	The Tropospheric Response to Tropical and Subtropical Zonally Asymmetric Torques: Analytical and Idealized Numerical Model Results. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 214-235.	1.7	13
39	A Mechanism for the Response of the Zonally Asymmetric Subtropical Hydrologic Cycle to Global Warming. <i>Journal of Climate</i> , 2016, 29, 7851-7867.	3.2	13
40	The Physics of Orographic Elevated Heating in Radiative-Convective Equilibrium. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 2949-2965.	1.7	13
41	Role of Surface Enthalpy Fluxes in Idealized Simulations of Tropical Depression Spinup. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1811-1831.	1.7	13
42	Influence of Intraseasonal Variability on the Development of Monsoon Depressions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090425.	4.0	13
43	Mechanical forcing of the North American monsoon by orography. <i>Nature</i> , 2021, 599, 611-615.	27.8	13
44	Global association of the Madden-Julian Oscillation with monsoon lows and depressions. <i>Geophysical Research Letters</i> , 2017, 44, 8065-8074.	4.0	12
45	Reply to Levermann et al.: Linear scaling for monsoons based on well-verified balance between adiabatic cooling and latent heat release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2350-1.	7.1	11
46	The drying tendency of shallow meridional circulations in monsoons. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2017, 143, 2655-2664.	2.7	11
47	Origins of Moist Air in Global Lagrangian Simulations of the Madden-Julian Oscillation. <i>Atmosphere</i> , 2017, 8, 158.	2.3	11
48	Aquaplanet Models on Eccentric Orbits: Effects of the Rotation Rate on Observables. <i>Astronomical Journal</i> , 2019, 157, 189.	4.7	11
49	Response of extreme precipitation to uniform surface warming in quasi-global aquaplanet simulations at high resolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190543.	3.4	11
50	Potential Vorticity Structure and Propagation Mechanism of Indian Monsoon Depressions. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2017, , 187-199.	0.2	11
51	Exploratory Precipitation Metrics: Spatiotemporal Characteristics, Process-Oriented, and Phenomena-Based. <i>Journal of Climate</i> , 2022, 35, 3659-3686.	3.2	11
52	Wind-Evaporation Feedback and the Axisymmetric Transition to Angular Momentum-Conserving Hadley Flow. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 3758-3778.	1.7	10
53	Excitation of Intraseasonal Variability in the Equatorial Atmosphere by Yanai Wave Groups via WISHE-Induced Convection. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 210-225.	1.7	10
54	Regime Transitions of Cross-Equatorial Hadley Circulations with Zonally Asymmetric Thermal Forcings. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 3800-3818.	1.7	10

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55	Competing effects of surface albedo and orographic elevated heating on regional climate. <i>Geophysical Research Letters</i> , 2017, 44, 6966-6973.	4.0	8
56	The Effect of Moist Convection on the Tropospheric Response to Tropical and Subtropical Zonally Asymmetric Torques. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 4089-4111.	1.7	6
57	Understanding the vertical structure of potential vorticity in tropical depressions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1968-1991.	2.7	6
58	Quasigeostrophic Controls on Precipitating Ascent in Monsoon Depressions. <i>Journals of the Atmospheric Sciences</i> , 2019, 77, 1213-1232.	1.7	6
59	Feedbacks and eddy diffusivity in an energy balance model of tropical rainfall shifts. <i>Npj Climate and Atmospheric Science</i> , 2020, 3, .	6.8	6
60	Radiative feedbacks on land surface change and associated tropical precipitation shifts. <i>Journal of Climate</i> , 2021, , 1-63.	3.2	6
61	Sensitivity of subtropical stationary circulations to global warming in climate models: a baroclinic Rossby gyre theory. <i>Climate Dynamics</i> , 2019, 52, 4873-4890.	3.8	5
62	Explaining Globally Inhomogeneous Future Changes in Monsoons Using Simple Moist Energy Diagnostics. <i>Journal of Climate</i> , 2021, 34, 8615-8634.	3.2	5
63	The Globally Coherent Pattern of Autumn Monsoon Precipitation. <i>Journal of Climate</i> , 2021, , 1-56.	3.2	1
64	Regional energy budget control of the intertropical convergence zone and application to mid-Holocene rainfall. , 0, .		1
65	The Unexpected Oceanic Peak in Energy Input to the Atmosphere and Its Consequences for Monsoon Rainfall. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	1
66	Cold winters from warm oceans. <i>Nature</i> , 2011, 471, 584-586.	27.8	0
67	The influence of surface heat fluxes on the growth of idealized monsoon. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	0
68	Upperâ€Tropospheric Troughs and North American Monsoon Rainfall in a Longâ€Term Track Dataset. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034541.	3.3	0