

William Boos

List of Publications by Year in descending order

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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	Exploratory Precipitation Metrics: Spatiotemporal Characteristics, Process-Oriented, and Phenomena-Based. <i>Journal of Climate</i> , 2022, 35, 3659-3686.	3.2	11
2	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
3	Influence of Intraseasonal Variability on the Development of Monsoon Depressions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090425.	4.0	13
4	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
5	The Globally Coherent Pattern of Autumn Monsoon Precipitation. <i>Journal of Climate</i> , 2021, , 1-56.	3.2	1
6	The influence of surface heat fluxes on the growth of idealized monsoon. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	0
7	Radiative feedbacks on land surface change and associated tropical precipitation shifts. <i>Journal of Climate</i> , 2021, , 1-63.	3.2	6
8	Explaining Globally Inhomogeneous Future Changes in Monsoons Using Simple Moist Energy Diagnostics. <i>Journal of Climate</i> , 2021, 34, 8615-8634.	3.2	5
9	Upper-Tropospheric Troughs and North American Monsoon Rainfall in a Long-Term Track Dataset. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034541.	3.3	0
10	Mechanical forcing of the North American monsoon by orography. <i>Nature</i> , 2021, 599, 611-615.	27.8	13
11	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
12	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
13	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
14	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
15	Aquaplanet Models on Eccentric Orbits: Effects of the Rotation Rate on Observables. <i>Astronomical Journal</i> , 2019, 157, 189.	4.7	11
16	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
17	Quasigeostrophic Controls on Precipitating Ascent in Monsoon Depressions. <i>Journals of the Atmospheric Sciences</i> , 2019, 77, 1213-1232.	1.7	6
18	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

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19	Barotropic growth of monsoon depressions. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 824-844.	2.7	30
20	Tropical cyclogenesis in warm climates simulated by a cloud-system resolving model. Climate Dynamics, 2019, 52, 107-127.	3.8	27
21	Decline and poleward shift in Indian summer monsoon synoptic activity in a warming climate. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2681-2686.	7.1	73
22	Role of Surface Enthalpy Fluxes in Idealized Simulations of Tropical Depression Spinup. Journals of the Atmospheric Sciences, 2018, 75, 1811-1831.	1.7	13
23	Global energetics and local physics as drivers of past, present and future monsoons. Nature Geoscience, 2018, 11, 392-400.	12.9	100
24	The influence of orographic Rossby and gravity waves on rainfall. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 845-851.	2.7	14
25	Competing effects of surface albedo and orographic elevated heating on regional climate. Geophysical Research Letters, 2017, 44, 6966-6973.	4.0	8
26	The drying tendency of shallow meridional circulations in monsoons. Quarterly Journal of the Royal Meteorological Society, 2017, 143, 2655-2664.	2.7	11
27	Weakening of the North American monsoon with global warming. Nature Climate Change, 2017, 7, 806-812.	18.8	105
28	Volcanic suppression of Nile summer flooding triggers revolt and constrains interstate conflict in ancient Egypt. Nature Communications, 2017, 8, 900.	12.8	91
29	The Physics of Orographic Elevated Heating in Radiative-Convective Equilibrium. Journals of the Atmospheric Sciences, 2017, 74, 2949-2965.	1.7	13
30	Identifying climate drivers of infectious disease dynamics: recent advances and challenges ahead. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170901.	2.6	91
31	Global association of the Madden-Julian Oscillation with monsoon lows and depressions. Geophysical Research Letters, 2017, 44, 8065-8074.	4.0	12
32	Weakening and Shifting of the Saharan Shallow Meridional Circulation during Wet Years of the West African Monsoon. Journal of Climate, 2017, 30, 7399-7422.	3.2	30
33	Land surface albedo bias in climate models and its association with tropical rainfall. Geophysical Research Letters, 2017, 44, 6363-6372.	4.0	29
34	Origins of Moist Air in Global Lagrangian Simulations of the Madden-Julian Oscillation. Atmosphere, 2017, 8, 158.	2.3	11
35	Potential Vorticity Structure and Propagation Mechanism of Indian Monsoon Depressions. World Scientific Series on Asia-Pacific Weather and Climate, 2017, , 187-199.	0.2	11
36	Improving Energy-Based Estimates of Monsoon Location in the Presence of Proximal Deserts. Journal of Climate, 2016, 29, 4741-4761.	3.2	27

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37	A Genesis Index for Monsoon Disturbances. <i>Journal of Climate</i> , 2016, 29, 5189-5203.	3.2	36
38	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
39	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
40	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
41	Modulation of subtropical stratospheric gravity waves by equatorial rainfall. <i>Geophysical Research Letters</i> , 2016, 43, 466-471.	4.0	16
42	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
43	Convective Self-Aggregation and Tropical Cyclogenesis under the Hypohydrostatic Rescaling. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 525-544.	1.7	23
44	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
45	A global climatology of monsoon low-pressure systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1049-1064.	2.7	143
46	Adiabatic westward drift of Indian monsoon depressions. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 1035-1048.	2.7	70
47	The Effect of Midlatitude Transient Eddies on Monsoonal Southerlies over Eastern China. <i>Journal of Climate</i> , 2015, 28, 8450-8465.	3.2	20
48	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
49	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
50	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
51	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
52	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
53	Interannual Variability of Monsoon Precipitation and Local Subcloud Equivalent Potential Temperature. <i>Journal of Climate</i> , 2013, 26, 9507-9527.	3.2	45
54	Thermodynamic Bias in the Multimodel Mean Boreal Summer Monsoon. <i>Journal of Climate</i> , 2013, 26, 2279-2287.	3.2	74

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55	Sensitivity of the South Asian monsoon to elevated and non-elevated heating. <i>Scientific Reports</i> , 2013, 3, 1192.	3.3	113
56	Thermodynamic Scaling of the Hydrological Cycle of the Last Glacial Maximum. <i>Journal of Climate</i> , 2012, 25, 992-1006.	3.2	46
57	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
58	Cold winters from warm oceans. <i>Nature</i> , 2011, 471, 584-586.	27.8	0
59	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
60	Dominant control of the South Asian monsoon by orographic insulation versus plateau heating. <i>Nature</i> , 2010, 463, 218-222.	27.8	749
61	Observational Evaluation of a Convective Quasi-Equilibrium View of Monsoons. <i>Journal of Climate</i> , 2010, 23, 4416-4428.	3.2	106
62	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
63	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
64	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
65	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
66	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
67	Transient Diapycnal Mixing and the Meridional Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2004, 34, 334-341.	1.7	23
68	Regional energy budget control of the intertropical convergence zone and application to mid-Holocene rainfall. , 0, .		1