

Simona Bordoni

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,730
citations

257450

24
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

1975
citing authors

#	ARTICLE	IF	CITATIONS
1	Monsoons as eddy-mediated regime transitions of the tropical overturning circulation. <i>Nature Geoscience</i> , 2008, 1, 515-519.	12.9	192
2	Eddy-Mediated Regime Transitions in the Seasonal Cycle of a Hadley Circulation and Implications for Monsoon Dynamics. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 915-934.	1.7	126
3	Weakening of the North American monsoon with global warming. <i>Nature Climate Change</i> , 2017, 7, 806-812.	18.8	105
4	Orographic Effects of the Tibetan Plateau on the East Asian Summer Monsoon: An Energetic Perspective. <i>Journal of Climate</i> , 2014, 27, 3052-3072.	3.2	96
5	Monsoons, ITCZs, and the Concept of the Global Monsoon. <i>Reviews of Geophysics</i> , 2020, 58, e2020RG000700.	23.0	67
6	The Mechanical Impact of the Tibetan Plateau on the Seasonal Evolution of the South Asian Monsoon. <i>Journal of Climate</i> , 2012, 25, 2394-2407.	3.2	65
7	Hadley Circulation Response to Orbital Precession. Part I: Aquaplanets. <i>Journal of Climate</i> , 2013, 26, 740-753.	3.2	61
8	Challenges and opportunities for improved understanding of regional climate dynamics. <i>Nature Climate Change</i> , 2018, 8, 101-108.	18.8	56
9	Northern Hemisphere Monsoon Response to Mid-Holocene Orbital Forcing and Greenhouse Gas-Induced Global Warming. <i>Geophysical Research Letters</i> , 2019, 46, 1591-1601.	4.0	56
10	The low-level circulation of the North American Monsoon as revealed by QuikSCAT. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	53
11	The Tropical Precipitation Response to Orbital Precession. <i>Journal of Climate</i> , 2013, 26, 2010-2021.	3.2	52
12	Hadley Circulation Response to Orbital Precession. Part II: Subtropical Continent. <i>Journal of Climate</i> , 2013, 26, 754-771.	3.2	52
13	On the Structure of the Lower Troposphere in the Summertime Stratocumulus Regime of the Northeast Pacific. <i>Monthly Weather Review</i> , 2007, 135, 985-1005.	1.4	50
14	Regime Transitions of Steady and Time-Dependent Hadley Circulations: Comparison of Axisymmetric and Eddy-Permitting Simulations. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 1643-1654.	1.7	48
15	Monsoon Responses to Climate Changes—Connecting Past, Present and Future. <i>Current Climate Change Reports</i> , 2019, 5, 63-79.	8.6	48
16	The tropical rain belts with an annual cycle and a continent model intercomparison project: TRACMIP. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1868-1891.	3.8	47
17	Characterizing the Hadley Circulation Response through Regional Climate Feedbacks. <i>Journal of Climate</i> , 2016, 29, 613-622.	3.2	41
18	Coupled High-Latitude Climate Feedbacks and Their Impact on Atmospheric Heat Transport. <i>Journal of Climate</i> , 2017, 30, 189-201.	3.2	41

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19	Principal Component Analysis of the Summertime Winds over the Gulf of California: A Gulf Surge Index. <i>Monthly Weather Review</i> , 2006, 134, 3395-3414.	1.4	40
20	Energetic Constraints on the ITCZ Position in Idealized Simulations With a Seasonal Cycle. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1708-1725.	3.8	40
21	Interannual Variability in the Large-Scale Dynamics of the South Asian Summer Monsoon. <i>Journal of Climate</i> , 2015, 28, 3731-3750.	3.2	39
22	The Impact of Horizontal Resolution on North American Monsoon Gulf of California Moisture Surges in a Suite of Coupled Global Climate Models. <i>Journal of Climate</i> , 2016, 29, 7911-7936.	3.2	32
23	Effects of Rotation Rate and Seasonal Forcing on the ITCZ Extent in Planetary Atmospheres. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 665-678.	1.7	30
24	Early Summer Response of the East Asian Summer Monsoon to Atmospheric CO ₂ Forcing and Subsequent Sea Surface Warming. <i>Journal of Climate</i> , 2016, 29, 5431-5446.	3.2	25
25	Atmospheric Eddies Mediate Lapse Rate Feedback and Arctic Amplification. <i>Journal of Climate</i> , 2017, 30, 9213-9224.	3.2	24
26	The direct and ocean-mediated influence of Asian orography on tropical precipitation and cyclones. <i>Climate Dynamics</i> , 2019, 53, 805-824.	3.8	22
27	Intermodel spread of East Asian summer monsoon simulations in CMIP5. <i>Geophysical Research Letters</i> , 2014, 41, 1314-1321.	4.0	21
28	Tropical and Extratropical Controls of Gulf of California Surges and Summertime Precipitation over the Southwestern United States. <i>Monthly Weather Review</i> , 2016, 144, 2695-2718.	1.4	20
29	Axisymmetric Constraints on Cross-Equatorial Hadley Cell Extent. <i>Journals of the Atmospheric Sciences</i> , 2019, 76, 1547-1564.	1.7	20
30	Sensitivity of El Niño intensity and timing to preceding subsurface heat magnitude. <i>Scientific Reports</i> , 2016, 6, 36344.	3.3	18
31	On the dynamical mechanisms explaining the western Pacific subsurface temperature buildup leading to ENSO events. <i>Geophysical Research Letters</i> , 2015, 42, 2961-2967.	4.0	15
32	The Influence of CO ₂ Forcing on North American Monsoon Moisture Surges. <i>Journal of Climate</i> , 2018, 31, 7949-7968.	3.2	15
33	Sensitivity Analysis of Cirrus Cloud Properties from High-Resolution Infrared Spectra. Part I: Methodology and Synthetic Cirrus. <i>Journal of Climate</i> , 2004, 17, 4856-4870.	3.2	14
34	Heat advection processes leading to El Niño events as depicted by an ensemble of ocean assimilation products. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 3710-3729.	2.6	14
35	In the Driver's Seat: Rico and Education. <i>Bulletin of the American Meteorological Society</i> , 2007, 88, 1929-1938.	3.3	13
36	On the Role of the African Topography in the South Asian Monsoon. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3197-3212.	1.7	13

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37	Onset and withdrawal of the large-scale South Asian monsoon: A dynamical definition using change point detection. <i>Geophysical Research Letters</i> , 2016, 43, 11,815.	4.0	13
38	Atmospheric Dynamics in High Obliquity Planets. <i>Icarus</i> , 2020, 340, 113592.	2.5	10
39	Parameterization Interactions in Global Aquaplanet Simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 403-420.	3.8	9
40	Tropical precipitation extremes: Response to SST-induced warming in aquaplanet simulations. <i>Geophysical Research Letters</i> , 2017, 44, 3374-3383.	4.0	5
41	Energetic Constraints on the Intertropical Convergence Zone Position in the Observed Seasonal Cycle From Modern Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088506.	4.0	5
42	Response of Monsoon Rainfall to Changes in the Latitude of the Equatorward Coastline of a Zonally Symmetric Continent. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 1429-1444.	1.7	5
43	Timing of subsurface heat magnitude for the growth of El Niño events. <i>Geophysical Research Letters</i> , 2017, 44, 8501-8509.	4.0	4
44	Axisymmetric Hadley Cell Theory with a Fixed Tropopause Temperature Rather than Height. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 1279-1294.	1.7	4
45	Introducing the Bulletin of Atmospheric Science and Technology. <i>Bulletin of Atmospheric Science and Technology</i> , 2020, 1, 1-11.	0.9	2
46	Solstitial Hadley Cell ascending edge theory from supercriticality. <i>Journals of the Atmospheric Sciences</i> , 2021, , .	1.7	1
47	Challenges and opportunities for improved understanding of regional climate dynamics. , 0, .		1
48	Bordoni Receives 2009 James R. Holton Junior Scientist Award. <i>Eos</i> , 2010, 91, 146-146.	0.1	0