Francina Dominguez

List of Publications by Year
in descending order

62 papers	3,359 citations	172457 29 h-index	144013 57 g-index
66 all docs	66 docs citations	66 times ranked	3893 citing authors

#	Article	IF	Citations
1	Oceanic and terrestrial sources of continental precipitation. Reviews of Geophysics, 2012, 50, .	23.0	384
2	A formal framework for scenario development in support of environmental decision-making. Environmental Modelling and Software, 2009, 24, 798-808.	4.5	284
3	Impact of Atmospheric Moisture Storage on Precipitation Recycling. Journal of Climate, 2006, 19, 1513-1530.	3.2	216
4	Evidence of enhanced precipitation due to irrigation over the Great Plains of the United States. Journal of Geophysical Research, 2010, 115, .	3.3	214
5	Major Mechanisms of Atmospheric Moisture Transport and Their Role in Extreme Precipitation Events. Annual Review of Environment and Resources, 2016, 41, 117-141.	13.4	177
6	Sources of Atmospheric Moisture for the La Plata River Basin*. Journal of Climate, 2014, 27, 6737-6753.	3.2	123
7	Changes in winter precipitation extremes for the western United States under a warmer climate as simulated by regional climate models. Geophysical Research Letters, 2012, 39, .	4.0	119
8	Precipitation Recycling Variability and Ecoclimatological Stabilityâ€"A Study Using NARR Data. Part II: North American Monsoon Region. Journal of Climate, 2008, 21, 5187-5203.	3.2	110
9	Can a Regional Climate Model Improve the Ability to Forecast the North American Monsoon?. Journal of Climate, 2012, 25, 8212-8237.	3.2	82
10	Role of Oceanic and Land Moisture Sources and Transport in the Seasonal and Interannual Variability of Summer Monsoon in India. Journal of Climate, 2017, 30, 1839-1859.	3.2	82
11	IPCC-AR4 climate simulations for the Southwestern US: the importance of future ENSO projections. Climatic Change, 2010, 99, 499-514.	3.6	79
12	Recent progress on the sources of continental precipitation as revealed by moisture transport analysis. Earth-Science Reviews, 2020, 201, 103070.	9.1	71
13	Moisture origin and transport processes in Colombia, northern South America. Climate Dynamics, 2018, 50, 971-990.	3.8	69
14	Precipitation Recycling Variability and Ecoclimatological Stabilityâ€"A Study Using NARR Data. Part I: Central U.S. Plains Ecoregion. Journal of Climate, 2008, 21, 5165-5186.	3.2	68
15	Linking Atmospheric River Hydrological Impacts on the U.S. West Coast to Rossby Wave Breaking. Journal of Climate, 2017, 30, 3381-3399.	3.2	68
16	Evaluation of Oceanic and Terrestrial Sources of Moisture for the North American Monsoon Using Numerical Models and Precipitation Stable Isotopes. Journal of Hydrometeorology, 2015, 16, 19-35.	1.9	66
17	Reduced Moisture Transport Linked to Drought Propagation Across North America. Geophysical Research Letters, 2019, 46, 5243-5253.	4.0	64
18	Effects of spatial resolution in the simulation of daily and subdaily precipitation in the southwestern US. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7591-7605.	3.3	63

#	Article	IF	Citations
19	WRF with Water Vapor Tracers: A Study of Moisture Sources for the North American Monsoon. Journal of Hydrometeorology, 2016, 17, 1915-1927.	1.9	58
20	Urban precipitation extremes: How reliable are regional climate models?. Geophysical Research Letters, 2012, 39, .	4.0	50
21	Atmospheric Rivers and Cool Season Extreme Precipitation Events in the Verde River Basin of Arizona. Journal of Hydrometeorology, 2014, 15, 813-829.	1.9	49
22	Snow days? Snowmaking adaptation and the future of low latitude, high elevation skiing in Arizona, USA. Climatic Change, 2010, 102, 467-491.	3.6	47
23	Impact of Irrigation over the California Central Valley on Regional Climate. Journal of Hydrometeorology, 2017, 18, 1341-1357.	1.9	46
24	How Might Recharge Change Under Projected Climate Change in the Western U.S.?. Geophysical Research Letters, 2017, 44, 10407-10418.	4.0	38
25	Spatial extent of the North American Monsoon: Increased crossâ€regional linkages via atmospheric pathways. Geophysical Research Letters, 2009, 36, .	4.0	37
26	Investigating Land Surface Effects on the Moisture Transport over South America with a Moisture Tagging Model. Journal of Climate, 2019, 32, 6627-6644.	3.2	37
27	Evaluation of the moisture sources in two extreme landfalling atmospheric river events using an Eulerian WRF tracers tool. Earth System Dynamics, 2017, 8, 1247-1261.	7.1	35
28	Dominating Controls for Wetter South Asian Summer Monsoon in the Twenty-First Century. Journal of Climate, 2015, 28, 3400-3419.	3.2	34
29	Irrigation Impact on Water and Energy Cycle During Dry Years Over the United States Using Convectionâ€Permitting WRF and a Dynamical Recycling Model. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11220-11241.	3.3	34
30	Two-Layer Dynamic Recycling Model (2L-DRM): Learning from Moisture Tracking Models of Different Complexity. Journal of Hydrometeorology, 2020, 21, 3-16.	1.9	32
31	Tracking an atmospheric river in aÂwarmer climate: from water vapor to economic impacts. Earth System Dynamics, 2018, 9, 249-266.	7.1	31
32	The Impact of Climate Change on Agriculture in the Southwestern United States: The Ricardian Approach Revisited. Spatial Economic Analysis, 2016, 11, 46-66.	1.6	30
33	Sensitivity of regional evapotranspiration partitioning to variation in woody plant cover: insights from experimental dryland tree mosaics. Global Ecology and Biogeography, 2015, 24, 1040-1048.	5.8	28
34	Changes in South American hydroclimate under projected Amazonian deforestation. Annals of the New York Academy of Sciences, 2020, 1472, 104-122.	3.8	27
35	Seasonalizing Mountain System Recharge in Semiâ€Arid Basinsâ€Climate Change Impacts. Ground Water, 2012, 50, 585-597.	1.3	26
36	Observed Hydrologic Impacts of Landfalling Atmospheric Rivers in the Salt and Verde River Basins of Arizona, United States. Water Resources Research, 2017, 53, 10025-10042.	4.2	26

#	Article	IF	Citations
37	Dominant Modes of Moisture Flux Anomalies over North America. Journal of Hydrometeorology, 2005, 6, 194-209.	1.9	25
38	Dominant patterns of US warm season precipitation variability in a fine resolution observational record, with focus on the southwest. International Journal of Climatology, 2014, 34, 687-707.	3.5	25
39	The more extreme nature of U.S. warm season climate in the recent observational record and two â€œwellâ€performingâ€•dynamically downscaled CMIP3 models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8244-8263.	3.3	25
40	Effects of a Groundwater Scheme on the Simulation of Soil Moisture and Evapotranspiration over Southern South America. Journal of Hydrometeorology, 2016, 17, 2941-2957.	1.9	25
41	Role of Moisture Transport and Recycling in Characterizing Droughts: Perspectives from Two Recent U.S. Droughts and the CFSv2 System. Journal of Hydrometeorology, 2019, 20, 139-154.	1.9	22
42	Inland water bodies in Chile can locally increase rainfall intensity. Journal of Hydrology, 2013, 481, 56-63.	5.4	19
43	Variability of regional atmospheric moisture over Northern South America: patterns and underlying phenomena. Climate Dynamics, 2019, 52, 893-911.	3.8	19
44	Amazonian Moisture Recycling Revisited Using WRF With Water Vapor Tracers. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	17
45	Framework for incorporating climate change on flood magnitude and frequency analysis in the upper Santa Cruz River. Journal of Hydrology, 2017, 549, 194-207.	5.4	16
46	A climate change projection for summer hydrologic conditions in a semiarid watershed of central Arizona. Journal of Arid Environments, 2015, 118, 9-20.	2.4	15
47	Hydrometeorological Observations and Modeling of an Extreme Rainfall Event Using WRF and WRF-Hydro during the RELAMPAGO Field Campaign in Argentina. Journal of Hydrometeorology, 2021, 22, 331-351.	1.9	14
48	Downscaling climate variability associated with quasi-periodic climate signals: A new statistical approach using MSSA. Journal of Hydrology, 2011, 398, 65-75.	5.4	13
49	Characterizing the water extremes of the new century in the US South-west: a comprehensive assessment from state-of-the-art climate model projections. International Journal of Water Resources Development, 2013, 29, 152-171.	2.0	13
50	Impacts of a Groundwater Scheme on Hydroclimatological Conditions over Southern South America. Journal of Hydrometeorology, 2016, 17, 2959-2978.	1.9	13
51	Understanding the Role of Tropical Moisture in Atmospheric Rivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 13826-13842.	3.3	13
52	Extreme Landfalling Atmospheric River Events in Arizona: Possible Future Changes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7076-7097.	3.3	12
53	Structure of an Atmospheric River Over Australia and the Southern Ocean. Part I: Tropical and Midlatitude Water Vapor Fluxes. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032513.	3.3	11
54	Isolating the Observed Influence of Vegetation Variability on the Climate of La Plata River Basin. Journal of Climate, 2019, 32, 4473-4490.	3.2	10

#	Article	IF	Citations
55	A Numerical Water Tracer Model for Understanding Event-Scale Hydrometeorological Phenomena. Journal of Hydrometeorology, 2018, 19, 947-967.	1.9	8
56	Large and local-scale features associated with heat waves in the United States in reanalysis products and the NARCCAP model ensemble. Climate Dynamics, 2019, 52, 1883-1901.	3.8	8
57	Physical Mechanisms Related to Climate-Induced Drying of Two Semiarid Watersheds in the Southwestern United States. Journal of Hydrometeorology, 2014, 15, 1404-1418.	1.9	6
58	The Orinoco Lowâ€Level Jet and the Crossâ€Equatorial Moisture Transport Over Tropical South America: Lessons From Seasonal WRF Simulations. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
59	Projected changes in atmospheric river events in Arizona as simulated by global and regional climate models. Climate Dynamics, 2016, 47, 1673-1691.	3.8	5
60	Extreme Precipitation Spatial Analog: In Search of an Alternative Approach for Future Extreme Precipitation in Urban Hydrological Studies. Water (Switzerland), 2019, 11, 1032.	2.7	5
61	Investigating the Effects of Land Use Change on Subsurface, Surface, and Atmospheric Branches of the Hydrologic Cycle in Central Argentina. Water Resources Research, 2021, 57, e2021WR029704.	4.2	5
62	The Amazon and La Plata River Basins as Moisture Sources of South America: Climatology and Intraseasonal Variability. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	5