

# Annalisa Molini

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

863  
citations

16  
h-index

29  
g-index

41  
ext. papers

1,002  
ext. citations

5.4  
avg, IF

4.29  
L-index

#	Paper	IF	Citations
34	Evolution of the rainfall regime in the United Arab Emirates. <i>Journal of Hydrology</i> , <b>2014</b> , 514, 258-270	6	84
33	First passage time statistics of Brownian motion with purely time dependent drift and diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2011</b> , 390, 1841-1852	3.3	74
32	The impact of tipping-bucket raingauge measurement errors on design rainfall for urban-scale applications. <i>Hydrological Processes</i> , <b>2005</b> , 19, 1073-1088	3.3	72
31	Temperature and CAPE dependence of rainfall extremes in the eastern United States. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 74-83	4.9	67
30	Causality and persistence in ecological systems: a nonparametric spectral granger causality approach. <i>American Naturalist</i> , <b>2012</b> , 179, 524-35	3.7	66
29	Climatic, ecophysiological, and phenological controls on plant ecohydrological strategies in seasonally dry ecosystems. <i>Ecohydrology</i> , <b>2015</b> , 8, 660-681	2.5	59
28	Urban climate modifications in hot desert cities: The role of land cover, local climate, and seasonality. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 9980-9989	4.9	45
27	Improving the accuracy of tipping-bucket rain records using disaggregation techniques. <i>Atmospheric Research</i> , <b>2005</b> , 77, 203-217	5.4	33
26	Revisiting rainfall clustering and intermittency across different climatic regimes. <i>Water Resources Research</i> , <b>2009</b> , 45,	5.4	31
25	Maximum discharge from snowmelt in a changing climate. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	27
24	Correlation patterns and information flows in rainfall fields. <i>Journal of Hydrology</i> , <b>2006</b> , 322, 89-104	6	27
23	Hydrological extremes in hyperarid regions: A diagnostic characterization of intense precipitation over the Central Arabian Peninsula. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 1637-1650	4.4	26
22	Wavelet correlations to reveal multiscale coupling in geophysical systems. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 7555-7572	4.4	23
21	Causality across rainfall time scales revealed by continuous wavelet transforms. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		22
20	The role of surface characteristics on intermittency and zero-crossing properties of atmospheric turbulence. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		20
19	Stochastic modelling of phytoremediation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2011</b> , 467, 3188-3205	2.4	17
18	River basin salinization as a form of aridity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 17635-17642	11.5	16

17	Vegetation Controls on Dryland Salinity. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 11,669-11,682	4.9	15
16	Plant Osmoregulation as an Emergent Water-Saving Adaptation. <i>Water Resources Research</i> , <b>2018</b> , 54, 2781-2798	5.4	14
15	Salinity and periodic inundation controls on the soil-plant-atmosphere continuum of gray mangroves. <i>Hydrological Processes</i> , <b>2017</b> , 31, 1271-1282	3.3	12
14	Xylem-phloem hydraulic coupling explains multiple osmoregulatory responses to salt stress. <i>New Phytologist</i> , <b>2019</b> , 224, 644-662	9.8	12
13	A wavelet-based spectral method for extracting self-similarity measures in time-varying two-dimensional rainfall maps. <i>Journal of Time Series Analysis</i> , <b>2011</b> , 32, 351-363	0.8	12
12	Rainfall intermittency and the sampling error of tipping-bucket rain gauges. <i>Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science</i> , <b>2001</b> , 26, 737-742		12
11	Impacts of solar intermittency on future photovoltaic reliability. <i>Nature Communications</i> , <b>2020</b> , 11, 4781	17.4	12
10	North Atlantic controls on wintertime warm extremes and aridification trends in the Middle East. <i>Scientific Reports</i> , <b>2017</b> , 7, 12301	4.9	10
9	Global biosphere-climate interaction: a causal appraisal of observations and models over multiple temporal scales. <i>Biogeosciences</i> , <b>2019</b> , 16, 4851-4874	4.6	10
8	Cloud Cover over the Arabian Peninsula from Global Remote Sensing and Reanalysis Products. <i>Atmospheric Research</i> , <b>2020</b> , 238, 104866	5.4	9
7	Thermodynamics of an idealized hydrologic cycle. <i>Water Resources Research</i> , <b>2012</b> , 48,	5.4	8
6	Scale-wise evolution of rainfall probability density functions fingerprints the rainfall generation mechanism. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	8
5	Nonstationary warm spell frequency analysis integrating climate variability and change with application to the Middle East. <i>Climate Dynamics</i> , <b>2019</b> , 53, 5329-5347	4.2	7
4	On the properties of stochastic intermittency in rainfall processes. <i>Water Science and Technology</i> , <b>2002</b> , 45, 35-40	2.2	7
3	Surface alteration of calcite: interpreting macroscopic observations by means of AFM. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25634-25642	3.6	4
2	Women advancing research on hydrological processes: Preface. <i>Hydrological Processes</i> , <b>2021</b> , 35, e14267	3.3	1
1	Contrasting effects of aridity and seasonality on global salinization. <i>Nature Geoscience</i> , <b>2022</b> , 15, 375-381	18.3	0