

Andreas Langousis

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.

48
papers

1,188
citations

21
h-index

34
g-index

67
ext. papers

1,531
ext. citations

4.6
avg, IF

5.12
L-index

#	Paper	IF	Citations
48	A Brief Review of Random Forests for Water Scientists and Practitioners and Their Recent History in Water Resources. <i>Water (Switzerland)</i> , 2019 , 11, 910	3	159
47	Multifractality and rainfall extremes: A review. <i>Water Resources Research</i> , 2006 , 42,	5.4	93
46	Intensity-duration-frequency curves from scaling representations of rainfall. <i>Water Resources Research</i> , 2007 , 43,	5.4	78
45	The areal reduction factor: A multifractal analysis. <i>Water Resources Research</i> , 2005 , 41,	5.4	65
44	Threshold detection for the generalized Pareto distribution: Review of representative methods and application to the NOAA NCDC daily rainfall database. <i>Water Resources Research</i> , 2016 , 52, 2659-2681	5.4	60
43	HESS Opinions: "Climate, hydrology, energy, water: recognizing uncertainty and seeking sustainability". <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 247-257	5.5	54
42	Multifractal rainfall extremes: Theoretical analysis and practical estimation. <i>Chaos, Solitons and Fractals</i> , 2009 , 39, 1182-1194	9.3	50
41	Regional climate models performance in representing precipitation and temperature over selected Mediterranean areas. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 5041-5059	5.5	44
40	Comprehensive assessment and source apportionment of heavy metals in Shanghai agricultural soils with different fertility levels. <i>Ecological Indicators</i> , 2019 , 106, 105508	5.8	41
39	Hydrological post-processing using stacked generalization of quantile regression algorithms: Large-scale application over CONUS. <i>Journal of Hydrology</i> , 2019 , 577, 123957	6	40
38	Probabilistic Hydrological Post-Processing at Scale: Why and How to Apply Machine-Learning Quantile Regression Algorithms. <i>Water (Switzerland)</i> , 2019 , 11, 2126	3	36
37	New asymptotic and preasymptotic results on rainfall maxima from multifractal theory. <i>Water Resources Research</i> , 2009 , 45,	5.4	34
36	A simple approximation to multifractal rainfall maxima using a generalized extreme value distribution model. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1525-1531	3.5	30
35	Statistical framework to simulate daily rainfall series conditional on upper-air predictor variables. <i>Water Resources Research</i> , 2014 , 50, 3907-3932	5.4	29
34	Marginal methods of intensity-duration-frequency estimation in scaling and nonscaling rainfall. <i>Water Resources Research</i> , 2007 , 43,	5.4	28
33	Spatiotemporal infectious disease modeling: a BME-SIR approach. <i>PLoS ONE</i> , 2013 , 8, e72168	3.7	27
32	Theoretical model of rainfall in tropical cyclones for the assessment of long-term risk. <i>Journal of Geophysical Research</i> , 2009 , 114,		27

31	Assessing the relative effectiveness of statistical downscaling and distribution mapping in reproducing rainfall statistics based on climate model results. <i>Water Resources Research</i> , 2016 , 52, 471-494	5.4	27
30	A parametric approach for simultaneous bias correction and high-resolution downscaling of climate model rainfall. <i>Water Resources Research</i> , 2017 , 53, 2149-2170	5.4	24
29	A stochastic methodology for generation of seasonal time series reproducing overyear scaling behaviour. <i>Journal of Hydrology</i> , 2006 , 322, 138-154	6	24
28	Super ensemble learning for daily streamflow forecasting: large-scale demonstration and comparison with multiple machine learning algorithms. <i>Neural Computing and Applications</i> , 2021 , 33, 3053-3068	4.8	22
27	Long-term rainfall risk from tropical cyclones in coastal areas. <i>Water Resources Research</i> , 2009 , 45,	5.4	19
26	THE MAXIMUM OF MULTIFRACTAL CASCADES: EXACT DISTRIBUTION AND APPROXIMATIONS. <i>Fractals</i> , 2005 , 13, 311-324	3.2	18
25	Modeling of space-time infectious disease spread under conditions of uncertainty. <i>International Journal of Geographical Information Science</i> , 2012 , 26, 1751-1772	4.1	17
24	Probabilistic logic analysis of the highly heterogeneous spatiotemporal HFRS incidence distribution in Heilongjiang province (China) during 2005-2013. <i>PLoS Neglected Tropical Diseases</i> , 2019 , 13, e0007091	4.8	15
23	SCALING AND FRACTALS IN HYDROLOGY 2010 , 107-243		15
22	Quantitative assessment of annual maxima, peaks-over-threshold and multifractal parametric approaches in estimating intensity-duration-frequency curves from short rainfall records. <i>Journal of Hydrology</i> , 2020 , 589, 125151	6	14
21	Comparison of two rainfall-runoff models: effects of conceptualization on water budget components. <i>Hydrological Sciences Journal</i> , 2017 , 62, 729-748	3.5	14
20	Estimation of intensity-duration-frequency curves using max-stable processes. <i>Stochastic Environmental Research and Risk Assessment</i> , 2019 , 33, 239-252	3.5	13
19	Global-scale massive feature extraction from monthly hydroclimatic time series: Statistical characterizations, spatial patterns and hydrological similarity. <i>Science of the Total Environment</i> , 2021 , 767, 144612	10.2	11
18	Theoretical framework to estimate spatial rainfall averages conditional on river discharges and point rainfall measurements from a single location: an application to western Greece. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 1241-1263	5.5	10
17	Undersampling in action and at scale: application to the COVID-19 pandemic. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 1-3	3.5	7
16	Markov based transition probability geostatistics in groundwater applications: assumptions and limitations. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018 , 32, 2129-2146	3.5	6
15	Revisiting the Statistical Scaling of Annual Discharge Maxima at Daily Resolution with Respect to the Basin Size in the Light of Rainfall Climatology. <i>Water (Switzerland)</i> , 2020 , 12, 610	3	4
14	Explanation and Probabilistic Prediction of Hydrological Signatures with Statistical Boosting Algorithms. <i>Remote Sensing</i> , 2021 , 13, 333	5	4

13	Break of temporal symmetry in a stationary Markovian setting: evidencing an arrow of time, and parameterizing linear dependencies using fractional low-order joint moments. <i>Stochastic Environmental Research and Risk Assessment</i> , 2020 , 34, 1-6	3.5	3
12	A critical analysis of the shortcomings in spatial frequency analysis of rainfall extremes based on homogeneous regions and a comparison with a hierarchical boundaryless approach. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	3
11	Continuous hydrologic modelling for small and ungauged basins: A comparison of eight rainfall models for sub-daily runoff simulations. <i>Journal of Hydrology</i> , 2022 , 610, 127866	6	3
10	UPStream: Automated hydraulic design of pressurized water distribution networks. <i>SoftwareX</i> , 2017 , 6, 248-254	2.7	2
9	Hydrologic Impacts of Surface Elevation and Spatial Resolution in Statistical Correction Approaches: Case Study of Flumendosa Basin, Italy. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020 , 25, 05020032	1.8	2
8	ITSO: a novel inverse transform sampling-based optimization algorithm for stochastic search. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	2
7	Probabilistic estimation of minimum night flow in water distribution networks: large-scale application to the city of Patras in western Greece. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	2
6	An ERA-5 Derived CONUS-Wide High-Resolution Precipitation Dataset Based on a Refined Parametric Statistical Downscaling Framework. <i>Water Resources Research</i> , 2021 , 57, e2020WR029548	5.4	2
5	Probabilistic Minimum Night Flow Estimation in Water Distribution Networks and Comparison with the Water Balance Approach: Large-Scale Application to the City Center of Patras in Western Greece. <i>Water (Switzerland)</i> , 2022 , 14, 98	3	1
4	Climate model validation and selection for hydrological applications in representative Mediterranean catchments		1
3	Streamflow forecasting at large time scales using statistical models 2021 , 51-86		0
2	Probabilistic framework for the parametric modeling of leakages in water distribution networks: large scale application to the City of Patras in Western Greece. <i>Stochastic Environmental Research and Risk Assessment</i> ,1	3.5	0
1	A Nonparametric Procedure to Assess the Accuracy of the Normality Assumption for Annual Rainfall Totals, Based on the Marginal Statistics of Daily Rainfall: An Application to the NOAA/NCDC Rainfall Database. <i>Journal of Applied Meteorology and Climatology</i> , 2021 , 60, 595-605	2.7	