Andreas Langousis

List of Publications by Year
in descending order

50 papers	1,882 citations	304743 22 h-index	276875 41 g-index
67 all docs	67 docs citations	67 times ranked	1599 citing authors

#	Article	IF	Citations
1	A Brief Review of Random Forests for Water Scientists and Practitioners and Their Recent History in Water Resources. Water (Switzerland), 2019, 11, 910.	2.7	336
2	Multifractality and rainfall extremes: A review. Water Resources Research, 2006, 42, .	4.2	108
3	Intensity-duration-frequency curves from scaling representations of rainfall. Water Resources Research, 2007, 43, .	4.2	98
4	Threshold detection for the generalized Pareto distribution: Review of representative methods and application to the NOAA NCDC daily rainfall database. Water Resources Research, 2016, 52, 2659-2681.	4.2	91
5	Super ensemble learning for daily streamflow forecasting: large-scale demonstration and comparison with multiple machine learning algorithms. Neural Computing and Applications, 2021, 33, 3053-3068.	5.6	85
6	Comprehensive assessment and source apportionment of heavy metals in Shanghai agricultural soils with different fertility levels. Ecological Indicators, 2019, 106, 105508.	6.3	79
7	The areal reduction factor: A multifractal analysis. Water Resources Research, 2005, 41, .	4.2	78
8	HESS Opinions: &quot;Climate, hydrology, energy, water: recognizing uncertainty and seeking sustainability&quot;. Hydrology and Earth System Sciences, 2009, 13, 247-257.	4.9	71
9	Hydrological post-processing using stacked generalization of quantile regression algorithms: Large-scale application over CONUS. Journal of Hydrology, 2019, 577, 123957.	5.4	68
10	Multifractal rainfall extremes: Theoretical analysis and practical estimation. Chaos, Solitons and Fractals, 2009, 39, 1182-1194.	5.1	59
11	Regional climate models' performance in representing precipitation and temperature over selected Mediterranean areas. Hydrology and Earth System Sciences, 2013, 17, 5041-5059.	4.9	57
12	Probabilistic Hydrological Post-Processing at Scale: Why and How to Apply Machine-Learning Quantile Regression Algorithms. Water (Switzerland), 2019, 11, 2126.	2.7	51
13	A parametric approach for simultaneous bias correction and high‐resolution downscaling of climate model rainfall. Water Resources Research, 2017, 53, 2149-2170.	4.2	47
14	Theoretical model of rainfall in tropical cyclones for the assessment of long‐term risk. Journal of Geophysical Research, 2009, 114, .	3.3	44
15	New asymptotic and preasymptotic results on rainfall maxima from multifractal theory. Water Resources Research, 2009, 45, .	4.2	43
16	Marginal methods of intensity‐duration‐frequency estimation in scaling and nonscaling rainfall. Water Resources Research, 2007, 43, .	4.2	38
17	Statistical framework to simulate daily rainfall series conditional on upper-air predictor variables. Water Resources Research, 2014, 50, 3907-3932.	4.2	37
18	Spatiotemporal Infectious Disease Modeling: A BME-SIR Approach. PLoS ONE, 2013, 8, e72168.	2.5	33

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19	Assessing the relative effectiveness of statistical downscaling and distribution mapping in reproducing rainfall statistics based on climate model results. Water Resources Research, 2016, 52, 471-494.	4.2	33
20	A simple approximation to multifractal rainfall maxima using a generalized extreme value distribution model. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1525-1531.	4.0	32
21	A stochastic methodology for generation of seasonal time series reproducing overyear scaling behaviour. Journal of Hydrology, 2006, 322, 138-154.	5.4	29
22	Long‐term rainfall risk from tropical cyclones in coastal areas. Water Resources Research, 2009, 45, .	4.2	25
23	Global-scale massive feature extraction from monthly hydroclimatic time series: Statistical characterizations, spatial patterns and hydrological similarity. Science of the Total Environment, 2021, 767, 144612.	8.0	25
24	THE MAXIMUM OF MULTIFRACTAL CASCADES: EXACT DISTRIBUTION AND APPROXIMATIONS. Fractals, 2005, 13, 311-324.	3.7	24
25	SCALING AND FRACTALS IN HYDROLOGY. , 2010, , 107-243.		24
26	Probabilistic logic analysis of the highly heterogeneous spatiotemporal HFRS incidence distribution in Heilongjiang province (China) during 2005-2013. PLoS Neglected Tropical Diseases, 2019, 13, e0007091.	3.0	24
27	Quantitative assessment of annual maxima, peaks-over-threshold and multifractal parametric approaches in estimating intensity-duration-frequency curves from short rainfall records. Journal of Hydrology, 2020, 589, 125151.	5.4	24
28	Modeling of space–time infectious disease spread under conditions of uncertainty. International Journal of Geographical Information Science, 2012, 26, 1751-1772.	4.8	22
29	Comparison of two rainfall–runoff models: effects of conceptualization on water budget components. Hydrological Sciences Journal, 2017, 62, 729-748.	2.6	21
30	Estimation of intensity–duration–frequency curves using max-stable processes. Stochastic Environmental Research and Risk Assessment, 2019, 33, 239-252.	4.0	20
31	Continuous hydrologic modelling for small and ungauged basins: A comparison of eight rainfall models for sub-daily runoff simulations. Journal of Hydrology, 2022, 610, 127866.	5.4	17
32	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. Stochastic Environmental Research and Risk Assessment, 2021, 35, 2605-2628.	4.0	13
33	Theoretical framework to estimate spatial rainfall averages conditional on river discharges and point rainfall measurements from a single location: an application to western Greece. Hydrology and Earth System Sciences, 2013, 17, 1241-1263.	4.9	11
34	Markov based transition probability geostatistics in groundwater applications: assumptions and limitations. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2129-2146.	4.0	11
35	Undersampling in action and at scale: application to the COVID-19 pandemic. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1281-1283.	4.0	10
36	An ERA‐5 Derived CONUS‐Wide High‐Resolution Precipitation Dataset Based on a Refined Parametric Statistical Downscaling Framework. Water Resources Research, 2021, 57, e2020WR029548.	4.2	10

#	Article	IF	Citations
37	Explanation and Probabilistic Prediction of Hydrological Signatures with Statistical Boosting Algorithms. Remote Sensing, 2021, 13, 333.	4.0	10
38	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. Water (Switzerland), 2022, 14, 98.	2.7	10
39	The Spatiotemporal Evolution of Rainfall Extremes in a Changing Climate: A CONUS‐Wide Assessment Based on Multifractal Scaling Arguments. Earth's Future, 2022, 10, .	6.3	10
40	ITSO: a novel inverse transform sampling-based optimization algorithm for stochastic search. Stochastic Environmental Research and Risk Assessment, 2022, 36, 67-76.	4.0	7
41	Break of temporal symmetry in a stationary Markovian setting: evidencing an arrow of time, and parameterizing linear dependencies using fractional low-order joint moments. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1-6.	4.0	6
42	Revisiting the Statistical Scaling of Annual Discharge Maxima at Daily Resolution with Respect to the Basin Size in the Light of Rainfall Climatology. Water (Switzerland), 2020, 12, 610.	2.7	6
43	Probabilistic estimation of minimum night flow in water distribution networks: large-scale application to the city of Patras in western Greece. Stochastic Environmental Research and Risk Assessment, 2022, 36, 643-660.	4.0	6
44	Probabilistic Water Demand Forecasting Using Quantile Regression Algorithms. Water Resources Research, 2022, 58, .	4.2	6
45	Hydrologic Impacts of Surface Elevation and Spatial Resolution in Statistical Correction Approaches: Case Study of Flumendosa Basin, Italy. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	1.9	4
46	UPStream: Automated hydraulic design of pressurized water distribution networks. SoftwareX, 2017, 6, 248-254.	2.6	3
47	Probabilistic framework for the parametric modeling of leakages in water distribution networks: large scale application to the City of Patras in Western Greece. Stochastic Environmental Research and Risk Assessment, 0, , 1.	4.0	3
48	Statistical framework for the detection of pressure regulation malfunctions and issuance of alerts in water distribution networks. Stochastic Environmental Research and Risk Assessment, 2022, 36, 4223-4233.	4.0	2
49	Streamflow forecasting at large time scales using statistical models. , 2021, , 51-86.		1
50	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. Journal of Applied Meteorology and Climatology, 2021, 60, 595-605.	1.5	0