

# Benjamin Renard

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

3,828  
citations

147801

31  
h-index

128289

60  
g-index

74  
all docs

74  
docs citations

74  
times ranked

3964  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding predictive uncertainty in hydrologic modeling: The challenge of identifying input and structural errors. <i>Water Resources Research</i> , 2010, 46, .	4.2	589
2	Critical evaluation of parameter consistency and predictive uncertainty in hydrological modeling: A case study using Bayesian total error analysis. <i>Water Resources Research</i> , 2009, 45, .	4.2	293
3	Use of a Gaussian copula for multivariate extreme value analysis: Some case studies in hydrology. <i>Advances in Water Resources</i> , 2007, 30, 897-912.	3.8	267
4	Toward a reliable decomposition of predictive uncertainty in hydrological modeling: Characterizing rainfall errors using conditional simulation. <i>Water Resources Research</i> , 2011, 47, .	4.2	172
5	Combining hydraulic knowledge and uncertain gaugings in the estimation of hydrometric rating curves: A Bayesian approach. <i>Journal of Hydrology</i> , 2014, 509, 573-587.	5.4	146
6	Regional methods for trend detection: Assessing field significance and regional consistency. <i>Water Resources Research</i> , 2008, 44, .	4.2	129
7	Low flows in France and their relationship to large-scale climate indices. <i>Journal of Hydrology</i> , 2013, 482, 105-118.	5.4	123
8	Climate-driven variability in the occurrence of major floods across North America and Europe. <i>Journal of Hydrology</i> , 2017, 552, 704-717.	5.4	122
9	A global analysis of the asymmetric effect of ENSO on extreme precipitation. <i>Journal of Hydrology</i> , 2015, 530, 51-65.	5.4	117
10	A Comparison of Methods for Streamflow Uncertainty Estimation. <i>Water Resources Research</i> , 2018, 54, 7149-7176.	4.2	108
11	Experimental studies on fragmentation of rock falls on impact with rock surfaces. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009, 46, 708-715.	5.8	93
12	A Bayesian hierarchical approach to regional frequency analysis. <i>Water Resources Research</i> , 2011, 47, .	4.2	91
13	Statistical analysis of extreme events in a non-stationary context via a Bayesian framework: case study with peak-over-threshold data. <i>Stochastic Environmental Research and Risk Assessment</i> , 2006, 21, 97-112.	4.0	89
14	Trends in snowmelt-related streamflow timing in the conterminous United States. <i>Journal of Hydrology</i> , 2017, 547, 208-221.	5.4	88
15	Effects of climate, regulation, and urbanization on historical flood trends in the United States. <i>Journal of Hydrology</i> , 2019, 573, 697-709.	5.4	78
16	Extrapolation of rating curves by hydraulic modelling, with application to flood frequency analysis. <i>Hydrological Sciences Journal</i> , 2010, 55, 883-898.	2.6	77
17	Flood frequency analysis using historical data: accounting for random and systematic errors. <i>Hydrological Sciences Journal</i> , 2010, 55, 192-208.	2.6	71
18	There are no hydrological monsters, just models and observations with large uncertainties!. <i>Hydrological Sciences Journal</i> , 2010, 55, 980-991.	2.6	68

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19	A general regional frequency analysis framework for quantifying local-scale climate effects: A case study of ENSO effects on Southeast Queensland rainfall. <i>Journal of Hydrology</i> , 2014, 512, 53-68.	5.4	66
20	An application of Bayesian analysis and Markov chain Monte Carlo methods to the estimation of a regional trend in annual maxima. <i>Water Resources Research</i> , 2006, 42, .	4.2	65
21	Multi-scale hydrometeorological observation and modelling for flash flood understanding. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3733-3761.	4.9	61
22	Evaluation of statistical models for forecast errors from the HBV model. <i>Journal of Hydrology</i> , 2010, 384, 142-155.	5.4	60
23	Low streamflow trends at human-impacted and reference basins in the United States. <i>Journal of Hydrology</i> , 2020, 580, 124254.	5.4	59
24	Bayesian Methods for Non-stationary Extreme Value Analysis. <i>Water Science and Technology Library</i> , 2013, , 39-95.	0.3	57
25	Data-based comparison of frequency analysis methods: A general framework. <i>Water Resources Research</i> , 2013, 49, 825-843.	4.2	55
26	Impact of Stage Measurement Errors on Streamflow Uncertainty. <i>Water Resources Research</i> , 2018, 54, 1952-1976.	4.2	50
27	Trends in the hydrologic regime of Alpine rivers. <i>Journal of Hydrology</i> , 2015, 529, 1823-1837.	5.4	48
28	Calibrating a hydrological model in stage space to account for rating curve uncertainties: general framework and key challenges. <i>Advances in Water Resources</i> , 2017, 105, 51-66.	3.8	44
29	Reliability and robustness of rainfall compound distribution model based on weather pattern sub-sampling. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 519-532.	4.9	42
30	Integrating hydropower and intermittent climate-related renewable energies: a call for hydrology. <i>Hydrological Processes</i> , 2014, 28, 5465-5468.	2.6	38
31	Regional frequency analysis conditioned on large-scale atmospheric or oceanic fields. <i>Water Resources Research</i> , 2014, 50, 9536-9554.	4.2	37
32	A limited-memory acceleration strategy for MCMC sampling in hierarchical Bayesian calibration of hydrological models. <i>Water Resources Research</i> , 2010, 46, .	4.2	32
33	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. <i>Proceedings of the International Association of Hydrological Sciences</i> , 0, 370, 89-95.	1.0	32
34	Shift Happens! Adjusting Stage-Discharge Rating Curves to Morphological Changes at Known Times. <i>Water Resources Research</i> , 2019, 55, 2876-2899.	4.2	30
35	A data-based comparison of flood frequency analysis methods used in France. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 295-308.	3.6	28
36	Bayesian analysis of stage-fall discharge rating curves and their uncertainties. <i>Water Resources Research</i> , 2016, 52, 7424-7443.	4.2	28

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37	The ENSOâ€“Precipitation Teleconnection and Its Modulation by the Interdecadal Pacific Oscillation. <i>Journal of Climate</i> , 2015, 28, 4753-4773.	3.2	25
38	Impact of Melon Accessions Resistant to Aphids on the Demographic Potential of Silverleaf Whitefly. <i>Journal of Economic Entomology</i> , 2005, 98, 557-567.	1.8	23
39	Stream Solutes and Particulates Export Regimes: A New Framework to Optimize Their Monitoring. <i>Frontiers in Ecology and Evolution</i> , 2020, 7, .	2.2	18
40	Comment on â€œAn integrated hydrologic Bayesian multimodel combination framework: Confronting input, parameter, and model structural uncertainty in hydrologic predictionâ€“by Newsha K. Ajami et al.. <i>Water Resources Research</i> , 2009, 45, .	4.2	17
41	Evolution des extrÃªmes hydromÃ©triques en France Ã partir de donnÃ©es observÃ©es. <i>Houille Blanche</i> , 2006, 92, 48-54.	0.3	15
42	Groundwater-level trends in the U.S. glacial aquifer system, 1964â€“2013. <i>Journal of Hydrology</i> , 2017, 553, 289-303.	5.4	15
43	The open source RFortran library for accessing R from Fortran, with applications in environmental modelling. <i>Environmental Modelling and Software</i> , 2011, 26, 219-234.	4.5	14
44	Revealing Hidden Climate Indices from the Occurrence of Hydrologic Extremes. <i>Water Resources Research</i> , 2019, 55, 7662-7681.	4.2	14
45	Estimating the uncertainty of videoâ€“based flow velocity and discharge measurements due to the conversion of field to image coordinates. <i>Hydrological Processes</i> , 2021, 35, e14169.	2.6	14
46	Decomposition of Uncertainty Sources in Acoustic Doppler Current Profiler Streamflow Measurements Using Repeated Measures Experiments. <i>Water Resources Research</i> , 2019, 55, 7520-7540.	4.2	12
47	Bayesian trend analysis in annual rainfall total, duration and maximum in the Kara River basin (West) Tj ETQq1 1 0.784314 rgBT /Over	2.4	11
48	A Rating Curve Model Accounting for Cyclic Stageâ€“Discharge Shifts due to Seasonal Aquatic Vegetation. <i>Water Resources Research</i> , 2021, 57, e2020WR027745.	4.2	10
49	RÃ©sultats du projet ExtraFlo (ANR 2009-2013) sur l'estimation des pluies et crues extrÃªmes. <i>Houille Blanche</i> , 2014, , 5-13.	0.3	9
50	Combining regional estimation and historical floods: A multivariate semiparametric peaksâ€“overâ€“threshold model with censored data. <i>Water Resources Research</i> , 2015, 51, 9646-9664.	4.2	8
51	Analyse bayÃ©sienne des courbes de tarage et de leurs incertitudes : la mÃ©thode BaRatin. <i>Houille Blanche</i> , 2013, 99, 31-41.	0.3	8
52	Tendances observÃ©es sur les rÃ©gimes hydrologiques de lâ€™Arc Alpin. <i>Houille Blanche</i> , 2012, 98, 38-43.	0.3	7
53	RÃ©sultats du projet Extraflo sur la comparaison des mÃ©thodes d'estimation des pluies extrÃªmes en France. <i>Houille Blanche</i> , 2014, , 14-19.	0.3	6
54	Ã‰tude du risque d'inondation d'un site industriel par des crues extrÃªmes: de l'Ã©valuation des valeurs extrÃªmes aux incertitudes hydrologiques et hydrauliques. <i>Houille Blanche</i> , 2015, 101, 67-74.	0.3	6

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55	Analyse régionale sur les extrêmes hydrométriques en France: détection de changements cohérents et recherche de causalité hydrologique. Houille Blanche, 2007, 93, 83-89.	0.3	6
56	A generalised approach for identifying influential data in hydrological modelling. Environmental Modelling and Software, 2019, 111, 231-247.	4.5	5
57	Detection of Stage-Discharge Rating Shifts Using Gaugings: A Recursive Segmentation Procedure Accounting for Observational and Model Uncertainties. Water Resources Research, 2021, 57, e2020WR028607.	4.2	5
58	A Hidden Climate Indices Modeling Framework for Multivariable Space-Time Data. Water Resources Research, 2022, 58, .	4.2	4
59	Streamflow uncertainty due to the limited sensitivity of controls at hydrometric stations. Hydrological Processes, 2022, 36, .	2.6	3
60	Détection et prise en compte d'éventuels impacts du changement climatique sur les extrêmes hydrologiques en France. Houille Blanche, 2008, 94, 109-117.	0.3	2
61	Scrutinizing Parameter Consistency and Predictive Uncertainty in Rainfall-Runoff Models Using Bayesian Total Error Analysis. , 2008, , .		1
62	Estimating the long-term evolution of river bed levels using hydrometric data. E3S Web of Conferences, 2018, 40, 06003.	0.5	1
63	BaRatin-SFD, analyse bayésienne des courbes de tarage à double échelle et de leurs incertitudes. Houille Blanche, 2017, 103, 22-28.	0.3	1
64	Méthode de consolidation des courbes de tarage pour les crues d'occurrence rare sur le bassin versant expérimental du Real Collobrier. Houille Blanche, 2013, 99, 16-23.	0.3	1
65	Bayesian analysis of rating curves at twin gauge stations. , 2016, , .		1
66	Impact de la sensibilité des contraintes hydrauliques sur les incertitudes hydrométriques. Houille Blanche, 2018, 104, 27-35.	0.3	1
67	Estimating time-varying stage-discharge relations in rivers with aquatic vegetation. , 2020, , 1536-1543.		1
68	Estimation bayésienne des courbes de tarage et des incertitudes associées: application de la méthode BaRatin au Congo à Brazzaville. Proceedings of the International Association of Hydrological Sciences, 0, 384, 25-29.	1.0	1
69	Investigating the Impact of Predictive Uncertainty in Rainfall-Runoff Modelling on Storage Reliability Estimates Using Bayesian Total Error Analysis. , 2008, , .		0
70	Observations d'événements extrêmes historiques dans le monde, selon les climats et les réseaux de mesure. Houille Blanche, 2006, 92, 60-65.	0.3	0