

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	Streamflow uncertainty due to the limited sensitivity of controls at hydrometric stations. <i>Hydrological Processes</i> , 2022, 36, .	2.6	3
2	A Hidden Climate Indices Modeling Framework for Multivariable Space-Time Data. <i>Water Resources Research</i> , 2022, 58, .	4.2	4
3	A Rating Curve Model Accounting for Cyclic Stage-Discharge Shifts due to Seasonal Aquatic Vegetation. <i>Water Resources Research</i> , 2021, 57, e2020WR027745.	4.2	10
4	Detection of Stage-Discharge Rating Shifts Using Gaugings: A Recursive Segmentation Procedure Accounting for Observational and Model Uncertainties. <i>Water Resources Research</i> , 2021, 57, e2020WR028607.	4.2	5
5	Estimating the uncertainty of video-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
6	Low streamflow trends at human-impacted and reference basins in the United States. <i>Journal of Hydrology</i> , 2020, 580, 124254.	5.4	59
7	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
8	Estimating time-varying stage-discharge relations in rivers with aquatic vegetation. , 2020, , 1536-1543.		1
9	A generalised approach for identifying influential data in hydrological modelling. <i>Environmental Modelling and Software</i> , 2019, 111, 231-247.	4.5	5
10	Revealing Hidden Climate Indices from the Occurrence of Hydrologic Extremes. <i>Water Resources Research</i> , 2019, 55, 7662-7681.	4.2	14
11	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
12	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
13	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
14	Impact of Stage Measurement Errors on Streamflow Uncertainty. <i>Water Resources Research</i> , 2018, 54, 1952-1976.	4.2	50
15	Estimating the long-term evolution of river bed levels using hydrometric data. <i>E3S Web of Conferences</i> , 2018, 40, 06003.	0.5	1
16	A Comparison of Methods for Streamflow Uncertainty Estimation. <i>Water Resources Research</i> , 2018, 54, 7149-7176.	4.2	108
17	Impact de la sensibilit� des contr�les hydrauliques sur les incertitudes hydrom�triques. <i>Houille Blanche</i> , 2018, 104, 27-35.	0.3	1
18	Trends in snowmelt-related streamflow timing in the conterminous United States. <i>Journal of Hydrology</i> , 2017, 547, 208-221.	5.4	88

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19	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
20	Bayesian trend analysis in annual rainfall total, duration and maximum in the Kara River basin (West) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.4	11
21	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
22	Groundwater-level trends in the U.S. glacial aquifer system, 1964â€“2013. <i>Journal of Hydrology</i> , 2017, 553, 289-303.	5.4	15
23	BaRatin-SFD, analyse bayÃ©sienne des courbes de tarage Ã double Ã©chelle et de leurs incertitudes. <i>Houille Blanche</i> , 2017, 103, 22-28.	0.3	1
24	Bayesian analysis of stageâ€“fallâ€“discharge rating curves and their uncertainties. <i>Water Resources Research</i> , 2016, 52, 7424-7443.	4.2	28
25	Bayesian analysis of rating curves at twin gauge stations. , 2016, , .		1
26	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
27	The ENSOâ€“Precipitation Teleconnection and Its Modulation by the Interdecadal Pacific Oscillation. <i>Journal of Climate</i> , 2015, 28, 4753-4773.	3.2	25
28	Trends in the hydrologic regime of Alpine rivers. <i>Journal of Hydrology</i> , 2015, 529, 1823-1837.	5.4	48
29	A global analysis of the asymmetric effect of ENSO on extreme precipitation. <i>Journal of Hydrology</i> , 2015, 530, 51-65.	5.4	117
30	Ã©tude du risque d'inondation d'un site industriel par des crues extrÃªmesÃ: de l'Ã©valuation des valeurs extrÃªmes aux incertitudes hydrologiques et hydrauliques. <i>Houille Blanche</i> , 2015, 101, 67-74.	0.3	6
31	Multi-scale hydrometeorological observation and modelling for flash flood understanding. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3733-3761.	4.9	61
32	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
33	Integrating hydropower and intermittent climateâ€“related renewable energies: a call for hydrology. <i>Hydrological Processes</i> , 2014, 28, 5465-5468.	2.6	38
34	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
35	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
36	Regional frequency analysis conditioned on large-scale atmospheric or oceanic fields. <i>Water Resources Research</i> , 2014, 50, 9536-9554.	4.2	37

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37	Résultats du projet ExtraFlo (ANR 2009-2013) sur l'estimation des pluies et crues extrêmes. Houille Blanche, 2014, , 5-13.	0.3	9
38	Résultats du projet Extraflo sur la comparaison des méthodes d'estimation des pluies extrêmes en France. Houille Blanche, 2014, , 14-19.	0.3	6
39	Low flows in France and their relationship to large-scale climate indices. Journal of Hydrology, 2013, 482, 105-118.	5.4	123
40	Bayesian Methods for Non-stationary Extreme Value Analysis. Water Science and Technology Library, 2013, , 39-95.	0.3	57
41	Data-based comparison of frequency analysis methods: A general framework. Water Resources Research, 2013, 49, 825-843.	4.2	55
42	Analyse bayésienne des courbes de tarage et de leurs incertitudes : la méthode BaRatin. Houille Blanche, 2013, 99, 31-41.	0.3	8
43	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
44	Tendances observées sur les régimes hydrologiques de l'Arc Alpin. Houille Blanche, 2012, 98, 38-43.	0.3	7
45	A Bayesian hierarchical approach to regional frequency analysis. Water Resources Research, 2011, 47, .	4.2	91
46	Toward a reliable decomposition of predictive uncertainty in hydrological modeling: Characterizing rainfall errors using conditional simulation. Water Resources Research, 2011, 47, .	4.2	172
47	The open source RFortran library for accessing R from Fortran, with applications in environmental modelling. Environmental Modelling and Software, 2011, 26, 219-234.	4.5	14
48	Reliability and robustness of rainfall compound distribution model based on weather pattern sub-sampling. Hydrology and Earth System Sciences, 2011, 15, 519-532.	4.9	42
49	Evaluation of statistical models for forecast errors from the HBV model. Journal of Hydrology, 2010, 384, 142-155.	5.4	60
50	Flood frequency analysis using historical data: accounting for random and systematic errors. Hydrological Sciences Journal, 2010, 55, 192-208.	2.6	71
51	Extrapolation of rating curves by hydraulic modelling, with application to flood frequency analysis. Hydrological Sciences Journal, 2010, 55, 883-898.	2.6	77
52	There are no hydrological monsters, just models and observations with large uncertainties!. Hydrological Sciences Journal, 2010, 55, 980-991.	2.6	68
53	Understanding predictive uncertainty in hydrologic modeling: The challenge of identifying input and structural errors. Water Resources Research, 2010, 46, .	4.2	589
54	A limited-memory acceleration strategy for MCMC sampling in hierarchical Bayesian calibration of hydrological models. Water Resources Research, 2010, 46, .	4.2	32

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55	Experimental studies on fragmentation of rock falls on impact with rock surfaces. International Journal of Rock Mechanics and Minings Sciences, 2009, 46, 708-715.	5.8	93
56	Critical evaluation of parameter consistency and predictive uncertainty in hydrological modeling: A case study using Bayesian total error analysis. Water Resources Research, 2009, 45, .	4.2	293
57	Comment on "An integrated hydrologic Bayesian multimodel combination framework: Confronting input, parameter, and model structural uncertainty in hydrologic prediction" by Newsha K. Ajami et al.. Water Resources Research, 2009, 45, .	4.2	17
58	Regional methods for trend detection: Assessing field significance and regional consistency. Water Resources Research, 2008, 44, .	4.2	129
59	Investigating the Impact of Predictive Uncertainty in Rainfall-Runoff Modelling on Storage Reliability Estimates Using Bayesian Total Error Analysis. , 2008, , .		0
60	Scrutinizing Parameter Consistency and Predictive Uncertainty in Rainfall-Runoff Models Using Bayesian Total Error Analysis. , 2008, , .		1
61	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
62	Use of a Gaussian copula for multivariate extreme value analysis: Some case studies in hydrology. Advances in Water Resources, 2007, 30, 897-912.	3.8	267
63	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
64	An application of Bayesian analysis and Markov chain Monte Carlo methods to the estimation of a regional trend in annual maxima. Water Resources Research, 2006, 42, .	4.2	65
65	Evolution des extrêmes hydrométriques en France à partir de données observées. Houille Blanche, 2006, 92, 48-54.	0.3	15
66	Statistical analysis of extreme events in a non-stationary context via a Bayesian framework: case study with peak-over-threshold data. Stochastic Environmental Research and Risk Assessment, 2006, 21, 97-112.	4.0	89
67	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
68	Impact of Melon Accessions Resistant to Aphids on the Demographic Potential of Silverleaf Whitefly. Journal of Economic Entomology, 2005, 98, 557-567.	1.8	23
69	A European Flood Database: facilitating comprehensive flood research beyond administrative boundaries. Proceedings of the International Association of Hydrological Sciences, 0, 370, 89-95.	1.0	32
70	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