

Michel Lang

List of Publications by Year in descending order

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85
papers

4,431
citations

186265
28
h-index

110387
64
g-index

95
all docs

95
docs citations

95
times ranked

4196
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards operational guidelines for over-threshold modeling. <i>Journal of Hydrology</i> , 1999, 225, 103-117.	5.4	533
2	Review of trend analysis and climate change projections of extreme precipitation and floods in Europe. <i>Journal of Hydrology</i> , 2014, 519, 3634-3650.	5.4	459
3	Understanding flood regime changes in Europe: a state-of-the-art assessment. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2735-2772.	4.9	423
4	The Catastrophic Flash-Flood Event of 8 th September 2002 in the Gard Region, France: A First Case Study for the CÃ©vennes-Vivarais Mediterranean Hydrometeorological Observatory. <i>Journal of Hydrometeorology</i> , 2005, 6, 34-52.	1.9	333
5	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
6	Use of Systematic, Palaeoflood and Historical Data for the Improvement of Flood Risk Estimation. Review of Scientific Methods. <i>Natural Hazards</i> , 2004, 31, 623-643.	3.4	234
7	Regional methods for trend detection: Assessing field significance and regional consistency. <i>Water Resources Research</i> , 2008, 44, .	4.2	129
8	A global analysis of the asymmetric effect of ENSO on extreme precipitation. <i>Journal of Hydrology</i> , 2015, 530, 51-65.	5.4	117
9	Documentary evidence of past floods in Europe and their utility in flood frequency estimation. <i>Journal of Hydrology</i> , 2014, 517, 963-973.	5.4	116
10	Flood frequency analysis on the ArdÃ©che river using French documentary sources from the last two centuries. <i>Journal of Hydrology</i> , 2005, 313, 58-78.	5.4	95
11	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
12	Stationarity analysis of historical flood series in France and Spain (14 th –20 th centuries). <i>Natural Hazards and Earth System Sciences</i> , 2003, 3, 583-592.	3.6	82
13	Development of regional flood-duration–frequency curves based on the index-flood method. <i>Journal of Hydrology</i> , 2002, 258, 249-259.	5.4	81
14	Identification of coherent flood regions across Europe by using the longest streamflow records. <i>Journal of Hydrology</i> , 2015, 528, 341-360.	5.4	79
15	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
16	Introducing a rainfall compound distribution model based on weather patterns sub-sampling. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 951-964.	4.9	73
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	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

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19	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
20	How uncertainty analysis of streamflow data can reduce costs and promote robust decisions in water management applications. <i>Water Resources Research</i> , 2017, 53, 5220-5228.	4.2	60
21	Bayesian Methods for Non-stationary Extreme Value Analysis. <i>Water Science and Technology Library</i> , 2013, , 39-95.	0.3	57
22	Paleofloods and historical floods of the Ardèche River, France. <i>Water Resources Research</i> , 2003, 39, .	4.2	56
23	Data-based comparison of frequency analysis methods: A general framework. <i>Water Resources Research</i> , 2013, 49, 825-843.	4.2	55
24	Daily quantitative precipitation forecasts based on the analogue method: Improvements and application to a French large river basin. <i>Atmospheric Research</i> , 2016, 169, 147-159.	4.1	54
25	The flood probability distribution tail: how heavy is it?. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008, 22, 107-122.	4.0	50
26	Use of documentary sources on past flood events for flood risk management and land planning. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 644-650.	1.2	48
27	Trends in the hydrologic regime of Alpine rivers. <i>Journal of Hydrology</i> , 2015, 529, 1823-1837.	5.4	48
28	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
29	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
30	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
31	Assessing changes in urban flood vulnerability through mapping land use from historical information. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 161-173.	4.9	28
32	Bayesian analysis of stage-fall discharge rating curves and their uncertainties. <i>Water Resources Research</i> , 2016, 52, 7424-7443.	4.2	28
33	Bayesian comparison of different rainfall depth-duration-frequency relationships. <i>Stochastic Environmental Research and Risk Assessment</i> , 2008, 22, 33-46.	4.0	27
34	Why the IPCC should evolve in response to the UNFCCC bottom-up strategy adopted in Paris? An opinion from the French Association for Disaster Risk Reduction. <i>Environmental Science and Policy</i> , 2017, 78, 142-148.	4.9	26
35	A multidating approach applied to historical slackwater flood deposits of the Gardon River, SE France. <i>Geomorphology</i> , 2014, 214, 56-68.	2.6	22
36	Synthèse de méthodes régionales d'estimation de crue utilisées en France et au Québec. <i>Revue Des Sciences De L'Eau</i> , 1999, 12, 155-182.	0.2	21

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37	Uncertainties of extreme rainfall quantiles estimated by a stochastic rainfall model and by a generalized Pareto distribution / Incertitudes des quantiles extrêmes de pluie estimés par un modèle stochastique d'averses et par une loi de Pareto généralisée. Hydrological Sciences Journal, 2009, 54, 417-429.	2.6	20
38	Precipitation forecasting through an analog sorting technique: a comparative study. Advances in Geosciences, 0, 29, 103-107.	12.0	19
39	Comparative hazard analysis of processes leading to remarkable flash floods (France, 1930-1999). Journal of Hydrology, 2016, 541, 533-552.	5.4	16
40	La prévision des précipitations par recherche d'analogues : État de l'art et perspectives. Houille Blanche, 2009, 95, 60-65.	0.3	16
41	Incertitudes sur les débits de crue. Houille Blanche, 2006, 92, 33-41.	0.3	16
42	Evolution des extrêmes hydrométriques en France à partir de données observées. Houille Blanche, 2006, 92, 48-54.	0.3	15
43	Échantillonnage par valeurs supérieures à un seuil: modélisation des occurrences par la méthode du renouvellement. Revue Des Sciences De L'Eau, 1997, 10, 279-320.	0.2	13
44	Floods in the Alpine Areas of Europe. , 2019, , 362-371.		12
45	Reconstitution hydrométemporologique de la crue de l'Isère de 1859. Houille Blanche, 2011, 97, 44-50.	0.3	12
46	L'estimation des volumes des laves torrentielles: méthodes disponibles et application au torrent du Poucet (Savoie). Bulletin of Engineering Geology and the Environment, 2002, 61, 389-402.	3.5	11
47	Collaboration between Historians and Hydrologists on the Ardeche River (France). Advances in Natural and Technological Hazards Research, 2001, , 113-129.	1.1	11
48	Les inondations remarquables en France: premiers éléments issus de l'enquête EPRI 2011. Houille Blanche, 2013, , 37-47.	0.3	11
49	Theoretical discussion and Monte-Carlo simulations for a Negative Binomial process paradox. Stochastic Environmental Research and Risk Assessment, 1999, 13, 183-200.	4.0	9
50	Comparison of 850-hPa relative humidity between ERA-40 and NCEP/NCAR re-analyses: detection of suspicious data in ERA-40. Atmospheric Science Letters, 2009, 10, 43-47.	1.9	9
51	Floods in France. , 2019, , 199-211.		9
52	Résultats du projet ExtraFlo (ANR 2009-2013) sur l'estimation des pluies et crues extrêmes. Houille Blanche, 2014, , 5-13.	0.3	9
53	Étude de cas: l'analyse des pluies et crues extrêmes observées depuis 200 ans dans un bassin versant, l'Ardèche. Houille Blanche, 2002, 88, 131-138.	0.3	8
54	Crues en Europe Centrale depuis l'an 1300 et dans leur contexte régional. Houille Blanche, 2004, 90, 43-49.	0.3	8

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55	Comparaison de différents modes d'échantillonnage pour l'estimation du gradex des pluies. Revue Des Sciences De L'Eau, 0, 20, 111-125.	0.2	7
56	Les annuaires hydrologiques de la Société hydrotechnique de France: une source d'information patrimoniale pour la connaissance de l'hydrologie en France. Houille Blanche, 2015, , 66-77.	0.3	7
57	BDHI: a French national database on historical floods. E3S Web of Conferences, 2016, 7, 04010.	0.5	7
58	L'historien, l'hydraulicien et l'hydrologue et la connaissance des inondations. Houille Blanche, 2002, 88, 61-66.	0.3	7
59	Tendances observées sur les régimes hydrologiques de l'Arc Alpin. Houille Blanche, 2012, 98, 38-43.	0.3	7
60	Reconstitution des crues extrêmes du Gardon à partir d'une analyse paléohydrologique. Houille Blanche, 2014, 100, 44-52.	0.3	7
61	Extrêmes et multifractals en hydrologie: résultats, validations et perspectives. Houille Blanche, 2006, 92, 112-119.	0.3	7
62	L'information historique des inondations : l'histoire ne donne-t-elle que des leçons ?. Houille Blanche, 2000, 86, 79-84.	0.3	6
63	Résultats du projet Extraflo sur la comparaison des méthodes d'estimation des pluies extrêmes en France. Houille Blanche, 2014, , 14-19.	0.3	6
64	Étude du risque d'inondation d'un site industriel par des crues extrêmes: de l'évaluation des valeurs extrêmes aux incertitudes hydrologiques et hydrauliques. Houille Blanche, 2015, 101, 67-74.	0.3	6
65	Analyse régionale sur les extrêmes hydrométéorologiques en France: détection de changements cohérents et recherche de causalité hydrologique. Houille Blanche, 2007, 93, 83-89.	0.3	6
66	Influence of warming and atmospheric circulation changes on multidecadal European flood variability. Climate of the Past, 2022, 18, 919-933.	3.4	6
67	Valorisation des données de jaugeages épisodiques pour l'estimation du débit de référence d'étiage QMNA5. Houille Blanche, 2014, 100, 78-87.	0.3	5
68	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
69	Peut-on étendre l'échance de prévision des crues en optimisant la prévision de pluies par recherche d'analogues ? Application au bassin de la Seine à Paris. Houille Blanche, 2011, 97, 37-43.	0.3	5
70	Predicting the flow in the floodplains with evolving land occupations during extreme flood events (FlowRes ANR project). E3S Web of Conferences, 2016, 7, 04004.	0.5	3
71	The Contribution of Historical Data for the Understanding of Floods and Risk Prevention. , 2017, , 227-239.		3
72	Preliminary flood risk assessment for the European Directive. , 2012, , .		3

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73	Lessons from analysing mortality from six major flood events in France(1930-2010). E3S Web of Conferences, 2016, 7, 06005.	0.5	2
74	Analysis of Major Flood Events: Collapse of the Malpasset Dam, December 1959. , 2017, , 3-19.		2
75	Rethinking IPCC Expertise from a Multi-actor Perspective. Springer Climate, 2018, , 49-63.	0.6	2
76	Analyse hydrologique de la crue-Ã©clair catastrophique du 15â€‰juin 2010 dans la rÃ©gion de Draguignan (VAR, France). Houille Blanche, 2019, 105, 140-148.	0.3	2
77	Les Ã©chelles de gravitÃ© sur les inondations : rÃ©flexion nationale et exemple dans lâ€™HÃ©rault. Houille Blanche, 2005, 91, 52-59.	0.3	2
78	A framework for detecting stage-discharge hysteresis due to flow unsteadiness: Application to Franceâ€™s national hydrometry network. Journal of Hydrology, 2022, 608, 127567.	5.4	2
79	Flood Regimes: Recent Development and Future Under Climate Change. , 2017, , 299-309.		1
80	Estimating the long-term evolution of river bed levels using hydrometric data. E3S Web of Conferences, 2018, 40, 06003.	0.5	1
81	BaRatin-SFD, analyse bayÃ©sienne des courbes de tarage Ã© double Ã©chelle et de leurs incertitudes. Houille Blanche, 2017, 103, 22-28.	0.3	1
82	Bayesian analysis of rating curves at twin gauge stations. , 2016, , .		1
83	Ã©HydromÃ©trie 2017Ã©: mesures et incertitudesÃ© Bilan sur le colloque des 14 et 15 mars 2017 Ã© Villeurbanne. Houille Blanche, 2017, 103, 79-80.	0.3	0
84	Bilan scientifique du colloque FLOODRisk 2016 Ã© Lyon, du 17 au 21 octobre 2016. Houille Blanche, 2017, 103, 5-8.	0.3	0
85	Xynthiaâ€‰: analyse des causes et des consÃ©quences de la catastrophe. Houille Blanche, 2019, 105, 149-156.	0.3	0