

Jean-Luc Bertrand-Krajewski

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,217
citations

566801

15
h-index

223531

46
g-index

60
all docs

60
docs citations

60
times ranked

2413
citing authors

#	ARTICLE	IF	CITATIONS
1	SUDS, LID, BMPs, WSUD and more – The evolution and application of terminology surrounding urban drainage. <i>Urban Water Journal</i> , 2015, 12, 525-542.	1.0	1,134
2	Distribution of pollutant mass vs volume in stormwater discharges and the first flush phenomenon. <i>Water Research</i> , 1998, 32, 2341-2356.	5.3	365
3	The use of long-term on-line turbidity measurements for the calculation of urban stormwater pollutant concentrations, loads, pollutographs and intra-event fluxes. <i>Water Research</i> , 2012, 46, 6836-6856.	5.3	90
4	Stormwater pollutant loads modelling: epistemological aspects and case studies on the influence of field data sets on calibration and verification. <i>Water Science and Technology</i> , 2007, 55, 1-17.	1.2	63
5	Calibration of UV/Vis spectrophotometers: A review and comparison of different methods to estimate TSS and total and dissolved COD concentrations in sewers, WWTPs and rivers. <i>Water Research</i> , 2016, 101, 519-534.	5.3	58
6	Need for improved methodologies and measurements for sustainable management of urban water systems. <i>Environmental Impact Assessment Review</i> , 2000, 20, 323-331.	4.4	50
7	Standardized uncertainty analysis for hydrometry: a review of relevant approaches and implementation examples. <i>Hydrological Sciences Journal</i> , 2012, 57, 643-667.	1.2	36
8	Computational fluid dynamics modelling of flow and particulate contaminants sedimentation in an urban stormwater detention and settling basin. <i>Environmental Science and Pollution Research</i> , 2014, 21, 5347-5356.	2.7	31
9	Numerical simulation of flushing effect on sewer sediments and comparison of four sediment transport formulas. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 195-202.	0.7	24
10	Separately accounting for uncertainties in rainfall and runoff: Calibration of event-based conceptual hydrological models in small urban catchments using Bayesian method. <i>Water Resources Research</i> , 2013, 49, 5381-5394.	1.7	24
11	Design and performance evaluation of a simplified dynamic model for combined sewer overflows in pumped sewer systems. <i>Journal of Hydrology</i> , 2016, 538, 609-624.	2.3	24
12	Typology of the flow structures in dividing open channel flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 63-71.	0.7	19
13	Long term monitoring of sewer sediment accumulation and flushing experiments in a man-entry sewer. <i>Water Science and Technology</i> , 2006, 54, 109-117.	1.2	18
14	Integrated urban stormwater management: Evolution and multidisciplinary perspective. <i>Journal of Hydro-Environment Research</i> , 2021, 38, 72-83.	1.0	17
15	On calibration data selection: The case of stormwater quality regression models. <i>Environmental Modelling and Software</i> , 2012, 35, 61-73.	1.9	16
16	Measurement of sewer sediments with acoustic technology: from laboratory to field experiments. <i>Urban Water Journal</i> , 2017, 14, 369-377.	1.0	16
17	Accuracy of different sensors for the estimation of pollutant concentrations (total suspended) and Technology, 2013, 68, 462-471.	1.2	14
18	Comparison of two model based approaches for areal rainfall estimation in urban hydrology. <i>Journal of Hydrology</i> , 2014, 511, 880-890.	2.3	13

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19	Influence of local calibration on the quality of online wet weather discharge monitoring: feedback from five international case studies. <i>Water Science and Technology</i> , 2015, 71, 45-51.	1.2	13
20	Modélisation du transport solide en réseau d'assainissement unitaire : le modèle HYPOCRAS. <i>Houille Blanche</i> , 1993, 79, 243-255.	0.3	12
21	Optimisation of pressurised liquid extraction for the ultra-trace quantification of 20 priority substances from the European Water Framework Directive in atmospheric particles by GC-MS and LC-MS/MS. <i>Analytica Chimica Acta</i> , 2011, 693, 47-53.	2.6	12
22	Modelling daily and hourly loads of pharmaceuticals in urban wastewater. <i>International Journal of Hygiene and Environmental Health</i> , 2020, 229, 113552.	2.1	12
23	Comparison of and uncertainties in raw sewage COD measurements by laboratory techniques and field UV-visible spectrometry. <i>Water Science and Technology</i> , 2007, 56, 17-25.	1.2	11
24	Using a Bayesian approach to improve and calibrate a dynamic model of polycyclic aromatic hydrocarbons degradation in an industrial contaminated soil. <i>Environmental Pollution</i> , 2016, 215, 27-37.	3.7	11
25	Revisiting conceptual stormwater quality models by reconstructing virtual state variables. <i>Water Science and Technology</i> , 2018, 78, 655-663.	1.2	11
26	Implications of long-term stormwater quality modelling for design of combined sewer infrastructure. <i>Urban Water Journal</i> , 2011, 8, 155-166.	1.0	10
27	Numerical investigation of particles transport, deposition and resuspension under unsteady conditions in constructed stormwater ponds. <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	10
28	Mesurages en continu des flux polluants particulaires en réseaux d'assainissement urbains: enjeux, méthodes, exemple d'application. <i>Houille Blanche</i> , 2008, 94, 49-57.	0.3	9
29	Rhodamine WT tracer experiments to check flow measurements in sewers. <i>Flow Measurement and Instrumentation</i> , 2014, 40, 28-38.	1.0	9
30	Sizing Ratios for Stormwater Treatment Facilities. , 2002, , 1.		8
31	Input variable selection and calibration data selection for storm water quality regression models. <i>Water Science and Technology</i> , 2013, 68, 50-58.	1.2	8
32	Simplified hydraulic model of French vertical-flow constructed wetlands. <i>Water Science and Technology</i> , 2014, 70, 909-916.	1.2	8
33	Estimation des incertitudes de mesure sur les débits et les charges polluantes en réseau d'assainissement : application au cas d'un bassin de retenue-décantation en réseau séparatif pluvial. <i>Houille Blanche</i> , 2001, 87, 99-108.	0.3	7
34	Uncertainties and Representativity of Measurements in Stormwater Storage Tanks. , 2002, , 1.		6
35	A Bayesian method for missing rainfall estimation using a conceptual rainfall-runoff model. <i>Hydrological Sciences Journal</i> , 2017, 62, 2456-2468.	1.2	6
36	Pharmaceuticals and detergents in hospital and urban wastewater: comparative monitoring, treatment, and assessment of impacts. <i>Environmental Science and Pollution Research</i> , 2018, 25, 9195-9196.	2.7	6

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37	Application of stormwater mass-volume curve prediction for water quality-based real-time control in sewer systems. Urban Water Journal, 2019, 16, 11-20.	1.0	6
38	Incertitudes sur un mesurande d'effluents comme une valeur intégrale d'un signal continu discrétisé en fonction du temps - Application aux mesures hydrologiques enregistrées in situ. Houille Blanche, 2009, 95, 82-91.	0.3	4
39	Modélisation numérique 3D des écoulements turbulents à surface libre chargés en polluants particuliers dans un bassin de retenue-décontamination des eaux pluviales. Houille Blanche, 2011, , 40-44.	0.3	4
40	SIPIBEL observatory: Data on usual pollutants (solids, organic matter, nutrients, ions) and micropollutants (pharmaceuticals, surfactants, metals), biological and ecotoxicity indicators in hospital and urban wastewater, in treated effluent and sludge from wastewater treatment plant, and in surface and groundwater. Data in Brief, 2022, 40, 107726.	0.5	4
41	Classifying pollutant flush signals in stormwater using functional data analysis on TSS MV curves. Water Research, 2022, 217, 118394.	5.3	4
42	Influence of sampling intake position on suspended solid measurements in sewers: two probability/time-series-based approaches. Environmental Monitoring and Assessment, 2016, 188, 347.	1.3	2
43	Modélisation numérique 3D de la décontamination et de la remise en suspension des polluants particuliers en régime transitoire dans un bassin de retenue-décontamination des eaux pluviales. Houille Blanche, 2013, , 54-61.	0.3	2
44	Mesure et modélisation de l'accumulation des sédiments dans un collecteur d'assainissement unitaire. Revue Européenne De Génie Civil, 2006, 10, 339-360.	0.0	2
45	Conceptual Stormwater Quality Models by Alternative Linear and Non-linear Formulations: an Event-Based Approach. Environmental Modeling and Assessment, 2022, 27, 817-830.	1.2	2
46	Evaluation of two statistical approaches for estimating pollutant loads at adjacent combined sewer overflow structures. Water Science and Technology, 2018, 78, 699-707.	1.2	1
47	From marginal to conditional probability functions of parameters in a conceptual rainfall-runoff model: an event-based approach. Hydrological Sciences Journal, 2019, 64, 1340-1350.	1.2	1
48	Une nouvelle structure d'écoulement en bifurcation à surface libre. Houille Blanche, 2015, , 78-83.	0.3	1
49	Utilisation des modèles de calcul des flux polluants en assainissement à résultats d'une enquête en France. Houille Blanche, 2007, 93, 94-98.	0.3	1
50	Vérification des mesures de débit en réseau d'assainissement par traçage à la Rhodamine WT. Houille Blanche, 2011, 97, 43-48.	0.3	1
51	Modélisation tridimensionnelle des écoulements multiphasiques en régime instationnaire au droit des ouvrages spatiaux présents en réseau d'assainissement : performances des modèles et analyse de sensibilité. Houille Blanche, 2013, 99, 16-24.	0.3	1
52	Optimisation de la décontamination des rejets urbains de temps de pluie dans les bassins de retenue contre les inondations. Houille Blanche, 1997, 83, 38-42.	0.3	0
53	Caractérisation et traçabilité des sous-produits solides de l'assainissement pluvial. Houille Blanche, 1997, 83, 43-47.	0.3	0
54	Mesure et modélisation de l'accumulation des sédiments dans un collecteur d'assainissement unitaire. Revue Européenne De Génie Civil, 2006, 10, 339-359.	0.0	0

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55	Validation et critique des résultats de mesure en hydrologie urbaine. Houille Blanche, 2009, 95, 60-67.	0.3	0
56	Modélisation des flux polluants en hydrologie urbaine : Évolutions depuis les années 1960 et perspectives pour les années 2000. Houille Blanche, 2002, 88, 103-109.	0.3	0
57	De l'utilisation pertinente des modèles de calcul des flux polluants en réseaux d'assainissement urbains. Houille Blanche, 2007, 93, 105-111.	0.3	0
58	Traitement de séries chronologiques de turbidité continues à court pas de temps pour l'estimation des masses de MES et de DCO rejetées en milieu urbain par temps de pluie. Houille Blanche, 2010, 96, 77-85.	0.3	0
59	II. Gestion des eaux pluviales urbaines. , 2017, , 191-209.		0
60	Urban Stormwater Management by Green Infrastructure: Design and Comparison of Three Scenarios. Lecture Notes in Civil Engineering, 2018, , 1084-1093.	0.3	0