Willy Bauwens

List of Publications by Year in descending order

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36 papers	1,387 citations	706676 14 h-index	425179 34 g-index
37 all docs	37 docs citations	37 times ranked	2146 citing authors

#	Article	IF	Citations
1	A fast and effective parameterization of water quality models. Environmental Modelling and Software, 2022, 149, 105331.	1.9	5
2	On the Calibration of Spatially Distributed Hydrologic Models for Poorly Gauged Basins: Exploiting Information from Streamflow Signatures and Remote Sensing-Based Evapotranspiration Data. Water (Switzerland), 2022, 14, 1252.	1.2	3
3	Using Remote Sensing Based Metrics to Quantify the Hydrological Response in a City. Water (Switzerland), 2019, 11, 1763.	1.2	1
4	The importance of city trees for reducing net rainfall: comparing measurements and simulations. Hydrology and Earth System Sciences, 2019, 23, 3865-3884.	1.9	10
5	Developing a modeling tool to allocate Low Impact Development practices in a cost-optimized method. Journal of Hydrology, 2019, 573, 98-108.	2.3	22
6	Impact of measurement error and limited data frequency on parameter estimation and uncertainty quantification. Environmental Modelling and Software, 2019, 118, 35-47.	1.9	15
7	WetSpa-Urban: An Adapted Version of WetSpa-Python, A Suitable Tool for Detailed Runoff Calculation in Urban Areas. Water (Switzerland), 2019, 11, 2460.	1.2	5
8	Evaluation and application of alternative rainfall data sources for forcing hydrologic models in the Mara Basin. Hydrology Research, 2018, 49, 1271-1282.	1.1	9
9	Explicit incipient motion of cohesive and nonâ€cohesive sediments using simple hydraulics. Depositional Record, 2018, 4, 78-89.	0.8	5
10	A heuristic probabilistic approach to estimating size-dependent mobility of nonuniform sediment. Stochastic Environmental Research and Risk Assessment, 2018, 32, 1771-1782.	1.9	2
11	Assessment of the Impact of Climate Change on Daily Extreme Peak and Low Flows of Zenne Basin in Belgium. Hydrology, 2018, 5, 38.	1.3	14
12	Trace Metal Modelling of a Complex River Basin Using the Suite of Models Integrated in the OpenMI Platform. Environments - MDPI, 2018, 5, 48.	1.5	8
13	Development of RWQM1-based integrated water quality model in OpenMI with application to the River Zenne, Belgium. Hydrological Sciences Journal, 2017, 62, 774-799.	1.2	12
14	Comparison of variance-based and moment-independent global sensitivity analysis approaches by application to the SWAT model. Environmental Modelling and Software, 2017, 91, 210-222.	1.9	105
15	High resolution modeling of the urban hydrological response. , 2017, , .		0
16	A discontinuous finite element suspended sediment transport model for water quality assessments in river networks. Hydrological Processes, 2017, 31, 1804-1816.	1.1	4
17	A new unconditionally stable and consistent quasiâ€analytical inâ€stream water quality solution scheme for <scp>C</scp>STRâ€based water quality simulators. Water Resources Research, 2017, 53, 4668-4690.	1.7	5
18	Effect of Single and Multisite Calibration Techniques on the Parameter Estimation, Performance, and Output of a SWAT Model of a Spatially Heterogeneous Catchment. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	39

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19	Evapotranspiration Mapping in a Heterogeneous Landscape Using Remote Sensing and Global Weather Datasets: Application to the Mara Basin, East Africa. Remote Sensing, 2017, 9, 390.	1.8	37
20	Location- and Time-Specific Hydrological Simulations with Multi-Resolution Remote Sensing Data in Urban Areas. Remote Sensing, 2017, 9, 645.	1.8	11
21	An improved SWAT vegetation growth module and its evaluation for four tropical ecosystems. Hydrology and Earth System Sciences, 2017, 21, 4449-4467.	1.9	65
22	Evaluating CFSR and WATCH Data as Input to SWAT for the Estimation of the Potential Evapotranspiration in a Data-Scarce Eastern-African Catchment. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	29
23	Assessment of the different sources of uncertainty in a SWAT model ofÂthe River Senne (Belgium). Environmental Modelling and Software, 2015, 68, 129-146.	1.9	69
24	Adsorption and desorption kinetics of 60 Co and 137 Cs in fresh water rivers. Journal of Environmental Radioactivity, 2015, 149, 81-89.	0.9	12
25	Assessing the impacts of wastewater treatment implementation on the water quality of a small urban river over the past 40Âyears. Environmental Science and Pollution Research, 2015, 22, 12720-12736.	2.7	38
26	Modelling Escherichia coli dynamics in the river Zenne (Belgium) using an OpenMI based integrated model. Journal of Hydroinformatics, 2014, 16, 354-374.	1.1	12
27	Integrated Water Quality Modelling of the River Zenne (Belgium) Using OpenMI. , 2014, , 259-274.		7
28	OpenMI-based integrated sediment transport modelling of the river Zenne, Belgium. Environmental Modelling and Software, 2013, 47, 193-206.	1.9	57
29	Multi-variable sensitivity and identifiability analysis for a complex environmental model in view of integrated water quantity and water quality modeling. Water Science and Technology, 2012, 65, 539-549.	1.2	48
30	Stochastic singleâ€site generation of daily and monthly rainfall in the Middle East. Meteorological Applications, 2012, 19, 111-117.	0.9	14
31	A stochastic spaceâ€time model for the generation of daily rainfall in the Gaza Strip. International Journal of Climatology, 2012, 32, 1098-1112.	1.5	15
32	Sobolâ€™ sensitivity analysis of a complex environmental model. Environmental Modelling and Software, 2011, 26, 1515-1525.	1.9	441
33	Climate change impact on SWAT simulated streamflow in western Kenya. International Journal of Climatology, 2009, 29, 1823-1834.	1.5	155
34	Quantifying uncertainty using robustness analysis in the application of ORESTE to sewer rehabilitation projects prioritizationâ€"Brussels case study. Journal of Multi-Criteria Decision Analysis, 2009, 16, 111-124.	1.0	7
35	Assessment of a Single-site Daily Rainfall Generator in the Middle East. , 2009, , .		3
36	Estimating the impacts of land-cover change on runoff using the soil and water assessment tool (SWAT): case study of Nzoia catchment, Kenya / Estimation des impacts du changement d'occupation du sol sur l'Ã©coulement Ã l'aide de SWAT: Ã©tude du cas du bassin de Nzoia, Kenya. Hydrological Sciences Journal, 2009, 54, 899-908.	1.2	101