

# Gabriele Freni

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

2,257  
citations

27  
h-index

42  
g-index

113  
ext. papers

2,643  
ext. citations

3.6  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
103	Comparison of different uncertainty techniques in urban stormwater quantity and quality modelling. <i>Water Research</i> , <b>2012</b> , 46, 2545-58	12.5	135
102	Uncertainty in urban stormwater quality modelling: the effect of acceptability threshold in the GLUE methodology. <i>Water Research</i> , <b>2008</b> , 42, 2061-72	12.5	97
101	Uncertainty in urban flood damage assessment due to urban drainage modelling and depth-damage curve estimation. <i>Water Science and Technology</i> , <b>2010</b> , 61, 2979-93	2.2	86
100	Validation of hydrological models: Conceptual basis, methodological approaches and a proposal for a code of practice. <i>Physics and Chemistry of the Earth</i> , <b>2012</b> , 42-44, 70-76	3	82
99	Evaluation of the apparent losses caused by water meter under-registration in intermittent water supply. <i>Water Science and Technology</i> , <b>2009</b> , 60, 2373-82	2.2	78
98	Assessing uncertainties in urban drainage models. <i>Physics and Chemistry of the Earth</i> , <b>2012</b> , 42-44, 3-10	3	74
97	Bayesian approach for uncertainty quantification in water quality modelling: The influence of prior distribution. <i>Journal of Hydrology</i> , <b>2010</b> , 392, 31-39	6	73
96	Urban runoff modelling uncertainty: Comparison among Bayesian and pseudo-Bayesian methods. <i>Environmental Modelling and Software</i> , <b>2009</b> , 24, 1100-1111	5.2	72
95	Integrated urban water modelling with uncertainty analysis. <i>Water Science and Technology</i> , <b>2006</b> , 54, 379-86	2.2	57
94	A model of the filling process of an intermittent distribution network. <i>Urban Water Journal</i> , <b>2010</b> , 7, 321-333	3.3	54
93	Urban Storm-Water Quality Management: Centralized versus Source Control. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2010</b> , 136, 268-278	2.8	50
92	Performance of membrane bioreactor (MBR) systems for the treatment of shipboard slops: Assessment of hydrocarbon biodegradation and biomass activity under salinity variation. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 300, 765-778	12.8	47
91	Uncertainty assessment of an integrated urban drainage model. <i>Journal of Hydrology</i> , <b>2009</b> , 373, 392-404	4	46
90	Optimisation of coagulation/flocculation for pre-treatment of high strength and saline wastewater: Performance analysis with different coagulant doses. <i>Chemical Engineering Journal</i> , <b>2014</b> , 254, 283-292	14.7	44
89	Energy Recovery in Water Distribution Networks. Implementation of Pumps as Turbine in a Dynamic Numerical Model. <i>Procedia Engineering</i> , <b>2014</b> , 70, 439-448		42
88	Identifiability analysis for receiving water body quality modelling. <i>Environmental Modelling and Software</i> , <b>2009</b> , 24, 54-62	5.2	42
87	Effectiveness of Rainwater Harvesting Systems for Flood Reduction in Residential Urban Areas. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 1389	3	39

86	Uncertainty in urban stormwater quality modelling: the influence of likelihood measure formulation in the GLUE methodology. <i>Science of the Total Environment</i> , <b>2009</b> , 408, 138-45	10.2	39
85	Analysis of the impact of intermittent distribution by modelling the network-filling process. <i>Journal of Hydroinformatics</i> , <b>2011</b> , 13, 358-373	2.6	39
84	Uncertainty in water quality modelling: The applicability of Variance Decomposition Approach. <i>Journal of Hydrology</i> , <b>2010</b> , 394, 324-333	6	39
83	Analysis of spatial and temporal rainfall trends in Sicily during the 1921-2012 period. <i>Theoretical and Applied Climatology</i> , <b>2016</b> , 126, 113-129	3	37
82	A Reliability Analysis of a Rainfall Harvesting System in Southern Italy. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 18	3	37
81	Assessment of the integrated urban water quality model complexity through identifiability analysis. <i>Water Research</i> , <b>2011</b> , 45, 37-50	12.5	33
80	Assessment of data availability influence on integrated urban drainage modelling uncertainty. <i>Environmental Modelling and Software</i> , <b>2009</b> , 24, 1171-1181	5.2	33
79	Uncertainty analysis of the influence of rainfall time resolution in the modelling of urban drainage systems. <i>Hydrological Processes</i> , <b>2005</b> , 19, 1055-1071	3.3	30
78	Impact of rainfall data resolution in time and space on the urban flooding evaluation. <i>Water Science and Technology</i> , <b>2013</b> , 68, 1984-93	2.2	28
77	Uncertainty Analysis in the Evaluation of Extreme Rainfall Trends and Its Implications on Urban Drainage System Design. <i>Water (Switzerland)</i> , <b>2015</b> , 7, 6931-6945	3	27
76	Comparison between Different Distributed Methods for Flood Susceptibility Mapping. <i>Water Resources Management</i> , <b>2019</b> , 33, 3155-3173	3.7	24
75	Stormwater infiltration trenches: a conceptual modelling approach. <i>Water Science and Technology</i> , <b>2009</b> , 60, 185-99	2.2	24
74	Multi-stage Linear Programming Optimization for Pump Scheduling. <i>Procedia Engineering</i> , <b>2014</b> , 70, 1378-1385	2.3	23
73	Implementation of pressure reduction valves in a dynamic water distribution numerical model to control the inequality in water supply. <i>Journal of Hydroinformatics</i> , <b>2014</b> , 16, 207-217	2.6	23
72	Experimental Evidence of Leaks in Elastic Pipes. <i>Water Resources Management</i> , <b>2016</b> , 30, 2005-2019	3.7	22
71	Contaminant Intrusion through Leaks in Water Distribution System: Experimental Analysis. <i>Procedia Engineering</i> , <b>2015</b> , 119, 426-433		22
70	Pumps as turbines (PATs) in water distribution networks affected by intermittent service. <i>Journal of Hydroinformatics</i> , <b>2014</b> , 16, 259-271	2.6	22
69	Uncertainty evaluation of design rainfall for urban flood risk analysis. <i>Water Science and Technology</i> , <b>2011</b> , 63, 2641-50	2.2	22

68	The Effect of Damage Functions on Urban Flood Damage Appraisal. <i>Procedia Engineering</i> , <b>2014</b> , 70, 1251-1260	21
67	Strategies for Improving Optimal Positioning of Quality Sensors in Urban Drainage Systems for Non-Conservative Contaminants. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 934	3 20
66	Reliability Analysis of Rainwater Harvesting Systems in Southern Italy. <i>Procedia Engineering</i> , <b>2016</b> , 162, 373-380	20
65	Analysis of Extreme Rainfall Trends in Sicily for the Evaluation of Depth-Duration-Frequency Curves in Climate Change Scenarios. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20, 04015036	1.8 19
64	Modelling of E. coli distribution in coastal areas subjected to combined sewer overflows. <i>Water Science and Technology</i> , <b>2013</b> , 68, 1123-36	2.2 19
63	Uncertainty assessment of sewer sediment erosion modelling. <i>Urban Water Journal</i> , <b>2008</b> , 5, 21-31	2.3 19
62	Pump as turbine implementation in a dynamic numerical model: cost analysis for energy recovery in water distribution network. <i>Journal of Hydroinformatics</i> , <b>2015</b> , 17, 347-360	2.6 18
61	Three-dimensional numerical simulations on wind- and tide-induced currents: The case of Augusta Harbour (Italy). <i>Computers and Geosciences</i> , <b>2014</b> , 72, 65-75	4.5 17
60	Ability of Preissmann slot scheme to simulate smooth pressurisation transient in sewers. <i>Water Science and Technology</i> , <b>2010</b> , 62, 1848-58	2.2 17
59	A composite indicator for water meter replacement in an urban distribution network. <i>Urban Water Journal</i> , <b>2012</b> , 9, 419-428	2.3 17
58	The apparent losses due to metering errors: a proactive approach to predict losses and schedule maintenance. <i>Urban Water Journal</i> , <b>2015</b> , 12, 229-239	2.3 16
57	LCA Methodology for the Quantification of the Carbon Footprint of the Integrated Urban Water System. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 395	3 16
56	Uncertainty estimation of a complex water quality model: The influence of Box-Cox transformation on Bayesian approaches and comparison with a non-Bayesian method. <i>Physics and Chemistry of the Earth</i> , <b>2012</b> , 42-44, 31-41	3 16
55	Comparison between a detailed and a simplified integrated model for the assessment of urban drainage environmental impact on an ephemeral river. <i>Urban Water Journal</i> , <b>2008</b> , 5, 87-96	2.3 16
54	Optimal water quality sensor positioning in urban drainage systems for illicit intrusion identification. <i>Journal of Hydroinformatics</i> , <b>2020</b> , 22, 46-60	2.6 16
53	Quantification of diffuse and concentrated pollutant loads at the watershed-scale: an Italian case study. <i>Water Science and Technology</i> , <b>2009</b> , 59, 2125-35	2.2 15
52	The history of rainfall data time-resolution in a wide variety of geographical areas. <i>Journal of Hydrology</i> , <b>2020</b> , 590, 125258	6 14
51	Urban water quality modelling: a parsimonious holistic approach for a complex real case study. <i>Water Science and Technology</i> , <b>2010</b> , 61, 521-36	2.2 14

50	Modelling of a Debris Flow Event in the Enna Area for Hazard Assessment. <i>Procedia Engineering</i> , <b>2017</b> , 175, 287-292		13
49	Long-term temperature changes in Sicily, Southern Italy. <i>Atmospheric Research</i> , <b>2017</b> , 198, 44-55	5.4	13
48	Estimation of sub-hourly DDF curves using scaling properties of hourly and sub-hourly data at partially gauged site. <i>Atmospheric Research</i> , <b>2005</b> , 77, 114-123	5.4	13
47	Receiving water body quality assessment: an integrated mathematical approach applied to an Italian case study. <i>Journal of Hydroinformatics</i> , <b>2012</b> , 14, 30-47	2.6	12
46	Emission standards versus immission standards for assessing the impact of urban drainage on ephemeral receiving water bodies. <i>Water Science and Technology</i> , <b>2010</b> , 61, 1617-29	2.2	11
45	A Systematic Review of the Hydrological, Environmental and Durability Performance of Permeable Pavement Systems. <i>Sustainability</i> , <b>2021</b> , 13, 4509	3.6	11
44	Start-up of two moving bed membrane bioreactors treating saline wastewater contaminated by hydrocarbons. <i>Water Science and Technology</i> , <b>2016</b> , 73, 716-24	2.2	11
43	Identification of Potential Locations for Run-of-River Hydropower Plants Using a GIS-Based Procedure. <i>Energies</i> , <b>2019</b> , 12, 3446	3.1	10
42	Characterization and Treatment Proposals of Shipboard Slop Wastewater Contaminated by Hydrocarbons. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 581	3	10
41	A mathematical model to evaluate apparent losses due to meter under-registration in intermittent water distribution networks. <i>Water Science and Technology: Water Supply</i> , <b>2013</b> , 13, 914-923	1.4	10
40	Impact of diffusion and dispersion of contaminants in water distribution networks modelling and monitoring. <i>Water Science and Technology: Water Supply</i> , <b>2020</b> , 20, 46-58	1.4	9
39	Performance of a moving bed-membrane bioreactor treating saline wastewater contaminated by hydrocarbons from washing of oil tankers. <i>Desalination and Water Treatment</i> , <b>2016</b> , 57, 22943-22952		9
38	Collection of Thermal Energy Available from a Biogas Plant for Leachate Treatment in an Urban Landfill: A Sicilian Case Study. <i>Energies</i> , <b>2012</b> , 5, 3753-3767	3.1	9
37	Mitigation of urban flooding: A simplified approach for distributed stormwater management practices selection and planning. <i>Urban Water Journal</i> , <b>2005</b> , 2, 215-226	2.3	9
36	Pressure-Discharge Law of Local Tanks Connected to a Water Distribution Network: Experimental and Mathematical Results. <i>Water (Switzerland)</i> , <b>2015</b> , 7, 4701-4723	3	8
35	An Environmental Analysis of the Effect of Energy Saving, Production and Recovery Measures on Water Supply Systems under Scarcity Conditions. <i>Energies</i> , <b>2015</b> , 8, 5937-5951	3.1	8
34	The identifiability analysis for setting up measuring campaigns in integrated water quality modelling. <i>Physics and Chemistry of the Earth</i> , <b>2012</b> , 42-44, 52-60	3	8
33	Role of Modeling Uncertainty in the Estimation of Climate and Socioeconomic Impact on River Water Quality. <i>Journal of Water Resources Planning and Management - ASCE</i> , <b>2012</b> , 138, 479-490	2.8	8

32	Evaluation of the optimal size of a rainwater harvesting system in Sicily. <i>Journal of Hydroinformatics</i> , <b>2017</b> , 19, 853-864	2.6	7
31	Experimental Investigation for Local Tank Inflow Model. <i>Procedia Engineering</i> , <b>2014</b> , 89, 656-663		7
30	Evaluation of the Water Scarcity Energy Cost for Users. <i>Energies</i> , <b>2013</b> , 6, 220-234	3.1	7
29	Assessment of data and parameter uncertainties in integrated water-quality model. <i>Water Science and Technology</i> , <b>2011</b> , 63, 1913-21	2.2	7
28	Bayesian inference analysis of the uncertainty linked to the evaluation of potential flood damage in urban areas. <i>Water Science and Technology</i> , <b>2012</b> , 66, 1669-77	2.2	7
27	Stochastic Approach for Optimal Positioning of Pumps As Turbines (PATs). <i>Sustainability</i> , <b>2021</b> , 13, 12318.6	3.6	7
26	Urban drainage and sustainable cities: how to achieve flood resilient societies? <b>2012</b> ,		7
25	Multivariate Statistical Analysis for Water Demand Modeling. <i>Procedia Engineering</i> , <b>2014</b> , 89, 901-908		6
24	The influence of rainfall time resolution for urban water quality modelling. <i>Water Science and Technology</i> , <b>2010</b> , 61, 2381-90	2.2	6
23	Analysis of intermittent supply systems in water scarcity conditions and evaluation of the resource distribution equity indices. <i>WIT Transactions on Ecology and the Environment</i> , <b>2007</b> ,	1	6
22	Energy saving and recovery measures in integrated urban water systems <b>2017</b> ,		5
21	Floodability: A New Paradigm for Designing Urban Drainage and Achieving Sustainable Urban Growth. <i>Water Resources Management</i> , <b>2020</b> , 34, 3411-3424	3.7	5
20	Flood frequency analysis for an urban watershed: comparison between several statistical methodologies simulating synthetic rainfall events. <i>Journal of Flood Risk Management</i> , <b>2018</b> , 11, S559-S574	3.1	4
19	Uncertainty related to climate change in the assessment of the DDF curve parameters. <i>Environmental Modelling and Software</i> , <b>2017</b> , 96, 1-13	5.2	4
18	Assessment of Modelling Structure and Data Availability Influence on Urban Flood Damage Modelling Uncertainty. <i>Procedia Engineering</i> , <b>2014</b> , 89, 788-795		4
17	Water and Energy Saving in Urban Water Systems: The ALADIN Project. <i>Procedia Engineering</i> , <b>2016</b> , 162, 396-402		4
16	Multivariate statistical analysis for water demand modelling: implementation, performance analysis, and comparison with the PRP model. <i>Journal of Hydroinformatics</i> , <b>2016</b> , 18, 4-22	2.6	4
15	Experimental analysis of pressure-discharge relationship in a private water supply tank. <i>Journal of Hydroinformatics</i> , <b>2018</b> , 20, 608-621	2.6	3

14	Experimental Evidence of the Discharge Law in Private Tanks Connected to Water Distribution Networks. <i>Procedia Engineering</i> , <b>2016</b> , 154, 115-122		3
13	Definition of Water Meter Substitution Plans based on a Composite Indicator. <i>Procedia Engineering</i> , <b>2014</b> , 70, 1369-1377		3
12	Multi Sources Water Supply System Optimal Control: A Case Study. <i>Procedia Engineering</i> , <b>2014</b> , 89, 247-254		3
11	Identification of the best flood retrofitting scenario in an urban watershed by means of a Bayesian Decision Network <b>2014</b> ,		3
10	WASTEWATER NETWORK CHALLENGES AND SOLUTIONS <b>2006</b> , 147-158		3
9	Quantifying the Uncertainty Related to Climate Change in the Assessment of Urban Flooding: A Case Study. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 2072	3	2
8	Parameterization of a Bayesian Normalized Difference Water Index for Surface Water Detection. <i>Geosciences (Switzerland)</i> , <b>2020</b> , 10, 260	2.7	2
7	Multicriteria performance analysis of an integrated urban wastewater system for energy management. <i>Journal of Hydroinformatics</i> , <b>2017</b> , 19, 865-878	2.6	1
6	Concept of a New Pluviometer for Metering Rainfall Erosivity. <i>Advanced Materials Research</i> , <b>2012</b> , 452-453, 316-320	0.5	1
5	A BMA Analysis to Assess the Urbanization and Climate Change Impact on Urban Watershed Runoff. <i>Procedia Engineering</i> , <b>2016</b> , 154, 868-876		1
4	Long Term Efficiency Analysis of Infiltration Trenches Subjected to Clogging. <i>Green Energy and Technology</i> , <b>2019</b> , 181-187	0.6	0
3	Rainwater Reuse in Urban Areas: A Mathematical Model and a Long-Term Modelling Approach. <i>Green Energy and Technology</i> , <b>2019</b> , 175-180	0.6	
2	Closure to Analysis of Extreme Rainfall Trends in Sicily for the Evaluation of Depth-Duration-Frequency Curves in Climate Change Scenarios by Lorena Liuzzo and Gabriele Freni. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2016</b> , 21, 07016006	1.8	
1	Uncertainty Analysis in the Evaluation of the DDF Curves Parameters in Climate Change Scenarios. <i>Procedia Engineering</i> , <b>2016</b> , 154, 670-678		