

Marco Franchini

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.

98
papers

2,901
citations

30
h-index

50
g-index

105
ext. papers

3,246
ext. citations

3
avg, IF

5.47
L-index

#	Paper	IF	Citations
98	Comparative analysis of several conceptual rainfall-runoff models. <i>Journal of Hydrology</i> , 1991 , 122, 161-219	2.6	245
97	Physical interpretation and sensitivity analysis of the TOPMODEL. <i>Journal of Hydrology</i> , 1996 , 175, 293-338	2.6	136
96	A short-term, pattern-based model for water-demand forecasting. <i>Journal of Hydroinformatics</i> , 2007 , 9, 39-50	2.6	121
95	Use of a genetic algorithm combined with a local search method for the automatic calibration of conceptual rainfall-runoff models. <i>Hydrological Sciences Journal</i> , 1996 , 41, 21-39	3.5	105
94	Path-based methods for the determination of nondispersive drainage directions in grid-based digital elevation models. <i>Water Resources Research</i> , 2003 , 39,	5.4	104
93	Water level forecasting through fuzzy logic and artificial neural network approaches. <i>Hydrology and Earth System Sciences</i> , 2006 , 10, 1-17	5.5	104
92	Battle of the Water Calibration Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012 , 138, 523-532	2.8	95
91	Fuzzy neural networks for water level and discharge forecasting with uncertainty. <i>Environmental Modelling and Software</i> , 2011 , 26, 523-537	5.2	84
90	A Stochastic Model for Representing Drinking Water Demand at Residential Level. <i>Water Resources Management</i> , 2003 , 17, 197-222	3.7	70
89	Global optimization techniques for the calibration of conceptual rainfall-runoff models. <i>Hydrological Sciences Journal</i> , 1998 , 43, 443-458	3.5	68
88	Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 04014009	2.8	67
87	A heuristic procedure for the automatic creation of district metered areas in water distribution systems. <i>Urban Water Journal</i> , 2014 , 11, 137-159	2.3	64
86	Optimal Placement of Isolation Valves in Water Distribution Systems Based on Valve Cost and Weighted Average Demand Shortfall. <i>Water Resources Management</i> , 2010 , 24, 4317-4338	3.7	62
85	Comparing Low and High-Level Hybrid Algorithms on the Two-Objective Optimal Design of Water Distribution Systems. <i>Water Resources Management</i> , 2015 , 29, 1-16	3.7	59
84	Conceptual design of a generic, real-time, near-optimal control system for water-distribution networks. <i>Journal of Hydroinformatics</i> , 2007 , 9, 3-14	2.6	57
83	Comparing several genetic algorithm schemes for the calibration of conceptual rainfall-runoff models. <i>Hydrological Sciences Journal</i> , 1997 , 42, 357-379	3.5	56
82	An analysis of the dynamic component of the geomorphologic instantaneous unit hydrograph. <i>Journal of Hydrology</i> , 1996 , 175, 407-428	6	53

81	Estimating the index flood using indirect methods. <i>Hydrological Sciences Journal</i> , 2001 , 46, 399-418	3.5	52
80	A new algorithm for real-time pressure control in water distribution networks. <i>Water Science and Technology: Water Supply</i> , 2013 , 13, 875-882	1.4	50
79	Segment identification in water distribution systems. <i>Urban Water Journal</i> , 2011 , 8, 203-217	2.3	47
78	Fast network multi-objective design algorithm combined with an a posteriori procedure for reliability evaluation under various operational scenarios. <i>Urban Water Journal</i> , 2012 , 9, 385-399	2.3	46
77	Multiobjective Optimization of Rehabilitation and Leakage Detection Scheduling in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009 , 135, 426-439	2.8	46
76	Near-optimal rehabilitation scheduling of water distribution systems based on a multi-objective genetic algorithm. <i>Civil Engineering and Environmental Systems</i> , 2006 , 23, 143-160	2.1	45
75	A flood routing Muskingum type simulation and forecasting model based on level data alone. <i>Water Resources Research</i> , 1994 , 30, 2183-2196	5.4	44
74	Generalized Resilience and Failure Indices for Use with Pressure-Driven Modeling and Leakage. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04016019	2.8	44
73	The combined use of resilience and loop diameter uniformity as a good indirect measure of network reliability. <i>Urban Water Journal</i> , 2016 , 13, 167-181	2.3	40
72	Regional analysis of flow duration curves for a limestone region. <i>Water Resources Management</i> , 1996 , 10, 199-218	3.7	37
71	Accounting for Phasing of Construction within the Design of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 598-606	2.8	34
70	Comparison between Entropy and Resilience as Indirect Measures of Reliability in the Framework of Water Distribution Network Design. <i>Procedia Engineering</i> , 2014 , 70, 379-388		31
69	A multi-objective approach for detecting and responding to accidental and intentional contamination events in water distribution systems. <i>Urban Water Journal</i> , 2009 , 6, 115-135	2.3	31
68	Generation of synthetic water demand time series at different temporal and spatial aggregation levels. <i>Urban Water Journal</i> , 2014 , 11, 297-310	2.3	29
67	Unsteady Flow Modeling of Pressure Real-Time Control in Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017 , 143, 04017056	2.8	29
66	Grey neural networks for river stage forecasting with uncertainty. <i>Physics and Chemistry of the Earth</i> , 2012 , 42-44, 108-118	3	29
65	A Probabilistic Short-Term Water Demand Forecasting Model Based on the Markov Chain. <i>Water (Switzerland)</i> , 2017 , 9, 507	3	27
64	Using EPANET for modelling water distribution systems with users along the pipes. <i>Civil Engineering and Environmental Systems</i> , 2014 , 31, 36-50	2.1	26

63	Comparative analysis of two probabilistic pipe breakage models applied to a real water distribution system. <i>Civil Engineering and Environmental Systems</i> , 2010 , 27, 1-22	2.1	26
62	Estimation of Urban Impervious Fraction from Satellite Images and Its Impact on Peak Discharge Entering a Storm Sewer System. <i>Water Resources Management</i> , 2009 , 23, 1893-1915	3.7	26
61	Wireless Middleware Solutions for Smart Water Metering. <i>Sensors</i> , 2019 , 19,	3.8	25
60	Evaluating Water Demand Shortfalls in Segment Analysis. <i>Water Resources Management</i> , 2012 , 26, 2301-2321	3.7	25
59	Comparison of Newton-Raphson Global and Loop Algorithms for Water Distribution Network Resolution. <i>Journal of Hydraulic Engineering</i> , 2014 , 140, 313-321	1.8	24
58	Comparing calibrated parameter sets of the SWAT model for the Scandinavian and Iberian peninsulas. <i>Hydrological Sciences Journal</i> , 2015 , 1-19	3.5	23
57	Three Methods for Estimating the Entropy Parameter M Based on a Decreasing Number of Velocity Measurements in a River Cross-Section. <i>Entropy</i> , 2014 , 16, 2512-2529	2.8	23
56	Assessment of predictive uncertainty within the framework of water demand forecasting using the Model Conditional Processor (MCP). <i>Urban Water Journal</i> , 2017 , 14, 1-10	2.3	22
55	Pipe roughness calibration in water distribution systems using grey numbers. <i>Journal of Hydroinformatics</i> , 2010 , 12, 424-445	2.6	22
54	Taking Account of Uncertainty in Demand Growth When Phasing the Construction of a Water Distribution Network. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04014049	2.8	21
53	Case Study: Improving Real-Time Stage Forecasting Muskingum Model by Incorporating the Rating Curve Model. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011 , 16, 540-557	1.8	21
52	Analytical derivation of the flood frequency curve through partial duration series analysis and a probabilistic representation of the runoff coefficient. <i>Journal of Hydrology</i> , 2005 , 303, 1-15	6	21
51	A simple approach for stochastic generation of spatial rainfall patterns. <i>Journal of Hydrology</i> , 2012 , 472-473, 63-76	6	20
50	A Short-Term Water Demand Forecasting Model Using a Moving Window on Previously Observed Data. <i>Water (Switzerland)</i> , 2017 , 9, 172	3	19
49	Green Smart Technology for Water (GST4Water): Water Loss Identification at User Level by Using Smart Metering Systems. <i>Water (Switzerland)</i> , 2019 , 11, 405	3	18
48	Forecasting discharges at the downstream end of a river reach through two simple Muskingum based procedures. <i>Journal of Hydrology</i> , 2011 , 399, 335-352	6	18
47	A Procedure for the Design of District Metered Areas in Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 70, 41-50		16
46	Multistep Approach for Optimizing Design and Operation of the C-Town Pipe Network Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142,	2.8	14

45	Optimal placement of valves in a water distribution network with CLP(FD). <i>Theory and Practice of Logic Programming</i> , 2011 , 11, 731-747	0.8	14
44	Near-optimal scheduling of device activation in water distribution systems to reduce the impact of a contamination event. <i>Journal of Hydroinformatics</i> , 2012 , 14, 345-365	2.6	14
43	A Rapid Model for Delimiting Flooded Areas. <i>Water Resources Management</i> , 2013 , 27, 3825-3846	3.7	13
42	Enhancement and comprehensive evaluation of the Rating Curve Model for different river sites. <i>Journal of Hydrology</i> , 2012 , 464-465, 376-387	6	13
41	Estimation of bathymetry (and discharge) in natural river cross-sections by using an entropy approach. <i>Journal of Hydrology</i> , 2015 , 527, 20-29	6	12
40	Leakages in pipes: generalizing Torricelli's equation to deal with different elastic materials, diameters and orifice shape and dimensions. <i>Urban Water Journal</i> , 2014 , 11, 678-695	2.3	12
39	Fuzzy unit hydrograph. <i>Water Resources Research</i> , 2006 , 42,	5.4	11
38	A Multi-step Approach for Optimal Design and Management of the C-Town Pipe Network Model. <i>Procedia Engineering</i> , 2014 , 89, 37-44		10
37	A Procedure for Evaluating the Compatibility of Surface Water Resources with Environmental and Human Requirements. <i>Water Resources Management</i> , 2011 , 25, 3613-3634	3.7	10
36	The Identification of Loops in Water Distribution Networks. <i>Procedia Engineering</i> , 2015 , 119, 506-515		9
35	Water distribution systems: Using linearized hydraulic equations within the framework of ranking-based optimization algorithms to improve their computational efficiency. <i>Environmental Modelling and Software</i> , 2014 , 57, 33-39	5.2	9
34	A conceptual grey rainfall-runoff model for simulation with uncertainty. <i>Journal of Hydroinformatics</i> , 2013 , 15, 1-20	2.6	9
33	Crisp discharge forecasts and grey uncertainty bands using data-driven models 2012 , 43, 589-602		9
32	From Water Consumption Smart Metering to Leakage Characterization at District and User Level: The GST4Water Project. <i>Proceedings (mdpi)</i> , 2018 , 2, 675	0.3	9
31	Model for hydraulic networks with evenly distributed demands along pipes. <i>Civil Engineering and Environmental Systems</i> , 2010 , 27, 133-153	2.1	8
30	A robust approach based on time variable trigger levels for pump control. <i>Journal of Hydroinformatics</i> , 2017 , 19, 811-822	2.6	7
29	Low Level Hybrid Procedure for the Multi-objective Design of Water Distribution Networks. <i>Procedia Engineering</i> , 2014 , 70, 369-378		7
28	A dimensionless procedure for the design of infiltration trenches. <i>Journal - American Water Works Association</i> , 2012 , 104, E501-E509	0.5	7

27	Analysis of MNF and FAVAD Model for Leakage Characterization by Exploiting Smart-Metered Data: The Case of the Gorino Ferrarese (FE-Italy) District. <i>Water (Switzerland)</i> , 2021 , 13, 643	3	7
26	Assessment of the Predictive Uncertainty within the Framework of Water Demand Forecasting by Using the Model Conditional Processor. <i>Procedia Engineering</i> , 2014 , 89, 893-900		6
25	A Methodology for Pumping Control Based on Time Variable Trigger Levels. <i>Procedia Engineering</i> , 2016 , 162, 365-372		6
24	Methods for Preserving Duration-Intensity Correlation on Synthetically Generated Water-Demand Pulses. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 06015002	2.8	5
23	Confidence interval of real-time forecast stages provided by the STAFOM-RCM model: the case study of the Tiber River (Italy). <i>Hydrological Processes</i> , 2014 , 28, 729-743	3.3	5
22	Preserving Duration-intensity Correlation on Synthetically Generated Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1463-1472		5
21	A grey-based method for evaluating the effects of rating curve uncertainty on frequency analysis of annual maxima. <i>Journal of Hydroinformatics</i> , 2013 , 15, 194-210	2.6	5
20	Scheduling countermeasures to contamination events by genetic algorithms. <i>AI Communications</i> , 2015 , 28, 259-282	0.8	4
19	Battle of Postdisaster Response and Restoration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020067	2.8	4
18	Extending the Global-Gradient Algorithm to Solve Pressure-Control Valves. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020055	2.8	4
17	Comparing grey formulations of the velocity-area method and entropy method for discharge estimation with uncertainty. <i>Journal of Hydroinformatics</i> , 2014 , 16, 797-811	2.6	4
16	Bottom-Up Generation of Peak Demand Scenarios in Water Distribution Networks. <i>Sustainability</i> , 2021 , 13, 31	3.6	4
15	Stochastic Approach for the Analysis of Demand Induced Transients in Real Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022 , 148,	2.8	4
14	Genetic Algorithms for Scheduling Devices Operation in a Water Distribution System in Response to Contamination Events. <i>Lecture Notes in Computer Science</i> , 2012 , 124-135	0.9	4
13	A Procedure for Spatial Aggregation of Synthetic Water Demand Time Series. <i>Procedia Engineering</i> , 2014 , 70, 51-60		3
12	A Linearization Approach for Improving the Computational Efficiency of Water Distribution System Ranking-based Optimization Algorithms. <i>Procedia Engineering</i> , 2015 , 119, 516-525		3
11	A Fast New Method for Segment Identification in Water Distribution Systems 2011 ,		3
10	Combined analytical solution of overland flow and sediment transport. <i>Water Resources Management</i> , 1994 , 8, 225-238	3.7	3

9	Effects of the COVID-19 Lockdown on Water Consumptions: Northern Italy Case Study. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 05021021	2.8	3
8	Five variants of a procedure for spatial aggregation of synthetic water demand time series 2015 , 64, 629-639		2
7	Generation of synthetic cross-correlated water demand time series. <i>Water Science and Technology: Water Supply</i> , 2013 , 13, 977-986	1.4	2
6	Minimum Night Flow Analysis and Application of the Fixed and Variable Area Discharges Model for Characterizing Leakage in the Gorino Ferrarese (FE-Italy) District. <i>Environmental Sciences Proceedings</i> , 2020 , 2, 8	1	2
5	Experimental analysis of the water consumption effect on the dynamic behaviour of a real pipe network. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 477-487	1.9	2
4	Laboratory Analysis of a Piston-Actuated Pressure-Reducing Valve under Low Flow Conditions. <i>Water (Switzerland)</i> , 2020 , 12, 940	3	1
3	Automated Household Water End-Use Disaggregation through Rule-Based Methodology. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 04021024	2.8	1
2	Laboratory Analysis of a Piston-Actuated Pressure Reducing Valve under Low Flow Conditions. <i>Proceedings (mdpi)</i> , 2020 , 48, 26	0.3	
1	Discussion of Effective Approach for Solving Battle of Water Calibration Network Problem by Zheng Yi Wu and Thomas M. Walski. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 128-131	2.8	