Maurizio Giugni

List of Publications by Year
in descending order

48	1,706	304602	289141
papers	citations	22 h-index	40 g-index

48	48	48	1906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Polymer functionalized nanocomposites for metals removal from water and wastewater: An overview. Water Research, 2016, 92, 22-37.	5.3	289
2	Losses Reduction and Energy Production in Water-Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 237-244.	1.3	145
3	Photocatalytic degradation of the antibiotic chloramphenicol and effluent toxicity effects. Ecotoxicology and Environmental Safety, 2016, 123, 65-71.	2.9	112
4	Experimental characterization of two Pumps As Turbines for hydropower generation. Renewable Energy, 2016, 99, 180-187.	4.3	108
5	Optimal Location of PRVs and Turbines in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	71
6	Intensity-Duration-Frequency (IDF) rainfall curves, for data series and climate projection in African cities. SpringerPlus, 2014, 3, 133.	1.2	70
7	Probabilistic GIS-based method for delineation of urban flooding risk hotspots. Natural Hazards, 2014, 73, 975.	1.6	64
8	Turbulence at water-vegetation interface in open channel flow: Experiments with natural-like plants. Advances in Water Resources, 2019, 127, 180-191.	1.7	60
9	DEM-Based Approaches for the Delineation of Flood-Prone Areas in an Ungauged Basin in Africa. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	53
10	Transient Flow Caused by Air Expulsion through an Orifice. Journal of Hydraulic Engineering, 2008, 134, 1395-1399.	0.7	48
11	Decision support system for the optimal design of district metered areas. Journal of Hydroinformatics, 2016, 18, 49-61.	1.1	45
12	GEV Parameter Estimation and Stationary vs. Non-Stationary Analysis of Extreme Rainfall in African Test Cities. Hydrology, 2018, 5, 28.	1.3	43
13	Real Time Control of a Prototype for Pressure Regulation and Energy Production in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	40
14	Comparison of Flexible and Rigid Vegetation Induced Shear Layers in Partly Vegetated Channels. Water Resources Research, 2021, 57, e2020WR028243.	1.7	39
15	Hydraulic Transients Caused by Air Expulsion During Rapid Filling of Undulating Pipelines. Water (Switzerland), 2016, 8, 25.	1.2	37
16	Inactivation of Escherichia coli and Enterococci in urban wastewater by sunlight/PAA and sunlight/H 2 O 2 processes. Chemical Engineering Research and Design, 2016, 104, 178-184.	2.7	37
17	From flood risk mapping toward reducing vulnerability: the case of Addis Ababa. Natural Hazards, 2020, 100, 387-415.	1.6	35
18	Automatic Multi-objective Sectorization of a Water Distribution Network. Procedia Engineering, 2014, 89, 1200-1207.	1.2	34

#	Article	IF	Citations
19	Real-Time Control of a PRV in Water Distribution Networks for Pressure Regulation: Theoretical Framework and Laboratory Experiments. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 04017075.	1.3	33
20	Effects of vegetation density on shear layer in partly vegetated channels. Journal of Hydro-Environment Research, 2020, 30, 82-90.	1.0	32
21	A jazz-based approach for optimal setting of pressure reducing valves in water distribution networks. Engineering Optimization, 2016, 48, 727-739.	1.5	27
22	Performance of vertical-axis pumps as turbines. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 482-493.	0.7	26
23	Location and Setting of Valves in Water Distribution Networks Using a Harmony Search Approach. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	1.3	25
24	Optimal Design of District Metered Areas in Water Distribution Networks. Procedia Engineering, 2014, 70, 449-457.	1.2	21
25	An Application of the Harmony-Search Multi-Objective (HSMO) Optimization Algorithm for the Solution of Pump Scheduling Problem. Procedia Engineering, 2016, 162, 494-502.	1.2	20
26	Vegetated Channel Flows: Turbulence Anisotropy at Flowâ€“Rigid Canopy Interface. Geosciences (Switzerland), 2018, 8, 259.	1.0	20
27	Pressure Management Through Optimal Location and Setting of Valves in Water Distribution Networks Using a Music-Inspired Approach. Water Resources Management, 2017, 31, 1517-1533.	1.9	19
28	Assessing the Impact of Climate Change on Future Water Demand using Weather Data. Water Resources Management, 2021, 35, 1449-1462.	1.9	18
29	Inertial Effects on Finite Length Pipe Seismic Response. Mathematical Problems in Engineering, 2012, 2012, 1-14.	0.6	13
30	Nature-Based Solutions (NBSs) Application for Hydro-Environment Enhancement. A Case Study of the Isar River (DE). Environmental Sciences Proceedings, 2020, 2, .	0.3	13
31	Sustainable Development of Storm-water Systems in African Cities Considering Climate Change. Procedia Engineering, 2015, 119, 1181-1191.	1.2	12
32	A harmony-based calibration tool for urban drainage systems. Water Management, 2018, 171, 30-41.	0.4	11
33	Identification of Influential User Locations for Smart Meter Installation to Reconstruct the Urban Demand Pattern. Journal of Water Resources Planning and Management - ASCE, 2020, 146, 04020070.	1.3	11
34	Experimental Investigation on a Buried Leaking Pipe. Procedia Engineering, 2014, 89, 298-303.	1.2	10
35	Pressure surges caused by air release in water pipelines. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 461-472.	0.7	10
36	Use of Hydraulically Operated PRVs for Pressure Regulation and Power Generation in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2020, 146, 04020047.	1.3	10

#	Article	IF	Citations
37	An Operative Framework for the Optimal Selection of Centrifugal Pumps As Turbines (PATs) in Water Distribution Networks (WDNs). Water (Switzerland), 2022, 14, 1785.	1.2	10
38	Drainage Systems Optimization Under Climate Change Scenarios. Water Resources Management, 2023, 37, 2465-2482.	1.9	9
39	Acoustic Doppler velocimetry (ADV) data on flow-vegetation interaction with natural-like and rigid model plants in hydraulic flumes. Data in Brief, 2020, 32, 106080.	0.5	8
40	Shortest path criterion for sampling design of water distribution networks. Urban Water Journal, 2015, 12, 154-164.	1.0	4
41	Pressure surges during filling of partially empty undulating pipelines. ISH Journal of Hydraulic Engineering, 2021, 27, 244-252.	1.1	4
42	Model-Based Water Quality Assurance in Ground and Surface Provisioning Systems. , 2015, , .		3
43	Closure to â€œLosses Reduction and Energy Production in Water-Distribution Networksâ€•by Nicola Fontana, Maurizio Giugni, and Davide Portolano. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 271-273.	1.3	2
44	Application of Innovative Technologies for Active Control and Energy Efficiency in Water Supply Systems. Water (Switzerland), 2020, 12, 3278.	1.2	2
45	A Model Driven Approach to Water Resource Analysis based on Formal Methods and Model Transformation. Procedia Computer Science, 2015, 51, 562-571.	1.2	1
46	Small-Scale Hydropower Generation in Water Distribution Networks by Using Pumps as Turbines. Proceedings (mdpi), 2018, 2, 1486.	0.2	1
47	Optimal Selection of Pumps As Turbines in Water Distribution Networks. Proceedings (mdpi), 2018, 2, .	0.2	1
48	Closure to â€œTransient Flow Caused by Air Expulsion through an Orificeâ€•by G. De Martino, N. Fontana, and M. Giugni. Journal of Hydraulic Engineering, 2010, 136, 269-271.	0.7	0