

# Nicola Fontana

## List of Publications by Year in descending order

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45  
papers

1,143  
citations

361413

20  
h-index

395702

33  
g-index

45  
all docs

45  
docs citations

45  
times ranked

874  
citing authors

#	ARTICLE	IF	CITATIONS
1	Losses Reduction and Energy Production in Water-Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 237-244.	2.6	145
2	Experimental characterization of two Pumps As Turbines for hydropower generation. Renewable Energy, 2016, 99, 180-187.	8.9	108
3	Real time control of water distribution networks: A state-of-the-art review. Water Research, 2019, 161, 517-530.	11.3	89
4	Optimal Location of PRVs and Turbines in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	71
5	Entropy approach for 2D velocity distribution in open-channel flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 784-790.	1.7	53
6	Transient Flow Caused by Air Expulsion through an Orifice. Journal of Hydraulic Engineering, 2008, 134, 1395-1399.	1.5	48
7	Variability and Trend in Seasonal Precipitation in the Continental United States. Journal of Hydrologic Engineering - ASCE, 2013, 18, 630-640.	1.9	47
8	Decision support system for the optimal design of district metered areas. Journal of Hydroinformatics, 2016, 18, 49-61.	2.4	45
9	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, .	2.6	40
10	Hydraulic Transients Caused by Air Expulsion During Rapid Filling of Undulating Pipelines. Water (Switzerland), 2016, 8, 25.	2.7	37
11	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.	2.6	33
12	Investigating drought in Apulia region, Italy using SPI and RDI. Theoretical and Applied Climatology, 2019, 137, 383-397.	2.8	32
13	Effects of vegetation density on shear layer in partly vegetated channels. Journal of Hydro-Environment Research, 2020, 30, 82-90.	2.2	32
14	Performance of vertical-axis pumps as turbines. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 482-493.	1.7	26
15	Pollution Reduction in Receivers: Storm-Water Tanks. Journal of the Urban Planning and Development Division, ASCE, 2011, 137, 29-38.	1.7	25
16	Simplified Approach for the Optimal Sizing of Throttled Air Chambers. Journal of Hydraulic Engineering, 2012, 138, 1101-1109.	1.5	23
17	Experimental Assessment of a 2-D Entropy-Based Model for Velocity Distribution in Open Channel Flow. Entropy, 2013, 15, 988-998.	2.2	23
18	Operation of a Prototype for Real Time Control of Pressure and Hydropower Generation in Water Distribution Networks. Water Resources Management, 2019, 33, 697-712.	3.9	23

#	ARTICLE	IF	CITATIONS
19	Derivation of 2D Power-Law Velocity Distribution Using Entropy Theory. <i>Entropy</i> , 2013, 15, 1221-1231.	2.2	21
20	Optimal Design of District Metered Areas in Water Distribution Networks. <i>Procedia Engineering</i> , 2014, 70, 449-457.	1.2	21
21	An Application of the Harmony-Search Multi-Objective (HSMO) Optimization Algorithm for the Solution of Pump Scheduling Problem. <i>Procedia Engineering</i> , 2016, 162, 494-502.	1.2	20
22	Optimal solving of the pump scheduling problem by using a Harmony Search optimization algorithm. <i>Journal of Hydroinformatics</i> , 2017, 19, 879-889.	2.4	20
23	Vegetated Channel Flows: Turbulence Anisotropy at Flow-Rigid Canopy Interface. <i>Geosciences (Switzerland)</i> , 2018, 8, 259.	2.2	20
24	Experimental assessment of level pool routing in preliminary design of floodplain storage. <i>Science of the Total Environment</i> , 2012, 416, 142-147.	8.0	18
25	Inertial Effects on Finite Length Pipe Seismic Response. <i>Mathematical Problems in Engineering</i> , 2012, 2012, 1-14.	1.1	13
26	Experimental Analysis of Heaving Phenomena in Sandy Soils. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 794-799.	1.5	12
27	Preliminary design of combined sewer overflows and stormwater tanks in Southern Italy. <i>Irrigation and Drainage</i> , 2011, 60, 544-555.	1.7	11
28	Pressure surges caused by air release in water pipelines. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 461-472.	1.7	10
29	Use of Hydraulically Operated PRVs for Pressure Regulation and Power Generation in Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, 04020047.	2.6	10
30	Experimental assessment of pressure-leakage relationship in a water distribution network. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 726-732.	2.1	9
31	Experimental assessment of the impact of number of stages on vertical axis multi-stage centrifugal PATs. <i>Renewable Energy</i> , 2021, 178, 891-903.	8.9	9
32	Comparison of PAT Installation Layouts for Energy Recovery from Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	2.6	9
33	A lab prototype of pressure control in water distribution networks. <i>IFAC-PapersOnLine</i> , 2017, 50, 15373-15378.	0.9	8
34	Derivation of 2D Velocity Distribution in Watercourses Using Entropy. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	1.9	7
35	Discussion of "Simple Guide for Design of Air Vessels for Water Hammer Protection of Pumping Lines" by D. Stephenson. <i>Journal of Hydraulic Engineering</i> , 2004, 130, 273-275.	1.5	4
36	Shortest path criterion for sampling design of water distribution networks. <i>Urban Water Journal</i> , 2015, 12, 154-164.	2.1	4

#	ARTICLE	IF	CITATIONS
37	Pressure surges during filling of partially empty undulating pipelines. ISH Journal of Hydraulic Engineering, 2021, 27, 244-252.	2.1	4
38	Mean Velocity and Entropy in Wide Channel Flows. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	1.9	3
39	A Methodology to Assess Optimal Operation of a Prototype for Pressure Regulation and Hydropower Generation. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	3
40	Closure to "Losses Reduction and Energy Production in Water-Distribution Networks" by Nicola Fontana, Maurizio Giugni, and Davide Portolano. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 271-273.	2.6	2
41	Variability and Trends in Streamflow in Northeast United States. Procedia Earth and Planetary Science, 2016, 16, 156-165.	0.6	2
42	Small-Scale Hydropower Generation in Water Distribution Networks by Using Pumps as Turbines. Proceedings (mdpi), 2018, 2, 1486.	0.2	1
43	Optimal Selection of Pumps As Turbines in Water Distribution Networks. Proceedings (mdpi), 2018, 2, .	0.2	1
44	Identification of Annual Water Demand Patterns in the City of Naples. Proceedings (mdpi), 2018, 2, 587.	0.2	1
45	Closure to "Transient Flow Caused by Air Expulsion through an Orifice" by G. De Martino, N. Fontana, and M. Giugni. Journal of Hydraulic Engineering, 2010, 136, 269-271.	1.5	0