

# Nicola Fontana

## List of Publications by Year in descending order

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45  
papers

1,143  
citations

411340

20  
h-index

445137

33  
g-index

45  
all docs

45  
docs citations

45  
times ranked

980  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure surges during filling of partially empty undulating pipelines. <i>ISH Journal of Hydraulic Engineering</i> , 2021, 27, 244-252.	1.1	4
2	Experimental assessment of the impact of number of stages on vertical axis multi-stage centrifugal PATs. <i>Renewable Energy</i> , 2021, 178, 891-903.	4.3	9
3	Comparison of PAT Installation Layouts for Energy Recovery from Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	9
4	A Methodology to Assess Optimal Operation of a Prototype for Pressure Regulation and Hydropower Generation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	3
5	Mean Velocity and Entropy in Wide Channel Flows. <i>Journal of Hydrologic Engineering - ASCE</i> , 2020, 25, .	0.8	3
6	Effects of vegetation density on shear layer in partly vegetated channels. <i>Journal of Hydro-Environment Research</i> , 2020, 30, 82-90.	1.0	32
7	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.	1.3	10
8	Investigating drought in Apulia region, Italy using SPI and RDI. <i>Theoretical and Applied Climatology</i> , 2019, 137, 383-397.	1.3	32
9	Real time control of water distribution networks: A state-of-the-art review. <i>Water Research</i> , 2019, 161, 517-530.	5.3	89
10	Operation of a Prototype for Real Time Control of Pressure and Hydropower Generation in Water Distribution Networks. <i>Water Resources Management</i> , 2019, 33, 697-712.	1.9	23
11	Performance of vertical-axis pumps as turbines. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018, 56, 482-493.	0.7	26
12	Real-Time Control of a PRV in Water Distribution Networks for Pressure Regulation: Theoretical Framework and Laboratory Experiments. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 04017075.	1.3	33
13	Vegetated Channel Flows: Turbulence Anisotropy at Flow-Rigid Canopy Interface. <i>Geosciences (Switzerland)</i> , 2018, 8, 259.	1.0	20
14	Small-Scale Hydropower Generation in Water Distribution Networks by Using Pumps as Turbines. <i>Proceedings (mdpi)</i> , 2018, 2, 1486.	0.2	1
15	Optimal Selection of Pumps As Turbines in Water Distribution Networks. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
16	Identification of Annual Water Demand Patterns in the City of Naples. <i>Proceedings (mdpi)</i> , 2018, 2, 587.	0.2	1
17	Derivation of 2D Velocity Distribution in Watercourses Using Entropy. <i>Journal of Hydrologic Engineering - ASCE</i> , 2017, 22, .	0.8	7
18	Experimental assessment of pressure-leakage relationship in a water distribution network. <i>Water Science and Technology: Water Supply</i> , 2017, 17, 726-732.	1.0	9

#	ARTICLE	IF	CITATIONS
19	A lab prototype of pressure control in water distribution networks. IFAC-PapersOnLine, 2017, 50, 15373-15378.	0.5	8
20	Optimal solving of the pump scheduling problem by using a Harmony Search optimization algorithm. Journal of Hydroinformatics, 2017, 19, 879-889.	1.1	20
21	Hydraulic Transients Caused by Air Expulsion During Rapid Filling of Undulating Pipelines. Water (Switzerland), 2016, 8, 25.	1.2	37
22	Decision support system for the optimal design of district metered areas. Journal of Hydroinformatics, 2016, 18, 49-61.	1.1	45
23	Experimental characterization of two Pumps As Turbines for hydropower generation. Renewable Energy, 2016, 99, 180-187.	4.3	108
24	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
25	Variability and Trends in Streamflow in Northeast United States. Procedia Earth and Planetary Science, 2016, 16, 156-165.	0.6	2
26	Pressure surges caused by air release in water pipelines. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 461-472.	0.7	10
27	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
28	Shortest path criterion for sampling design of water distribution networks. Urban Water Journal, 2015, 12, 154-164.	1.0	4
29	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.	1.3	2
30	Optimal Location of PRVs and Turbines in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	71
31	Optimal Design of District Metered Areas in Water Distribution Networks. Procedia Engineering, 2014, 70, 449-457.	1.2	21
32	Variability and Trend in Seasonal Precipitation in the Continental United States. Journal of Hydrologic Engineering - ASCE, 2013, 18, 630-640.	0.8	47
33	Derivation of 2D Power-Law Velocity Distribution Using Entropy Theory. Entropy, 2013, 15, 1221-1231.	1.1	21
34	Experimental Assessment of a 2-D Entropy-Based Model for Velocity Distribution in Open Channel Flow. Entropy, 2013, 15, 988-998.	1.1	23
35	Inertial Effects on Finite Length Pipe Seismic Response. Mathematical Problems in Engineering, 2012, 2012, 1-14.	0.6	13
36	Simplified Approach for the Optimal Sizing of Throttled Air Chambers. Journal of Hydraulic Engineering, 2012, 138, 1101-1109.	0.7	23

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37	Losses Reduction and Energy Production in Water-Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 237-244.	1.3	145
38	Experimental assessment of level pool routing in preliminary design of floodplain storage. Science of the Total Environment, 2012, 416, 142-147.	3.9	18
39	Entropy approach for 2D velocity distribution in open-channel flow. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 784-790.	0.7	53
40	Pollution Reduction in Receivers: Storm-Water Tanks. Journal of the Urban Planning and Development Division, ASCE, 2011, 137, 29-38.	0.8	25
41	Preliminary design of combined sewer overflows and stormwater tanks in Southern Italy. Irrigation and Drainage, 2011, 60, 544-555.	0.8	11
42	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.	0.7	0
43	Transient Flow Caused by Air Expulsion through an Orifice. Journal of Hydraulic Engineering, 2008, 134, 1395-1399.	0.7	48
44	Experimental Analysis of Heaving Phenomena in Sandy Soils. Journal of Hydraulic Engineering, 2008, 134, 794-799.	0.7	12
45	Discussion of "Simple Guide for Design of Air Vessels for Water Hammer Protection of Pumping Lines" by D. Stephenson. Journal of Hydraulic Engineering, 2004, 130, 273-275.	0.7	4