Oreste Fecarotta

List of Publications by Year
in descending order

37	1,352	489802 18	425179 34
papers	citations	h-index	g-index

38	38	38	583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pressure Drop and Energy Recovery with a New Centrifugal Micro-Turbine: Fundamentals and Application in a Real WDN. Energies, 2022, 15, 1528.	1.6	9
2	Potential Energy, Economic, and Environmental Impacts of Hydro Power Pressure Reduction on the Water-Energy-Food Nexus. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	10
3	New Challenges towards Smart Systemsâ€™ Efficiency by Digital Twin in Water Distribution Networks. Water (Switzerland), 2022, 14, 1304.	1.2	24
4	A New Low-Cost Technology Based on Pump as Turbines for Energy Recovery in Peripheral Water Networks Branches. Water (Switzerland), 2022, 14, 1526.	1.2	10
5	Optimal scheduling and control of a sewer pump under stochastic inflow pattern. Urban Water Journal, 2021, 18, 383-393.	1.0	1
6	A new mixed integer non-linear programming model for optimal PAT and PRV location in water distribution networks. Urban Water Journal, 2021, 18, 394-409.	1.0	26
7	Rheological Characterization of Non-Newtonian Mixtures by Pressure Pipe Tests. Fluids, 2021, 6, 419.	0.8	4
8	A New Preliminary Model to Optimize PATs Location in a Water Distribution Network. Environmental Sciences Proceedings, 2020, 2, .	0.3	7
9	Energy Transfer from the Freshwater to the Wastewater Network Using a PAT-Equipped Turbopump. Water (Switzerland), 2020, 12, 38.	1.2	13
10	A Performance Prediction Model for Pumps as Turbines (PATs). Water (Switzerland), 2020, 12, 1175.	1.2	18
11	Energy harvesting in water supply systems. , 2020, , 229-254.		0
12	Wastewater Pump Control under Mechanical Wear. Water (Switzerland), 2019, 11, 1210.	1.2	13
13	A new low-cost installation scheme of PATs for pico-hydropower to recover energy in residential areas. Renewable Energy, 2018, 125, 1003-1014.	4.3	41
14	Optimal Pump Scheduling for Urban Drainage under Variable Flow Conditions. Resources, 2018, 7, 73.	1.6	21
15	Preliminary Development of a Method for Impact Erosion Prediction in Pumps Running as Turbines. Proceedings (mdpi), 2018, 2, .	0.2	3
16	Reducing the Energy Dependency of Water Networks in Irrigation, Public Drinking Water, and Process Industry: REDAWN Project. Proceedings (mdpi), 2018, 2, 681.	0.2	4
17	Fine Tuning a PAT Hydropower Plant in a Water Supply Network to Improve System Effectiveness. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	46
18	A Comparison of Energy Recovery by PATs against Direct Variable Speed Pumping in Water Distribution Networks. Fluids, 2018, 3, 41.	0.8	31

#	Article	IF	Citations
19	Hydraulic Design of a USBR Type II Stilling Basin. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, .	0.6	33
20	Minimum Efficiency Index: testing its performance. World Pumps, 2017, 2017, 34-37.	1.0	6
21	Optimal Location of Pump as Turbines (PATs) in Water Distribution Networks to Recover Energy and Reduce Leakage. Water Resources Management, 2017, 31, 5043-5059.	1.9	72
22	Energy Saving in a Water Supply Network by Coupling a Pump and a Pump As Turbine (PAT) in a Turbopump. Water (Switzerland), 2017, 9, 62.	1.2	28
23	Optimization of Osmotic Desalination Plants for Water Supply Networks. Water Resources Management, 2016, 30, 3965-3978.	1.9	16
24	An improved affinity model to enhance variable operating strategy for pumps used as turbines. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 332-341.	0.7	69
25	Performance of Slurry Flow Models in Pressure Pipe Tests. Journal of Hydraulic Engineering, 2016, 142, .	0.7	4
26	Experimental results on the physical model of an USBR type II stilling basin. , 2016, , .		5
27	Hydropower Potential in Water Distribution Networks: Pressure Control by PATs. Water Resources Management, 2015, 29, 699-714.	1.9	107
28	Evaluation of PAT Performances by Modified Affinity Law.. Procedia Engineering, 2014, 89, 581-587.	1.2	25
29	PAT Efficiency Variation with Design Parameters. Procedia Engineering, 2014, 70, 285-291.	1.2	24
30	Energy Recovery in Water Systems by PATs: A Comparisons among the Different Installation Schemes. Procedia Engineering, 2014, 70, 275-284.	1.2	64
31	Cost-Benefit Analysis for Hydropower Production in Water Distribution Networks by a Pump as Turbine. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	77
32	Banki-Michell Optimal Design by Computational Fluid Dynamics Testing and Hydrodynamic Analysis. Energies, 2013, 6, 2362-2385.	1.6	112
33	PAT Design Strategy for Energy Recovery in Water Distribution Networks by Electrical Regulation. Energies, 2013, 6, 411-424.	1.6	153
34	Pump as Turbine (PAT) Design in Water Distribution Network by System Effectiveness. Water (Switzerland), 2013, 5, 1211-1225.	1.2	74
35	Energy Production in Water Distribution Networks: A PAT Design Strategy. Water Resources Management, 2012, 26, 3947-3959.	1.9	173
36	Numerical simulation on pump as turbine: Mesh reliability and performance concerns. , 2011, , .		21

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37	Assessment of Rheological Characteristics of a Natural Bingham-Plastic Mixture in Turbulent Pipe Flow. Journal of Hydraulic Engineering, 2010, 136, 820-825.	0.7	8