

Armando Carravetta

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,720
citations

331538

21
h-index

289141

40
g-index

56
all docs

56
docs citations

56
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure Drop and Energy Recovery with a New Centrifugal Micro-Turbine: Fundamentals and Application in a Real WDN. <i>Energies</i> , 2022, 15, 1528.	1.6	9
2	Potential Energy, Economic, and Environmental Impacts of Hydro Power Pressure Reduction on the Water-Energy-Food Nexus. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	10
3	New Challenges towards Smart Systemsâ€™ Efficiency by Digital Twin in Water Distribution Networks. <i>Water (Switzerland)</i> , 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. <i>Water (Switzerland)</i> , 2022, 14, 1526.	1.2	10
5	Multi-Country Scale Assessment of Available Energy Recovery Potential Using Micro-Hydropower in Drinking, Pressurised Irrigation and Wastewater Networks, Covering Part of the EU. <i>Water (Switzerland)</i> , 2021, 13, 899.	1.2	19
6	A new mixed integer non-linear programming model for optimal PAT and PRV location in water distribution networks. <i>Urban Water Journal</i> , 2021, 18, 394-409.	1.0	26
7	Sustainable Water-Energy Nexus towards Developing Countriesâ€™ Water Sector Efficiency. <i>Energies</i> , 2021, 14, 3525.	1.6	14
8	Asymptotic analysis of the eigenstructure of the two-layer model and a new family of criteria for evaluating the model hyperbolicity. <i>Advances in Water Resources</i> , 2021, 154, 103966.	1.7	7
9	Rheological Characterization of Non-Newtonian Mixtures by Pressure Pipe Tests. <i>Fluids</i> , 2021, 6, 419.	0.8	4
10	Zero-net energy management for the monitoring and control of dynamically-partitioned smart water systems. <i>Journal of Cleaner Production</i> , 2020, 252, 119745.	4.6	66
11	Environmental Hydraulics Research. <i>Water (Switzerland)</i> , 2020, 12, 2749.	1.2	1
12	A New Preliminary Model to Optimize PATs Location in a Water Distribution Network. <i>Environmental Sciences Proceedings</i> , 2020, 2, .	0.3	7
13	Application of Innovative Technologies for Active Control and Energy Efficiency in Water Supply Systems. <i>Water (Switzerland)</i> , 2020, 12, 3278.	1.2	2
14	New Challenges in Water Systems. <i>Water (Switzerland)</i> , 2020, 12, 2340.	1.2	12
15	Energy Transfer from the Freshwater to the Wastewater Network Using a PAT-Equipped Turbopump. <i>Water (Switzerland)</i> , 2020, 12, 38.	1.2	13
16	Energy harvesting in water supply systems. , 2020, , 229-254.		0
17	Challenges and improvements in applying a particle image velocimetry (PIV) approach to granular flows. <i>Journal of Physics: Conference Series</i> , 2019, 1249, 012011.	0.3	19
18	Flow Conditions for PATs Operating in Parallel: Experimental and Numerical Analyses. <i>Energies</i> , 2019, 12, 901.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Cost Model for Pumps as Turbines in Run-of-River and In-Pipe Microhydropower Applications. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	1.3	50
20	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
21	PAT Selection. Springer Tracts in Mechanical Engineering, 2018, , 77-96.	0.1	1
22	Location of a PAT in a Water Transmission and Distribution System. Springer Tracts in Mechanical Engineering, 2018, , 139-171.	0.1	0
23	Flow Velocity Distribution Towards Flowmeter Accuracy: CFD, UDV, and Field Tests. Water (Switzerland), 2018, 10, 1807.	1.2	14
24	Fostering Renewable Energies and Energy Efficiency in the Water Sector Using PATs and Wheels. Proceedings (mdpi), 2018, 2, .	0.2	1
25	Optimal Pump Scheduling for Urban Drainage under Variable Flow Conditions. Resources, 2018, 7, 73.	1.6	21
26	Preliminary Development of a Method for Impact Erosion Prediction in Pumps Running as Turbines. Proceedings (mdpi), 2018, 2, .	0.2	3
27	Measuring the velocity fields of granular flows " Employment of a multi-pass two-dimensional particle image velocimetry (2D-PIV) approach. Advanced Powder Technology, 2018, 29, 3107-3123.	2.0	49
28	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
29	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
30	Velocities in a Centrifugal PAT Operation: Experiments and CFD Analyses. Fluids, 2018, 3, 3.	0.8	12
31	A Comparison of Energy Recovery by PATs against Direct Variable Speed Pumping in Water Distribution Networks. Fluids, 2018, 3, 41.	0.8	31
32	Hydraulic Design of a USBR Type II Stilling Basin. Journal of Irrigation and Drainage Engineering - ASCE, 2017, 143, .	0.6	33
33	Some considerations on numerical schemes for treating hyperbolicity issues in two-layer models. Advances in Water Resources, 2017, 100, 183-198.	1.7	19
34	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
35	Optimization of Osmotic Desalination Plants for Water Supply Networks. Water Resources Management, 2016, 30, 3965-3978.	1.9	16
36	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

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37	Performance of Slurry Flow Models in Pressure Pipe Tests. Journal of Hydraulic Engineering, 2016, 142, .	0.7	4
38	Hydropower Potential in Water Distribution Networks: Pressure Control by PATs. Water Resources Management, 2015, 29, 699-714.	1.9	107
39	Flow regimes in a vertical drop shaft with a sharp-edged intake. Journal of Applied Water Engineering and Research, 2015, 3, 29-34.	1.0	5
40	A two-layer depth-averaged approach to describe the regime stratification in collapses of dry granular columns. Physics of Fluids, 2014, 26, .	1.6	22
41	Evaluation of PAT Performances by Modified Affinity Law.. Procedia Engineering, 2014, 89, 581-587.	1.2	25
42	PAT Efficiency Variation with Design Parameters. Procedia Engineering, 2014, 70, 285-291.	1.2	24
43	Energy Recovery in Water Systems by PATs: A Comparisons among the Different Installation Schemes. Procedia Engineering, 2014, 70, 275-284.	1.2	64
44	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
45	Pressure Coefficient in Dam-Break Flows of Dry Granular Matter. Journal of Hydraulic Engineering, 2013, 139, 1126-1133.	0.7	21
46	A permeability model for naturally fractured carbonate reservoirs. Marine and Petroleum Geology, 2013, 40, 115-134.	1.5	85
47	Banki-Michell Optimal Design by Computational Fluid Dynamics Testing and Hydrodynamic Analysis. Energies, 2013, 6, 2362-2385.	1.6	112
48	PAT Design Strategy for Energy Recovery in Water Distribution Networks by Electrical Regulation. Energies, 2013, 6, 411-424.	1.6	153
49	Experimental Analysis of a Vertical Drop Shaft. Water (Switzerland), 2013, 5, 1380-1392.	1.2	10
50	Pump as Turbine (PAT) Design in Water Distribution Network by System Effectiveness. Water (Switzerland), 2013, 5, 1211-1225.	1.2	74
51	Non Breaking Wave Forces at the Front Face of Seawave Slotcone Generators. Energies, 2012, 5, 4779-4803.	1.6	37
52	Energy Production in Water Distribution Networks: A PAT Design Strategy. Water Resources Management, 2012, 26, 3947-3959.	1.9	173
53	Numerical simulation on pump as turbine: Mesh reliability and performance concerns. , 2011, , .		21
54	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