

Armando Carravetta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7379338/publications.pdf>

Version: 2024-02-01

54
papers

1,720
citations

331259

21
h-index

288905

40
g-index

56
all docs

56
docs citations

56
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Production in Water Distribution Networks: A PAT Design Strategy. <i>Water Resources Management</i> , 2012, 26, 3947-3959.	1.9	173
2	PAT Design Strategy for Energy Recovery in Water Distribution Networks by Electrical Regulation. <i>Energies</i> , 2013, 6, 411-424.	1.6	153
3	Banki-Michell Optimal Design by Computational Fluid Dynamics Testing and Hydrodynamic Analysis. <i>Energies</i> , 2013, 6, 2362-2385.	1.6	112
4	Hydropower Potential in Water Distribution Networks: Pressure Control by PATs. <i>Water Resources Management</i> , 2015, 29, 699-714.	1.9	107
5	A permeability model for naturally fractured carbonate reservoirs. <i>Marine and Petroleum Geology</i> , 2013, 40, 115-134.	1.5	85
6	Cost-Benefit Analysis for Hydropower Production in Water Distribution Networks by a Pump as Turbine. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	1.3	77
7	Pump as Turbine (PAT) Design in Water Distribution Network by System Effectiveness. <i>Water (Switzerland)</i> , 2013, 5, 1211-1225.	1.2	74
8	An improved affinity model to enhance variable operating strategy for pumps used as turbines. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 332-341.	0.7	69
9	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
10	Energy Recovery in Water Systems by PATs: A Comparisons among the Different Installation Schemes. <i>Procedia Engineering</i> , 2014, 70, 275-284.	1.2	64
11	Cost Model for Pumps as Turbines in Run-of-River and In-Pipe Microhydropower Applications. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	50
12	Measuring the velocity fields of granular flows â€” Employment of a multi-pass two-dimensional particle image velocimetry (2D-PIV) approach. <i>Advanced Powder Technology</i> , 2018, 29, 3107-3123.	2.0	49
13	Fine Tuning a PAT Hydropower Plant in a Water Supply Network to Improve System Effectiveness. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	46
14	A new low-cost installation scheme of PATs for pico-hydropower to recover energy in residential areas. <i>Renewable Energy</i> , 2018, 125, 1003-1014.	4.3	41
15	Non Breaking Wave Forces at the Front Face of Seawave Slotcone Generators. <i>Energies</i> , 2012, 5, 4779-4803.	1.6	37
16	Hydraulic Design of a USBR Type II Stilling Basin. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2017, 143, .	0.6	33
17	A Comparison of Energy Recovery by PATs against Direct Variable Speed Pumping in Water Distribution Networks. <i>Fluids</i> , 2018, 3, 41.	0.8	31
18	Energy Saving in a Water Supply Network by Coupling a Pump and a Pump As Turbine (PAT) in a Turbopump. <i>Water (Switzerland)</i> , 2017, 9, 62.	1.2	28

#	ARTICLE	IF	CITATIONS
19	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
20	Evaluation of PAT Performances by Modified Affinity Law.. <i>Procedia Engineering</i> , 2014, 89, 581-587.	1.2	25
21	PAT Efficiency Variation with Design Parameters. <i>Procedia Engineering</i> , 2014, 70, 285-291.	1.2	24
22	New Challenges towards Smart Systemsâ€™ Efficiency by Digital Twin in Water Distribution Networks. <i>Water (Switzerland)</i> , 2022, 14, 1304.	1.2	24
23	A two-layer depth-averaged approach to describe the regime stratification in collapses of dry granular columns. <i>Physics of Fluids</i> , 2014, 26, .	1.6	22
24	Numerical simulation on pump as turbine: Mesh reliability and performance concerns. , 2011, , .		21
25	Pressure Coefficient in Dam-Break Flows of Dry Granular Matter. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 1126-1133.	0.7	21
26	Optimal Pump Scheduling for Urban Drainage under Variable Flow Conditions. <i>Resources</i> , 2018, 7, 73.	1.6	21
27	Some considerations on numerical schemes for treating hyperbolicity issues in two-layer models. <i>Advances in Water Resources</i> , 2017, 100, 183-198.	1.7	19
28	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
29	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
30	Optimization of Osmotic Desalination Plants for Water Supply Networks. <i>Water Resources Management</i> , 2016, 30, 3965-3978.	1.9	16
31	Flow Conditions for PATs Operating in Parallel: Experimental and Numerical Analyses. <i>Energies</i> , 2019, 12, 901.	1.6	15
32	Flow Velocity Distribution Towards Flowmeter Accuracy: CFD, UDV, and Field Tests. <i>Water (Switzerland)</i> , 2018, 10, 1807.	1.2	14
33	Sustainable Water-Energy Nexus towards Developing Countriesâ€™ Water Sector Efficiency. <i>Energies</i> , 2021, 14, 3525.	1.6	14
34	Energy Transfer from the Freshwater to the Wastewater Network Using a PAT-Equipped Turbopump. <i>Water (Switzerland)</i> , 2020, 12, 38.	1.2	13
35	Velocities in a Centrifugal PAT Operation: Experiments and CFD Analyses. <i>Fluids</i> , 2018, 3, 3.	0.8	12
36	New Challenges in Water Systems. <i>Water (Switzerland)</i> , 2020, 12, 2340.	1.2	12

#	ARTICLE	IF	CITATIONS
37	Experimental Analysis of a Vertical Drop Shaft. <i>Water (Switzerland)</i> , 2013, 5, 1380-1392.	1.2	10
38	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
39	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
40	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
41	Assessment of Rheological Characteristics of a Natural Bingham-Plastic Mixture in Turbulent Pipe Flow. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 820-825.	0.7	8
42	A New Preliminary Model to Optimize PATs Location in a Water Distribution Network. <i>Environmental Sciences Proceedings</i> , 2020, 2, .	0.3	7
43	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
44	Flow regimes in a vertical drop shaft with a sharp-edged intake. <i>Journal of Applied Water Engineering and Research</i> , 2015, 3, 29-34.	1.0	5
45	Performance of Slurry Flow Models in Pressure Pipe Tests. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	0.7	4
46	Reducing the Energy Dependency of Water Networks in Irrigation, Public Drinking Water, and Process Industry: REDAWN Project. <i>Proceedings (mdpi)</i> , 2018, 2, 681.	0.2	4
47	Rheological Characterization of Non-Newtonian Mixtures by Pressure Pipe Tests. <i>Fluids</i> , 2021, 6, 419.	0.8	4
48	Preliminary Development of a Method for Impact Erosion Prediction in Pumps Running as Turbines. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	3
49	Application of Innovative Technologies for Active Control and Energy Efficiency in Water Supply Systems. <i>Water (Switzerland)</i> , 2020, 12, 3278.	1.2	2
50	PAT Selection. <i>Springer Tracts in Mechanical Engineering</i> , 2018, , 77-96.	0.1	1
51	Fostering Renewable Energies and Energy Efficiency in the Water Sector Using PATs and Wheels. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	1
52	Environmental Hydraulics Research. <i>Water (Switzerland)</i> , 2020, 12, 2749.	1.2	1
53	Location of a PAT in a Water Transmission and Distribution System. <i>Springer Tracts in Mechanical Engineering</i> , 2018, , 139-171.	0.1	0
54	Energy harvesting in water supply systems. , 2020, , 229-254.		0