Bruno M Brentan

List of Publications by Year
in descending order

35 papers	637 citations	623574 14 h-index	610775 24 g-index
36 all docs	36 docs citations	36 times ranked	587 citing authors

#	Article	IF	Citations
1	Hybrid regression model for near real-time urban water demand forecasting. Journal of Computational and Applied Mathematics, 2017, 309, 532-541.	1.1	134
2	Selection and location of Pumps as Turbines substituting pressure reducing valves. Renewable Energy, 2017, 109, 392-405.	4.3	66
3	Hybrid SOM+k-Means clustering to improve planning, operation and management in water distribution systems. Environmental Modelling and Software, 2018, 106, 77-88.	1.9	35
4	Calibration Model for Water Distribution Network Using Pressures Estimated by Artificial Neural Networks. Water Resources Management, 2017, 31, 4339-4351.	1.9	29
5	Social Network Community Detection for DMA Creation: Criteria Analysis through Multilevel Optimization. Mathematical Problems in Engineering, 2017, 2017, 1-12.	0.6	28
6	Water Quality Sensor Placement: A Multi-Objective and Multi-Criteria Approach. Water Resources Management, 2021, 35, 225-241.	1.9	28
7	Joint Operation of Pressure-Reducing Valves and Pumps for Improving the Efficiency of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	27
8	Committee Machines for Hourly Water Demand Forecasting in Water Supply Systems. Mathematical Problems in Engineering, 2019, 2019, 1-11.	0.6	27
9	Social Network Community Detection and Hybrid Optimization for Dividing Water Supply into District Metered Areas. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	26
10	Graph Convolutional Recurrent Neural Networks for Water Demand Forecasting. Water Resources Research, 2022, 58, .	1.7	24
11	Optimal Placement of Pressure Sensors Using Fuzzy DEMATEL-Based Sensor Influence. Water (Switzerland), 2020, 12, 493.	1.2	19
12	District metered area design through multicriteria and multiobjective optimization. Mathematical Methods in the Applied Sciences, 2022, 45, 3254-3271.	1.2	19
13	A Digital Twin of a Water Distribution System by Using Graph Convolutional Networks for Pump Speed-Based State Estimation. Water (Switzerland), 2022, 14, 514.	1.2	18
14	Optimal sensor placement for contamination detection: A multi-objective and probabilistic approach. Environmental Modelling and Software, 2021, 135, 104896.	1.9	16
15	Layout Optimization Process to Minimize the Cost of Energy of an Offshore Floating Hybrid Wind–Wave Farm. Processes, 2020, 8, 139.	1.3	15
16	Trunk Network Rehabilitation for Resilience Improvement and Energy Recovery in Water Distribution Networks. Water (Switzerland), 2018, 10, 693.	1.2	14
17	Multi-criteria analysis applied to multi-objective optimal pump scheduling in water systems. Water Science and Technology: Water Supply, 2019, 19, 2338-2346.	1.0	14
18	Near Real Time Pump Optimization and Pressure Management. Procedia Engineering, 2017, 186, 666-675.	1.2	13

#	Article	IF	Citations
19	Correlation Analysis of Water Demand and Predictive Variables for Short-Term Forecasting Models. Mathematical Problems in Engineering, 2017, 2017, 1-10.	0.6	13
20	Near–Real Time Burst Location and Sizing in Water Distribution Systems Using Artificial Neural Networks. Water (Switzerland), 2021, 13, 1841.	1.2	11
21	Cyber-Attack Detection in Water Distribution Systems Based on Blind Sources Separation Technique. Water (Switzerland), 2021, 13, 795.	1.2	10
22	Grand Tour Algorithm: Novel Swarm-Based Optimization for High-Dimensional Problems. Processes, 2020, 8, 980.	1.3	7
23	Improving Water Age in Distribution Systems by Optimal Valve Operation. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	7
24	Pattern Recognition and Clustering of Transient Pressure Signals for Burst Location. Water (Switzerland), 2019, 11, 2279.	1.2	6
25	Rehabilitation in Intermittent Water Distribution Networks for Optimal Operation. Water (Switzerland), 2022, 14, 88.	1.2	6
26	Optimal pump selection for variable speed operation in water distribution network. Revista Brasileira De Recursos Hidricos, 0, 25, .	0.5	4
27	Managing expert knowledge in water network expansion project implementation. IFAC-PapersOnLine, 2021, 54, 36-40.	0.5	4
28	Enhanced Water Demand Analysis via Symbolic Approximation within an Epidemiology-Based Forecasting Framework. Water (Switzerland), 2019, 11, 246.	1.2	3
29	Optimal pressure management in water distribution networks through district metered area creation based on machine learning. Revista Brasileira De Recursos Hidricos, 0, 24, .	0.5	3
30	Multi-Objective and Multi-Criteria Analysis for Optimal Pump Scheduling in Water Systems. , 0, , .		3
31	Energy and Hydraulic Efficiency in Intermittent Operation of Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	3
32	Using data mining techniques to isolate chemical intrusion in water distribution systems. Environmental Monitoring and Assessment, 2022, 194, 203.	1.3	2
33	Optimal architecture for artificial neural networks as pressure estimator. Revista Brasileira De Recursos Hidricos, 0, 26, .	0.5	1
34	Hydraulic Capacity Recovery after Demand Expansion: Complex Network and Preference-Aided Multicriteria Analysis. , 2022, , .		1
35	Annlise Correlacional das Variiveis Climmticas e Sociais na Previsso de Demanda em Tempo Real (Correlational Analysis of Weather and Social Variables in Real-Time Demand Forecasting). SSRN Electronic Journal, 0, , .	0.4	0