

# Bruno M Brentan

## List of Publications by Year in descending order

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papers

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610482

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docs citations

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times ranked

587  
citing authors

#	ARTICLE	IF	CITATIONS
1	District metered area design through multicriteria and multiobjective optimization. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 3254-3271.	1.2	19
2	Rehabilitation in Intermittent Water Distribution Networks for Optimal Operation. <i>Water (Switzerland)</i> , 2022, 14, 88.	1.2	6
3	A Digital Twin of a Water Distribution System by Using Graph Convolutional Networks for Pump Speed-Based State Estimation. <i>Water (Switzerland)</i> , 2022, 14, 514.	1.2	18
4	Using data mining techniques to isolate chemical intrusion in water distribution systems. <i>Environmental Monitoring and Assessment</i> , 2022, 194, 203.	1.3	2
5	Energy and Hydraulic Efficiency in Intermittent Operation of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	3
6	Hydraulic Capacity Recovery after Demand Expansion: Complex Network and Preference-Aided Multicriteria Analysis. , 2022, , .		1
7	Graph Convolutional Recurrent Neural Networks for Water Demand Forecasting. <i>Water Resources Research</i> , 2022, 58, .	1.7	24
8	Optimal sensor placement for contamination detection: A multi-objective and probabilistic approach. <i>Environmental Modelling and Software</i> , 2021, 135, 104896.	1.9	16
9	Water Quality Sensor Placement: A Multi-Objective and Multi-Criteria Approach. <i>Water Resources Management</i> , 2021, 35, 225-241.	1.9	28
10	Cyber-Attack Detection in Water Distribution Systems Based on Blind Sources Separation Technique. <i>Water (Switzerland)</i> , 2021, 13, 795.	1.2	10
11	Near-Real Time Burst Location and Sizing in Water Distribution Systems Using Artificial Neural Networks. <i>Water (Switzerland)</i> , 2021, 13, 1841.	1.2	11
12	Improving Water Age in Distribution Systems by Optimal Valve Operation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	7
13	Managing expert knowledge in water network expansion project implementation. <i>IFAC-PapersOnLine</i> , 2021, 54, 36-40.	0.5	4
14	Grand Tour Algorithm: Novel Swarm-Based Optimization for High-Dimensional Problems. <i>Processes</i> , 2020, 8, 980.	1.3	7
15	Optimal Placement of Pressure Sensors Using Fuzzy DEMATEL-Based Sensor Influence. <i>Water (Switzerland)</i> , 2020, 12, 493.	1.2	19
16	Layout Optimization Process to Minimize the Cost of Energy of an Offshore Floating Hybrid Wind-Wave Farm. <i>Processes</i> , 2020, 8, 139.	1.3	15
17	Multi-criteria analysis applied to multi-objective optimal pump scheduling in water systems. <i>Water Science and Technology: Water Supply</i> , 2019, 19, 2338-2346.	1.0	14
18	Committee Machines for Hourly Water Demand Forecasting in Water Supply Systems. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-11.	0.6	27

#	ARTICLE	IF	CITATIONS
19	Enhanced Water Demand Analysis via Symbolic Approximation within an Epidemiology-Based Forecasting Framework. <i>Water (Switzerland)</i> , 2019, 11, 246.	1.2	3
20	Pattern Recognition and Clustering of Transient Pressure Signals for Burst Location. <i>Water (Switzerland)</i> , 2019, 11, 2279.	1.2	6
21	Hybrid SOM+k-Means clustering to improve planning, operation and management in water distribution systems. <i>Environmental Modelling and Software</i> , 2018, 106, 77-88.	1.9	35
22	Social Network Community Detection and Hybrid Optimization for Dividing Water Supply into District Metered Areas. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	26
23	Joint Operation of Pressure-Reducing Valves and Pumps for Improving the Efficiency of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	27
24	Trunk Network Rehabilitation for Resilience Improvement and Energy Recovery in Water Distribution Networks. <i>Water (Switzerland)</i> , 2018, 10, 693.	1.2	14
25	Hybrid regression model for near real-time urban water demand forecasting. <i>Journal of Computational and Applied Mathematics</i> , 2017, 309, 532-541.	1.1	134
26	Selection and location of Pumps as Turbines substituting pressure reducing valves. <i>Renewable Energy</i> , 2017, 109, 392-405.	4.3	66
27	Calibration Model for Water Distribution Network Using Pressures Estimated by Artificial Neural Networks. <i>Water Resources Management</i> , 2017, 31, 4339-4351.	1.9	29
28	Near Real Time Pump Optimization and Pressure Management. <i>Procedia Engineering</i> , 2017, 186, 666-675.	1.2	13
29	Social Network Community Detection for DMA Creation: Criteria Analysis through Multilevel Optimization. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-12.	0.6	28
30	Correlation Analysis of Water Demand and Predictive Variables for Short-Term Forecasting Models. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-10.	0.6	13
31	Análise Correlacional das Variáveis Climáticas e Sociais na Previsão de Demanda em Tempo Real (Correlational Analysis of Weather and Social Variables in Real-Time Demand Forecasting). <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
32	Optimal pressure management in water distribution networks through district metered area creation based on machine learning. <i>Revista Brasileira De Recursos Hídricos</i> , 0, 24, .	0.5	3
33	Multi-Objective and Multi-Criteria Analysis for Optimal Pump Scheduling in Water Systems. , 0, , .		3
34	Optimal pump selection for variable speed operation in water distribution network. <i>Revista Brasileira De Recursos Hídricos</i> , 0, 25, .	0.5	4
35	Optimal architecture for artificial neural networks as pressure estimator. <i>Revista Brasileira De Recursos Hídricos</i> , 0, 26, .	0.5	1