

D A SaviÄ

List of Publications by Year in descending order

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280
papers

13,001
citations

25034

57
h-index

30087

103
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286
all docs

286
docs citations

286
times ranked

7880
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of methods for leakage management in pipe networks. <i>Urban Water Journal</i> , 2010, 7, 25-45.	2.1	532
2	State of the Art for Genetic Algorithms and Beyond in Water Resources Planning and Management. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 412-432.	2.6	490
3	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions. <i>Environmental Modelling and Software</i> , 2014, 62, 271-299.	4.5	477
4	The Battle of the Water Sensor Networks (BWSN): A Design Challenge for Engineers and Algorithms. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 556-568.	2.6	464
5	Wastewater reuse in Europe. <i>Desalination</i> , 2006, 187, 89-101.	8.2	376
6	Pressure-Driven Demand and Leakage Simulation for Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 626-635.	1.5	306
7	Water Network Rehabilitation with Structured Messy Genetic Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1997, 123, 137-146.	2.6	258
8	Comparison of 1D/1D and 1D/2D Coupled (Sewer/Surface) Hydraulic Models for Urban Flood Simulation. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 495-504.	1.5	246
9	An Investigation on Preference Order Ranking Scheme for Multiobjective Evolutionary Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2007, 11, 17-45.	10.0	243
10	Evaluation of fuzzy linear regression models. <i>Fuzzy Sets and Systems</i> , 1991, 39, 51-63.	2.7	238
11	Trade-off between Total Cost and Reliability for Anytown Water Distribution Network. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005, 131, 161-171.	2.6	235
12	Operational Optimization of Water Distribution Systems Using a Hybrid Genetic Algorithm. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2004, 130, 160-170.	2.6	232
13	Lost in optimisation of water distribution systems? A literature review of system operation. <i>Environmental Modelling and Software</i> , 2017, 93, 209-254.	4.5	195
14	A Genetic Programming Approach to Rainfall-Runoff Modelling. <i>Water Resources Management</i> , 1999, 13, 219-231.	3.9	185
15	Advances in data-driven analyses and modelling using EPR-MOGA. <i>Journal of Hydroinformatics</i> , 2009, 11, 225-236.	2.4	176
16	Multiobjective design of water distribution systems under uncertainty. <i>Water Resources Research</i> , 2005, 41, .	4.2	174
17	Evolutionary multi-objective optimization in water distribution network design. <i>Engineering Optimization</i> , 2005, 37, 167-183.	2.6	171
18	Development of pipe deterioration models for water distribution systems using EPR. <i>Journal of Hydroinformatics</i> , 2008, 10, 113-126.	2.4	166

#	ARTICLE	IF	CITATIONS
19	Quo vadis water distribution model calibration?. Urban Water Journal, 2009, 6, 3-22.	2.1	166
20	Two-Objective Design of Benchmark Problems of a Water Distribution System via MOEAs: Towards the Best-Known Approximation of the True Pareto Front. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	157
21	An integrated framework for high-resolution urban flood modelling considering multiple information sources and urban features. Environmental Modelling and Software, 2018, 107, 85-95.	4.5	150
22	Least-Cost Design of Water Distribution Networks under Demand Uncertainty. Journal of Water Resources Planning and Management - ASCE, 2005, 131, 375-382.	2.6	149
23	Automated Detection of Pipe Bursts and Other Events in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 457-467.	2.6	145
24	Battle of the Water Calibration Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 523-532.	2.6	134
25	An integrated model to evaluate water-energy-food nexus at a household scale. Environmental Modelling and Software, 2017, 93, 366-380.	4.5	134
26	Stochastic sampling design using a multi-objective genetic algorithm and adaptive neural networks. Environmental Modelling and Software, 2009, 24, 530-541.	4.5	123
27	Assessing pipe failure rate and mechanical reliability of water distribution networks using data-driven modeling. Journal of Hydroinformatics, 2009, 11, 1-17.	2.4	123
28	Booster Disinfection of Water Supply Networks: Multiobjective Approach. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 367-376.	2.6	121
29	Identification of segments and optimal isolation valve system design in water distribution networks. Urban Water Journal, 2010, 7, 1-15.	2.1	121
30	SIPSON " Simulation of Interaction between Pipe flow and Surface Overland flow in Networks. Water Science and Technology, 2005, 52, 275-283.	2.5	116
31	Multiobjective Sampling Design for Water Distribution Model Calibration. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 466-479.	2.6	115
32	A multi-model approach to analysis of environmental phenomena. Environmental Modelling and Software, 2007, 22, 674-682.	4.5	105
33	Lost in Optimisation of Water Distribution Systems? A Literature Review of System Design. Water (Switzerland), 2018, 10, 307.	2.7	103
34	A DSS generator for multiobjective optimisation of spreadsheet-based models. Environmental Modelling and Software, 2011, 26, 551-561.	4.5	101
35	Attribution of flood risk in urban areas. Journal of Hydroinformatics, 2008, 10, 275-288.	2.4	98
36	Formulation of a fast 2D urban pluvial flood model using a cellular automata approach. Journal of Hydroinformatics, 2013, 15, 676-686.	2.4	95

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37	Dealing with Uncertainty in Water Distribution System Models: A Framework for Real-Time Modeling and Data Assimilation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 169-183.	2.6	95
38	Integrated System Dynamics Modelling for water scarcity assessment: Case study of the Kairouan region. <i>Science of the Total Environment</i> , 2012, 440, 290-306.	8.0	93
39	Crowdsourcing Methods for Data Collection in Geophysics: State of the Art, Issues, and Future Directions. <i>Reviews of Geophysics</i> , 2018, 56, 698-740.	23.0	90
40	Efficient multi-objective optimal design of water distribution networks on a budget of simulations using hybrid algorithms. <i>Environmental Modelling and Software</i> , 2009, 24, 202-213.	4.5	87
41	Probabilistic prediction of urban water consumption using the SCEM-UA algorithm. <i>Urban Water Journal</i> , 2008, 5, 125-132.	2.1	83
42	Algorithm for Automatic Detection of Topological Changes in Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 435-446.	1.5	82
43	An evolutionary Bayesian belief network methodology for optimum management of groundwater contamination. <i>Environmental Modelling and Software</i> , 2009, 24, 303-310.	4.5	80
44	Calibration of Water Distribution Hydraulic Models Using a Bayesian-Type Procedure. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 927-936.	1.5	78
45	Multi-objective optimization of water distribution systems based on a real options approach. <i>Environmental Modelling and Software</i> , 2015, 63, 1-13.	4.5	75
46	Fuzzy Multiobjective Optimization of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005, 131, 467-476.	2.6	74
47	Risk-Based Sensor Placement for Contaminant Detection in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 629-636.	2.6	74
48	Graph-Theoretic Approach and Sound Engineering Principles for Design of District Metered Areas. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	2.6	74
49	Development of rehabilitation plans for water mains replacement considering risk and cost-benefit assessment. <i>Civil Engineering and Environmental Systems</i> , 2006, 23, 175-190.	0.9	71
50	Optimal Sampling Design Methodologies for Water Distribution Model Calibration. <i>Journal of Hydraulic Engineering</i> , 2005, 131, 190-200.	1.5	70
51	Multi-Stakeholder Development of a Serious Game to Explore the Water-Energy-Food-Land-Climate Nexus: The SIM4NEXUS Approach. <i>Water (Switzerland)</i> , 2018, 10, 139.	2.7	69
52	Comparing Low and High-Level Hybrid Algorithms on the Two-Objective Optimal Design of Water Distribution Systems. <i>Water Resources Management</i> , 2015, 29, 1-16.	3.9	66
53	Symbolic and numerical regression: experiments and applications. <i>Information Sciences</i> , 2003, 150, 95-117.	6.9	65
54	Leak Localization in a Real Water Distribution Network Based on Search-Space Reduction. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	2.6	62

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55	AN EVOLUTION PROGRAM FOR OPTIMAL PRESSURE REGULATION IN WATER DISTRIBUTION NETWORKS. <i>Engineering Optimization</i> , 1995, 24, 197-219.	2.6	61
56	Extended Period Simulation Analysis Considering Valve Shutdowns. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 527-537.	2.6	60
57	Calibration of a 1D/1D urban flood model using 1D/2D model results in the absence of field data. <i>Water Science and Technology</i> , 2011, 64, 1016-1024.	2.5	59
58	A coarse-grid approach to representing building blockage effects in 2D urban flood modelling. <i>Journal of Hydrology</i> , 2012, 426-427, 1-16.	5.4	59
59	Operational resilience of reservoirs to climate change, agricultural demand, and tourism: A case study from Sardinia. <i>Science of the Total Environment</i> , 2016, 543, 1028-1038.	8.0	59
60	A risk-based assessment of the household water-energy-food nexus under the impact of seasonal variability. <i>Journal of Cleaner Production</i> , 2018, 171, 1275-1289.	9.3	59
61	Water Reservoir Control with Data Mining. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2003, 129, 26-34.	2.6	58
62	Effects of Redesign of Water Systems for Security and Water Quality Factors. , 2009, , .		57
63	An analysis of the combined consequences of pluvial and fluvial flooding. <i>Water Science and Technology</i> , 2010, 62, 1491-1498.	2.5	54
64	Using Complex Network Analysis for Optimization of Water Distribution Networks. <i>Water Resources Research</i> , 2020, 56, e2020WR027929.	4.2	53
65	Method for the identification of explicit polynomial formulae for the friction in turbulent pipe flow. <i>Journal of Hydroinformatics</i> , 1999, 1, 115-126.	2.4	51
66	Municipal wastewater reclamation: where do we stand? An overview of treatment technology and management practice. <i>Water Science and Technology: Water Supply</i> , 2005, 5, 77-85.	2.1	51
67	Modelling sewer failure by evolutionary computing. <i>Water Management</i> , 2006, 159, 111-118.	1.2	51
68	Multi-objective rehabilitation of urban drainage systems under uncertainties. <i>Journal of Hydroinformatics</i> , 2014, 16, 1044-1061.	2.4	49
69	Serious Gaming for Water Systems Planning and Management. <i>Water (Switzerland)</i> , 2016, 8, 456.	2.7	49
70	Exploring the potential climate change impact on urban growth in London by a cellular automata-based Markov chain model. <i>Computers, Environment and Urban Systems</i> , 2018, 68, 121-132.	7.1	49
71	Multi-layered coarse grid modelling in 2D urban flood simulations. <i>Journal of Hydrology</i> , 2012, 470-471, 1-11.	5.4	48
72	Water Supply Reservoir Operation by Combined Genetic Algorithm & Linear Programming (GA-LP) Approach. <i>Water Resources Management</i> , 2006, 20, 227-255.	3.9	47

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73	Urban Hydroinformatics: Past, Present and Future. <i>Water (Switzerland)</i> , 2019, 11, 1959.	2.7	47
74	Risk- and robustness-based solutions to a multi-objective water distribution system rehabilitation problem under uncertainty. <i>Water Science and Technology</i> , 2006, 53, 61-75.	2.5	46
75	Robust Least-Cost Design of Water Distribution Networks Using Redundancy and Integration-Based Methodologies. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2007, 133, 67-77.	2.6	46
76	Asset deterioration analysis using multi-utility data and multi-objective data mining. <i>Journal of Hydroinformatics</i> , 2009, 11, 211-224.	2.4	46
77	Economic considerations and decision support tool for wastewater reuse scheme planning. <i>Water Science and Technology</i> , 2007, 56, 175-182.	2.5	45
78	Multi-criterion water quality analysis of the Danube River in Serbia: A visualisation approach. <i>Water Research</i> , 2015, 79, 158-172.	11.3	44
79	Operational and Tactical Management of Water and Energy Resources in Pressurized Systems: Competition at WDSA 2014. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	44
80	Multi-Reservoir Operation Planning Using Hybrid Genetic Algorithm and Linear Programming (GA-LP): An Alternative Stochastic Approach. <i>Water Resources Management</i> , 2005, 19, 831-848.	3.9	42
81	SLOTS: Effective Algorithm for Sensor Placement in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 620-628.	2.6	42
82	Application of Artificial Neural Networks for Dengue Fever Outbreak Predictions in the Northwest Coast of Yucatan, Mexico and San Juan, Puerto Rico. <i>Tropical Medicine and Infectious Disease</i> , 2018, 3, 5.	2.3	42
83	Forecasting Domestic Water Consumption from Smart Meter Readings Using Statistical Methods and Artificial Neural Networks. <i>Procedia Engineering</i> , 2015, 119, 1419-1428.	1.2	41
84	Geostatistical techniques for approximate location of pipe burst events in water distribution systems. <i>Journal of Hydroinformatics</i> , 2013, 15, 634-651.	2.4	40
85	<sc>G</sc>ALAXY: A new hybrid <sc>M</sc>OEA for the optimal design of <sc>W</sc>ater <sc>D</sc>istribution <sc>S</sc>ystems. <i>Water Resources Research</i> , 2017, 53, 1997-2015.	4.2	40
86	Assessing and visualising hazard impacts to enhance the resilience of Critical Infrastructures to urban flooding. <i>Science of the Total Environment</i> , 2020, 707, 136078.	8.0	40
87	Scheduling of Water Distribution System Rehabilitation Using Structured Messy Genetic Algorithms. <i>Evolutionary Computation</i> , 1999, 7, 311-329.	3.0	39
88	Optimum Design and Management of Pressurized Branched Irrigation Networks. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2007, 133, 528-537.	1.0	39
89	Evolutionary Algorithm and Expectation Maximization Strategies for Improved Detection of Pipe Bursts and Other Events in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 572-584.	2.6	39
90	Design and Performance of District Metering Areas in Water Distribution Systems. <i>Procedia Engineering</i> , 2014, 89, 1136-1143.	1.2	38

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91	Intelligent Decision Support and Reservoir Management and Operations. Journal of Computing in Civil Engineering, 1989, 3, 367-385.	4.7	37
92	An evolutionary multiobjective strategy for the effective management of groundwater resources. Water Resources Research, 2008, 44, .	4.2	37
93	Efficient Leak Localization in Water Distribution Systems Using Multistage Optimal Valve Operations and Smart Demand Metering. Water Resources Research, 2020, 56, e2020WR028285.	4.2	37
94	Comparison of three data-driven techniques in modelling the evapotranspiration process. Journal of Hydroinformatics, 2010, 12, 365-379.	2.4	36
95	Multi-stage Linear Programming Optimization for Pump Scheduling. Procedia Engineering, 2014, 70, 1378-1385.	1.2	36
96	Interdisciplinary assessment of sea-level rise and climate change impacts on the lower Nile delta, Egypt. Science of the Total Environment, 2015, 503-504, 279-288.	8.0	35
97	Parameterization of NSGA-II for the Optimal Design of Water Distribution Systems. Water (Switzerland), 2019, 11, 971.	2.7	35
98	Water quality modeling in sewer networks: Review and future research directions. Water Research, 2021, 202, 117419.	11.3	35
99	Automatic Multi-objective Sectorization of a Water Distribution Network. Procedia Engineering, 2014, 89, 1200-1207.	1.2	34
100	A Variable Rate Coefficient Chlorine Decay Model. Environmental Science & Technology, 2009, 43, 408-414.	10.0	33
101	Computationally Efficient Modeling Method for Large Water Network Analysis. Journal of Hydraulic Engineering, 2012, 138, 313-326.	1.5	32
102	Battle of the Water Networks District Metered Areas. Journal of Water Resources Planning and Management - ASCE, 2019, 145, 04019002.	2.6	32
103	Assessing the global resilience of water quality sensor placement strategies within water distribution systems. Water Research, 2020, 172, 115527.	11.3	32
104	Smart Meters, Smart Water, Smart Societies: The iWIDGET Project. Procedia Engineering, 2014, 89, 1105-1112.	1.2	31
105	Considering the Mutual Dependence of Pulse Duration and Intensity in Models for Generating Residential Water Demand. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	31
106	Prediction of weekly nitrate-N fluctuations in a small agricultural watershed in Illinois. Journal of Hydroinformatics, 2010, 12, 251-261.	2.4	30
107	A diameter-sensitive flow entropy method for reliability consideration in water distribution system design. Water Resources Research, 2014, 50, 5597-5610.	4.2	30
108	Parameterizing residential water demand pulse models through smart meter readings. Environmental Modelling and Software, 2016, 80, 33-40.	4.5	30

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109	Economic Performance of DMAs in Water Distribution Systems. <i>Procedia Engineering</i> , 2015, 119, 189-195.	1.2	29
110	An effective multi-objective approach to prioritisation of sewer pipe inspection. <i>Water Science and Technology</i> , 2009, 60, 841-850.	2.5	28
111	A Serious Game Designed to Explore and Understand the Complexities of Flood Mitigation Options in Urban-Rural Catchments. <i>Water (Switzerland)</i> , 2018, 10, 1885.	2.7	28
112	Water Quality Model Calibration under Unknown Demands. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 326-336.	2.6	27
113	Battle of Background Leakage Assessment for Water Networks (BBLAWN) at WDSA Conference 2014. <i>Procedia Engineering</i> , 2014, 89, 4-12.	1.2	27
114	An investigation of the efficient implementation of cellular automata on multi-core CPU and GPU hardware. <i>Journal of Parallel and Distributed Computing</i> , 2015, 77, 11-25.	4.1	27
115	Using Real Options in the Optimal Design of Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	27
116	Interactive Decomposition Multiobjective Optimization Via Progressively Learned Value Functions. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 849-860.	9.8	27
117	Decision-support tools for sustainable urban development. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2005, 158, 135-142.	0.7	26
118	A multi-objective optimisation model for sewer rehabilitation considering critical risk of failure. <i>Water Science and Technology</i> , 2012, 66, 2410-2417.	2.5	26
119	Comparative Analysis of System Dynamics and Object-Oriented Bayesian Networks Modelling for Water Systems Management. <i>Water Resources Management</i> , 2013, 27, 819-841.	3.9	26
120	The Nile Water-Food-Energy Nexus under Uncertainty: Impacts of the Grand Ethiopian Renaissance Dam. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	2.6	26
121	Probabilistic building block identification for the optimal design and rehabilitation of water distribution systems. <i>Journal of Hydroinformatics</i> , 2009, 11, 89-105.	2.4	25
122	An investigation on stream temperature analysis based on evolutionary computing. <i>Hydrological Processes</i> , 2008, 22, 315-326.	2.6	24
123	Impact of urban water supply on energy use in China: a provincial and national comparison. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016, 21, 1213-1233.	2.1	24
124	Simulating Marginal and Dependence Behaviour of Water Demand Processes at Any Fine Time Scale. <i>Water (Switzerland)</i> , 2019, 11, 885.	2.7	24
125	Optimal opportunistic maintenance policy using genetic algorithms, 1: formulation. <i>Journal of Quality in Maintenance Engineering</i> , 1995, 1, 34-49.	1.7	23
126	From single-objective to multiple-objective multiple-rainfall events automatic calibration of urban storm water runoff models using genetic algorithms. <i>Water Science and Technology</i> , 2006, 54, 57-64.	2.5	23

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127	Integrated modelling of a coupled water-agricultural system using system dynamics. Journal of Water and Climate Change, 2013, 4, 209-231.	2.9	23
128	Adaptive locally constrained genetic algorithm for least-cost water distribution network design. Journal of Hydroinformatics, 2014, 16, 288-301.	2.4	23
129	Using a Systematic, Multi-criteria Decision Support Framework to Evaluate Sustainable Drainage Designs. Procedia Engineering, 2014, 70, 343-352.	1.2	23
130	A Dynamic Adaptive Approach for Water Distribution Network Design. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	23
131	Tank Simulation for the Optimization of Water Distribution Networks. Journal of Hydraulic Engineering, 2007, 133, 625-636.	1.5	22
132	An analysis of the interface between evolutionary algorithm operators and problem features for water resources problems. A case study in water distribution network design. Environmental Modelling and Software, 2015, 69, 414-424.	4.5	22
133	Rapid assessment of surface-water flood-management options in urban catchments. Urban Water Journal, 2018, 15, 210-217.	2.1	22
134	Development of an integrated simulation model for treatment and distribution of reclaimed water. Desalination, 2006, 188, 9-20.	8.2	21
135	A general multi-objective hyper-heuristic for water distribution network design with discolouration risk. Journal of Hydroinformatics, 2013, 15, 700-716.	2.4	21
136	Heuristic Modelling of the Water Resources Management in the Guadalquivir River Basin, Southern Spain. Water Resources Management, 2012, 26, 185-209.	3.9	20
137	Application of Formal and Informal Bayesian Methods for Water Distribution Hydraulic Model Calibration. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	20
138	Selection of relevant input variables in storm water quality modeling by multiobjective evolutionary polynomial regression paradigm. Water Resources Research, 2016, 52, 2403-2419.	4.2	20
139	Fuzzy hierarchical decision support system for water distribution network optimization. Civil Engineering and Environmental Systems, 2006, 23, 237-261.	0.9	19
140	Economic level of reliability for the rehabilitation of hydraulic networks. Civil Engineering and Environmental Systems, 2006, 23, 191-207.	0.9	19
141	Development and validation of system design principles for water reuse systems. Desalination, 2008, 218, 142-153.	8.2	19
142	Identification of Measurement Points for Calibration of Water Distribution Network Models. Procedia Engineering, 2014, 89, 693-701.	1.2	19
143	Integrated Optimal Cost and Pressure Management for Water Distribution Systems. Procedia Engineering, 2014, 70, 1659-1668.	1.2	19
144	Evolving sustainable water networks. Hydrological Sciences Journal, 1997, 42, 549-564.	2.6	18

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145	Incorporating spatial and temporal information for urban drainage model calibration: An approach using preference ordering genetic algorithm. <i>Advances in Water Resources</i> , 2006, 29, 1168-1181.	3.8	18
146	Comparison of two methods for the stochastic least cost design of water distribution systems. <i>Engineering Optimization</i> , 2006, 38, 281-297.	2.6	18
147	Real-Time Leak Detection in Water Distribution Systems. , 2011, , .		18
148	Artificial Intelligence Techniques for Flood Risk Management in Urban Environments. <i>Procedia Engineering</i> , 2014, 70, 1505-1512.	1.2	18
149	Real-time Data Assimilation in Urban Rainfall-runoff Models. <i>Procedia Engineering</i> , 2014, 70, 843-852.	1.2	18
150	Quick and accurate Cellular Automata sewer simulator. <i>Journal of Hydroinformatics</i> , 2014, 16, 1359-1374.	2.4	18
151	Optimising wastewater treatment solutions for the removal of contaminants of emerging concern (CECs): a case study for application in India. <i>Journal of Hydroinformatics</i> , 2020, 22, 93-110.	2.4	18
152	An Efficient Algorithm for Sensor Placement in Water Distribution Systems. , 2008, , .		17
153	Multiobjective Optimization for the Least-Cost Design of Water Distribution System Under Correlated Uncertain Parameters. , 2005, , 1.		16
154	An evolutionary Bayesian belief network methodology for participatory decision making under uncertainty: An application to groundwater management. <i>Integrated Environmental Assessment and Management</i> , 2012, 8, 456-461.	2.9	16
155	Improving the Effectiveness of Multiobjective Optimization Design of Urban Drainage Systems. <i>Water Resources Research</i> , 2020, 56, e2019WR026656.	4.2	16
156	Real-time foul sewer hydraulic modelling driven by water consumption data from water distribution systems. <i>Water Research</i> , 2021, 188, 116544.	11.3	16
157	Self-Adaptive Fitness Formulation for Evolutionary Constrained Optimization of Water Systems. <i>Journal of Computing in Civil Engineering</i> , 2005, 19, 212-216.	4.7	15
158	Probabilistic Leak Detection in Pipe Networks Using the SCEM-UA Algorithm. , 2008, , .		15
159	Burst Detection and Location in Water Distribution Systems. , 2011, , .		15
160	Using high performance techniques to accelerate demand-driven hydraulic solvers. <i>Journal of Hydroinformatics</i> , 2013, 15, 38-54.	2.4	15
161	A Web-based Platform for Water Efficient Households. <i>Procedia Engineering</i> , 2014, 89, 1128-1135.	1.2	15
162	Hybrid metaheuristics for multi-objective design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2014, 16, 165-177.	2.4	15

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163	Using real options for an eco-friendly design of water distribution systems. Journal of Hydroinformatics, 2015, 17, 20-35.	2.4	15
164	Simplified Approach to Water Distribution System Management via Identification of a Primary Network. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	15
165	Comparison of Multiobjective Optimization Methods Applied to Urban Drainage Adaptation Problems. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 04018070.	2.6	15
166	Automatic calibration of urban drainage model using a novel multi-objective genetic algorithm. Water Science and Technology, 2005, 52, 43-52.	2.5	14
167	Robust optimization methodologies for water supply systems design. Drinking Water Engineering and Science, 2012, 5, 31-37.	0.8	14
168	Flow regime identification for air valves failure evaluation in water pipelines using pressure data. Water Research, 2019, 165, 115002.	11.3	14
169	A Flexible Approach for the Reinforcement of Water Networks Using Multi-Criteria Decision Analysis. Water Resources Management, 2020, 34, 4469-4490.	3.9	14
170	Battle of Postdisaster Response and Restoration. Journal of Water Resources Planning and Management - ASCE, 2020, 146, 04020067.	2.6	14
171	Real-time modelling of a major water supply system. Water Management, 2007, 160, 103-108.	1.2	13
172	Assessing Financial Loss due to Pluvial Flooding and the Efficacy of Risk-Reduction Measures in the Residential Property Sector. Water Resources Management, 2015, 29, 161-179.	3.9	13
173	Operation of Multiple Pumped-Water Sources with No Storage. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	13
174	Knowledge-based multi-objective genetic algorithms for the design of water distribution networks. Journal of Hydroinformatics, 2020, 22, 402-422.	2.4	13
175	Optimal, opportunistic maintenance policy using genetic algorithms, 2: analysis. Journal of Quality in Maintenance Engineering, 1995, 1, 25-34.	1.7	12
176	Determining maintenance requirements of a water distribution network using whole life costing. Journal of Quality in Maintenance Engineering, 2002, 8, 152-164.	1.7	12
177	CWSNET: An Object-Oriented Toolkit for Water Distribution System Simulations. , 2011, , .		12
178	Automated construction of evolutionary algorithm operators for the bi-objective water distribution network design problem using a genetic programming based hyper-heuristic approach. Journal of Hydroinformatics, 2014, 16, 302-318.	2.4	12
179	Water quality and macrophytes in the Danube River: Artificial neural network modelling. Ecological Indicators, 2021, 121, 107076.	6.3	12
180	Multi-objective optimization of water distribution system design under uncertain demand and pipe roughness. , 2007, , 161-172.		11

#	ARTICLE	IF	CITATIONS
181	Optimal Water Supply System Management by Leakage Reduction and Energy Recovery. <i>Procedia Engineering</i> , 2014, 89, 573-580.	1.2	11
182	Predicting culturable enterococci exceedances at Escambron Beach, San Juan, Puerto Rico using satellite remote sensing and artificial neural networks. <i>Journal of Water and Health</i> , 2019, 17, 137-148.	2.6	11
183	Digital Water Developments and Lessons Learned from Automation in the Car and Aircraft Industries. <i>Engineering</i> , 2022, 9, 35-41.	6.7	11
184	Whole life costing: application to water distribution network. <i>Water Science and Technology: Water Supply</i> , 2003, 3, 87-93.	2.1	11
185	Modelling gene regulatory data using artificial neural networks. , 0, , .		10
186	The Simultaneous Multi-Objective Optimization of Anytown Pipe Rehabilitation, Tank Sizing, Tank Siting, and Pump Operation Schedules. , 2004, , 1.		10
187	Explicit Integration Method for Extended-Period Simulation of Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 385-392.	1.5	10
188	Development of a Leakage Target Setting Approach for South Korea Based on Economic Level of Leakage. <i>Procedia Engineering</i> , 2015, 119, 120-129.	1.2	10
189	Sequence Analysis-based Hyper-heuristics for Water Distribution Network Optimisation. <i>Procedia Engineering</i> , 2015, 119, 1269-1277.	1.2	10
190	3D visualisation tool for improving the resilience to urban and coastal flooding in Torbay, UK. <i>Procedia Engineering</i> , 2018, 212, 809-815.	1.2	10
191	Cost Savings on Large Water Distribution Systems: Design through Genetic Algorithm Optimization. , 2000, , 1.		9
192	Title is missing!. <i>Water Resources Management</i> , 2003, 17, 183-196.	3.9	9
193	An Efficient Sampling-Based Approach for the Robust Rehabilitation of Water Distribution Systems Under Correlated Nodal Demands. , 2005, , 1.		9
194	Combining Model Predictive Control with Constraint-satisfaction Formulation for the Operative Pumping Control in Water Networks. <i>Procedia Engineering</i> , 2015, 119, 963-972.	1.2	9
195	Rehabilitating pressurized irrigation networks for an increased energy efficiency. <i>Agricultural Water Management</i> , 2016, 164, 212-222.	5.6	9
196	Serious Game Approach to Water Distribution System Design and Rehabilitation Problems. <i>Procedia Engineering</i> , 2017, 186, 76-83.	1.2	9
197	Explicit Expressions for State Estimation Sensitivity Analysis in Water Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	2.6	9
198	Hydroinformatics technology and maintenance of UK water networks. <i>Journal of Quality in Maintenance Engineering</i> , 1997, 3, 289-301.	1.7	8

#	ARTICLE	IF	CITATIONS
199	A decision support framework for sustainable urban water planning and management in new urban areas. <i>Water Science and Technology</i> , 2006, 54, 451-458.	2.5	8
200	Resilient Behavior of Cement-Fiber Treated Reclaimed Asphalt Pavement Aggregates. , 2009, , .		8
201	Deficient-Network Simulation Considering Pressure-Dependent Demand. , 2011, , .		8
202	Multi-Objective Cuckoo Search for the Optimal Design of Water Distribution Systems. , 2012, , .		8
203	Model Calibration as a Tool for Leakage Identification in WDS: A Real Case Study. <i>Procedia Engineering</i> , 2014, 89, 672-678.	1.2	8
204	A Multicriteria Approach for a Phased Design of Water Distribution Networks. <i>Procedia Engineering</i> , 2015, 119, 1231-1240.	1.2	8
205	Performance of LEMMO with artificial neural networks for water systems optimisation. <i>Urban Water Journal</i> , 2019, 16, 21-32.	2.1	8
206	Analysis of Pressure Management Economics in Water Distribution Systems. , 2009, , .		7
207	Decision Support System for emergency scheduling of raw water supply systems with multiple sources. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 777-786.	6.0	7
208	Dealing with Uncertainty through Real Options for the Multi-objective Design of Water Distribution Networks. <i>Procedia Engineering</i> , 2014, 89, 856-863.	1.2	7
209	An Interactive Approach to Selection and Use of Single Multipurpose Reservoir Models. <i>Water Resources Research</i> , 1991, 27, 2509-2521.	4.2	6
210	Selecting risk levels in chance-constrained reservoir operation modeling: A fuzzy set approach. <i>Water Resources Management</i> , 1991, 4, 251-271.	3.9	6
211	Hybridising Rule Induction and Multi-Objective Evolutionary Search for Optimising Water Distribution Systems. , 0, , .		6
212	Influence of Swell Pressure from Expansive Fill on Retaining Wall Stability. , 2009, , .		6
213	Decision Support for Optimal Design of Water Distribution Networks: A Real Options Approach. <i>Procedia Engineering</i> , 2014, 70, 1074-1083.	1.2	6
214	Identification of Leakages by Calibration of WDS Models. <i>Procedia Engineering</i> , 2014, 70, 660-667.	1.2	6
215	Preserving Duration-intensity Correlation on Synthetically Generated Water Demand Pulses. <i>Procedia Engineering</i> , 2015, 119, 1463-1472.	1.2	6
216	Development and Application of a Multi-Objective-Optimization and Multi-Criteria-Based Decision Support Tool for Selecting Optimal Water Treatment Technologies in India. <i>Water (Switzerland)</i> , 2020, 12, 2836.	2.7	6

#	ARTICLE	IF	CITATIONS
217	Case study of the cascading effects on critical infrastructure in Torbay coastal/pluvial flooding with climate change and 3D visualisation. Journal of Hydroinformatics, 2020, 22, 77-92.	2.4	6
218	Water-food-energy nexus for transboundary cooperation in Eastern Africa. Water Science and Technology: Water Supply, 2022, 22, 3567-3587.	2.1	6
219	A Rapid Optimization Prototyping Tool for Spreadsheet-Based Models. , 2009, , .		5
220	Operational Perspective of the Impact of Failures in Water Distribution Systems. , 2009, , .		5
221	A Real-Time Intervention Management Model for Reducing Impacts Due to Pipe Isolation in Water Distribution Systems. , 2011, , .		5
222	Advances in Water Mains Network Modelling for Improved Operations. Procedia Engineering, 2015, 119, 593-602.	1.2	5
223	Assessing spatial and temporal variations in regional sustainability in mainland China from 2004 to 2014. Clean Technologies and Environmental Policy, 2018, 20, 1185-1194.	4.1	5
224	Foul sewer model development using geotagged information and smart water meter data. Water Research, 2021, 204, 117594.	11.3	5
225	Evolving rules from neural networks trained on continuous data. , 0, , .		4
226	An integrated approach to least-cost planning of water reuse schemes. Water Science and Technology: Water Supply, 2006, 6, 93-100.	2.1	4
227	Conceptual Risk-Based Decision Support Methodology for Improved Near Real-Time Response to WDS Failures. , 2009, , .		4
228	Instrumentation of MSE Wall Containing Laterally Loaded Drilled Shafts. , 2009, , .		4
229	Calibration of Water Distribution System Using Topological Analysis. , 2011, , .		4
230	Understanding the efficient parallelisation of cellular automata on CPU and GPGPU hardware. , 2013, , .		4
231	Assessment of the Effectiveness of a Risk-reduction Measure on Pluvial Flooding and Economic Loss in Eindhoven, the Netherlands. Procedia Engineering, 2014, 70, 1619-1628.	1.2	4
232	The influence of the existing network layout on water distribution system redesign analysis. Journal of Hydroinformatics, 2014, 16, 1375-1389.	2.4	4
233	Correlation or not Correlation? This is the Question in Modelling Residential Water Demand Pulses. Procedia Engineering, 2015, 119, 1455-1462.	1.2	4
234	Editorial: Current water challenges require holistic and global solutions. Journal of Hydroinformatics, 2018, 20, 533-534.	2.4	4

#	ARTICLE	IF	CITATIONS
235	Human-evolutionary problem solving through gamification of a bin-packing problem. , 2019, , .		4
236	Augmented evolutionary intelligence. , 2019, , .		4
237	Forensic engineering analysis applied to flood control. Journal of Hydrology, 2021, 594, 125961.	5.4	4
238	Human-Derived Heuristic Enhancement of an Evolutionary Algorithm for the 2D Bin-Packing Problem. Lecture Notes in Computer Science, 2020, , 413-427.	1.3	4
239	Robust least cost design of water distribution systems using GAs. , 2003, , .		4
240	Quantification of Mains Failure Behavior in a Whole Life Costing Approach to Distribution System Management. , 2001, , 1.		3
241	Discussion of "Optimization of Water Distribution Networks Using Integer and Linear Programming" by Hossein M. V. Samani and Alireza Mottaghi. Journal of Hydraulic Engineering, 2008, 134, 1024-1025.	1.5	3
242	Project Neptune: Improved Operation of Water Distribution Networks. , 2009, , .		3
243	Detecting Topological Changes in Large Water Distribution Networks. , 2009, , .		3
244	An optimised total expenditure approach to sewerage management. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 2014, 167, 191-199.	0.7	3
245	Water Resource Systems Analysis for Water Scarcity Management: The Thames Water Case Study. Water (Switzerland), 2020, 12, 1761.	2.7	3
246	Hydroinformatics education "the Water Informatics in Science and Engineering (WISE) Centre for Doctoral Training. Hydrology and Earth System Sciences, 2021, 25, 2721-2738.	4.9	3
247	Symbolic and Numerical Regression: Experiments and Applications. , 2001, , 175-182.		3
248	Use of Prior Information on Parameters in Inverse Transient Analysis for Leak Detection and Roughness Calibration. , 2001, , 1.		2
249	Geotechnical Properties of Solidified Sludge by Mixing Cement and Calcium-Bentonite. , 2009, , .		2
250	Numerical Analysis of Consolidation of Soft Ground Improved by the DJM-PVD Combined Method. , 2009, , .		2
251	Optimization of sensor locations for contaminant detection in water distribution networks. , 2010, , .		2
252	Emergency Management of Water Distribution Systems: The Nodal Demand Control. Procedia Engineering, 2017, 186, 428-435.	1.2	2

#	ARTICLE	IF	CITATIONS
253	Using Genetic Algorithms in the UK Water Industry. , 2000, , 1.		1
254	Evolutionary Computing in Water Distribution and Wastewater Systems. , 2001, , 1.		1
255	An Explicit Integration Technique for Dynamic Modeling of Water Distribution Systems. , 2001, , 1.		1
256	Fuzzy Rules for Hydraulic Reliability-Based Design and Operation of Water Distribution Systems. , 2005, , 1.		1
257	Neighbourhood Search for constructing Pareto sets. Mathematical Methods of Operations Research, 2007, 65, 315-337.	1.0	1
258	Optimal Design of Isolation Valve System for Water Distribution Networks. , 2009, , .		1
259	Risk-Cost Based Decision Support System for the Rehabilitation of Water Distribution Networks. , 2009, , .		1
260	Optimal Sensor Placement for the Efficient Contaminant Detection in Water Distribution Systems. , 2009, , .		1
261	Probabilistic Building Block Identification for the Multi-Objective Design and Rehabilitation of Water Distribution Systems. , 2009, , .		1
262	Closure to "Optimum Design and Management of Pressurized Branched Irrigation Networks" by Raziye Farmani, Ricardo Abadía, and Dragan Savic. Journal of Irrigation and Drainage Engineering - ASCE, 2010, 136, 159-160.	1.0	1
263	Analysis of Simplification Errors for Water Distribution Models. , 2011, , .		1
264	Briefing: Negotiating value at the research"practice interface in the water sector. Proceedings of Institution of Civil Engineers: Management, Procurement and Law, 2015, 168, 8-11.	0.5	1
265	Wastewater System Ventilation " A Friend or Adversary?. Green Energy and Technology, 2019, , 712-716.	0.6	1
266	Global and Evolutionary Optimization for Water Management Problems. Water Science and Technology Library, 2009, , 231-243.	0.3	1
267	Evolutionary-based Meta-modelling: The Relevance of Using Approximate Models in Hydroinformatics. Water Science and Technology Library, 2009, , 275-290.	0.3	1
268	Adaptive augmented evolutionary intelligence for the design of water distribution networks. , 2020, , .		1
269	PRACTICAL IMPLICATIONS OF USING INDUCED TRANSIENTS FOR LEAK DETECTION. Journal of Urban and Environmental Engineering, 2007, 1, 36-43.	0.3	1
270	IMPLEMENTATION OF GENERALISED CROSS-CORRELATION WITH LARGE CHANGES IN PARAMETERS USING GENETIC ALGORITHMS. Engineering Optimization, 1999, 31, 489-513.	2.6	0

#	ARTICLE	IF	CITATIONS
271	From data mining to rule refining. A new tool for post data mining rule optimisation. , 0, , .		0
272	Water System Reliability Predictions Using Data Mining. , 2001, , 1.		0
273	Multiobjective Optimal Rehabilitation of Hydraulic Networks based on the Cost of Reliability. , 2008, , .		0
274	Lessons Learned: Field Installation of Strain Gages on High-Strength Geotextile. , 2009, , .		0
275	An Operative Approach to Water Distribution System Rehabilitation. , 2009, , .		0
276	Pipe smoothing genetic algorithm for least cost water distribution network design. , 2013, , .		0
277	Editorial: Understanding changing climate and environment and finding solutions. Journal of Hydroinformatics, 2014, 16, 245-247.	2.4	0
278	Discussion of "New Pressure-Driven Approach for Modeling Water Distribution Networks" by Herman A. Mahmoud, Dragan SaviÄž, and Zoran Kapelan. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 07018005.	2.6	0
279	A Decision Support Tool for Wastewater Catchment Management. Water Practice and Technology, 2007, 2, .	2.0	0
280	Evolutionary Bayesian Belief Networks for Participatory Water Resources Management under Uncertainty. , 0, , 156-171.		0