

Zoran Kapelan

List of Publications by Citations

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papers

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ext. citations

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avg, IF

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L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 178 | 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 | 5.2 | 391 |
| 177 | A review of methods for leakage management in pipe networks. <i>Urban Water Journal</i> , 2010 , 7, 25-45 | 2.3 | 382 |
| 176 | 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 | 2.8 | 357 |
| 175 | Pressure-Driven Demand and Leakage Simulation for Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 626-635 | 1.8 | 237 |
| 174 | Multiobjective design of water distribution systems under uncertainty. <i>Water Resources Research</i> , 2005 , 41, | 5.4 | 137 |
| 173 | Quo vadis water distribution model calibration?. <i>Urban Water Journal</i> , 2009 , 6, 3-22 | 2.3 | 132 |
| 172 | Development of pipe deterioration models for water distribution systems using EPR. <i>Journal of Hydroinformatics</i> , 2008 , 10, 113-126 | 2.6 | 127 |
| 171 | Least-Cost Design of Water Distribution Networks under Demand Uncertainty. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005 , 131, 375-382 | 2.8 | 117 |
| 170 | A hybrid inverse transient model for leakage detection and roughness calibration in pipe networks. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2003 , 41, 481-492 | 1.9 | 116 |
| 169 | Two-Objective Design of Benchmark Problems of a Water Distribution System via MOEAs: Towards the Best-Known Approximation of the True Pareto Front. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04014060 | 2.8 | 112 |
| 168 | Optimal Design of Water Distribution Systems Using Many-Objective Visual Analytics. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013 , 139, 624-633 | 2.8 | 108 |
| 167 | Assessing the Co-Benefits of green-blue-grey infrastructure for sustainable urban flood risk management. <i>Journal of Environmental Management</i> , 2019 , 239, 244-254 | 7.9 | 104 |
| 166 | Adaptive Flood Risk Management Under Climate Change Uncertainty Using Real Options and Optimization. <i>Risk Analysis</i> , 2014 , 34, 75-92 | 3.9 | 103 |
| 165 | Stochastic sampling design using a multi-objective genetic algorithm and adaptive neural networks. <i>Environmental Modelling and Software</i> , 2009 , 24, 530-541 | 5.2 | 102 |
| 164 | Battle of the Water Calibration Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012 , 138, 523-532 | 2.8 | 95 |
| 163 | Automated Detection of Pipe Bursts and Other Events in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 457-467 | 2.8 | 93 |
| 162 | Multiobjective Sampling Design for Water Distribution Model Calibration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2003 , 129, 466-479 | 2.8 | 91 |

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| 161 | Introductory overview: Optimization using evolutionary algorithms and other metaheuristics. <i>Environmental Modelling and Software</i> , 2019 , 114, 195-213 | 5.2 | 83 |
| 160 | Fast Hybrid Optimization Method for Effective Pump Scheduling. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013 , 139, 175-183 | 2.8 | 82 |
| 159 | Real Options in flood risk management decision making. <i>Journal of Flood Risk Management</i> , 2011 , 4, 339-349 | 3.4 | 78 |
| 158 | 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 | 10.2 | 76 |
| 157 | Probabilistic prediction of urban water consumption using the SCEM-UA algorithm. <i>Urban Water Journal</i> , 2008 , 5, 125-132 | 2.3 | 73 |
| 156 | Reducing the Complexity of Multiobjective Water Distribution System Optimization through Global Sensitivity Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012 , 138, 196-207 | 2.8 | 71 |
| 155 | Using Information-Gap Decision Theory for Water Resources Planning Under Severe Uncertainty. <i>Water Resources Management</i> , 2013 , 27, 1149-1172 | 3.7 | 67 |
| 154 | Adaptive water demand forecasting for near real-time management of smart water distribution systems. <i>Environmental Modelling and Software</i> , 2014 , 60, 265-276 | 5.2 | 65 |
| 153 | Calibration of Water Distribution Hydraulic Models Using a Bayesian-Type Procedure. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 927-936 | 1.8 | 65 |
| 152 | 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 | 2.8 | 61 |
| 151 | Exploring trade-offs among the multiple benefits of green-blue-grey infrastructure for urban flood mitigation. <i>Science of the Total Environment</i> , 2020 , 703, 134980 | 10.2 | 61 |
| 150 | Robust optimization of water infrastructure planning under deep uncertainty using metamodels. <i>Environmental Modelling and Software</i> , 2017 , 93, 92-105 | 5.2 | 59 |
| 149 | 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 | 3.7 | 59 |
| 148 | Algorithm for Automatic Detection of Topological Changes in Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 435-446 | 1.8 | 58 |
| 147 | Fuzzy probabilistic design of water distribution networks. <i>Water Resources Research</i> , 2011 , 47, | 5.4 | 56 |
| 146 | Optimal Sampling Design Methodologies for Water Distribution Model Calibration. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 190-200 | 1.8 | 56 |
| 145 | Managing uncertainty in multiple-criteria decision making related to sustainability assessment. <i>Clean Technologies and Environmental Policy</i> , 2011 , 13, 133-139 | 4.3 | 54 |
| 144 | Multi-criteria Approach for Selection of Green and Grey Infrastructure to Reduce Flood Risk and Increase CO-benefits. <i>Water Resources Management</i> , 2018 , 32, 2505-2522 | 3.7 | 49 |

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| 143 | Extended Period Simulation Analysis Considering Valve Shutdowns. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 527-537 | 2.8 | 48 |
| 142 | Multi-objective rehabilitation of urban drainage systems under uncertainties. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1044-1061 | 2.6 | 40 |
| 141 | Modelling metabolism based performance of an urban water system using WaterMet2. <i>Resources, Conservation and Recycling</i> , 2015 , 99, 84-99 | 11.9 | 39 |
| 140 | Flexible Water Distribution System Design under Future Demand Uncertainty. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04014067 | 2.8 | 39 |
| 139 | Advantages of integrated and sustainability based assessment for metabolism based strategic planning of urban water systems. <i>Science of the Total Environment</i> , 2015 , 527-528, 220-31 | 10.2 | 39 |
| 138 | Incorporation of prior information on parameters in inverse transient analysis for leak detection and roughness calibration. <i>Urban Water Journal</i> , 2004 , 1, 129-143 | 2.3 | 39 |
| 137 | Comparison of Robust Optimization and Info-Gap Methods for Water Resource Management under Deep Uncertainty. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04016028 | 2.8 | 38 |
| 136 | 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, | 2.8 | 36 |
| 135 | COMPREHENSIVE RISK MANAGEMENT USING FUZZY FMEA AND MCDA TECHNIQUES IN HIGHWAY CONSTRUCTION PROJECTS. <i>Journal of Civil Engineering and Management</i> , 2016 , 23, 300-310 | 3 | 36 |
| 134 | Leak Detection and Localization through Demand Components Calibration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04015057 | 2.8 | 36 |
| 133 | Using Smart Meters for Household Water Consumption Feedback: Knowns and Unknowns. <i>Procedia Engineering</i> , 2014 , 89, 990-997 | | 36 |
| 132 | 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 | 2.2 | 36 |
| 131 | SLOTS: Effective Algorithm for Sensor Placement in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010 , 136, 620-628 | 2.8 | 35 |
| 130 | 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 | 2.8 | 35 |
| 129 | Multiobjective Optimization for Improved Management of Flood Risk. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 201-215 | 2.8 | 34 |
| 128 | A probabilistic methodology for quantifying, diagnosing and reducing model structural and predictive errors in short term water demand forecasting. <i>Environmental Modelling and Software</i> , 2015 , 66, 87-97 | 5.2 | 31 |
| 127 | Interdisciplinary assessment of sea-level rise and climate change impacts on the lower Nile delta, Egypt. <i>Science of the Total Environment</i> , 2015 , 503-504, 279-88 | 10.2 | 30 |
| 126 | Geostatistical techniques for approximate location of pipe burst events in water distribution systems. <i>Journal of Hydroinformatics</i> , 2013 , 15, 634-651 | 2.6 | 30 |

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| 125 | Drinking Water Temperature around the Globe: Understanding, Policies, Challenges and Opportunities. <i>Water (Switzerland)</i> , 2020 , 12, 1049 | 3 | 30 |
| 124 | Forecasting Domestic Water Consumption from Smart Meter Readings Using Statistical Methods and Artificial Neural Networks. <i>Procedia Engineering</i> , 2015 , 119, 1419-1428 | | 29 |
| 123 | Considering the Mutual Dependence of Pulse Duration and Intensity in Models for Generating Residential Water Demand. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015 , 141, 04015031 | 2.8 | 28 |
| 122 | Metabolism-modelling approaches to long-term sustainability assessment of urban water services. <i>Urban Water Journal</i> , 2017 , 14, 11-22 | 2.3 | 27 |
| 121 | A Probabilistic Short-Term Water Demand Forecasting Model Based on the Markov Chain. <i>Water (Switzerland)</i> , 2017 , 9, 507 | 3 | 27 |
| 120 | Parameterizing residential water demand pulse models through smart meter readings. <i>Environmental Modelling and Software</i> , 2016 , 80, 33-40 | 5.2 | 26 |
| 119 | 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, 04019024 | 2.8 | 25 |
| 118 | Automated detection of faults in sewers using CCTV image sequences. <i>Automation in Construction</i> , 2018 , 95, 64-71 | 9.6 | 24 |
| 117 | Smart Meters, Smart Water, Smart Societies: The iWIDGET Project. <i>Procedia Engineering</i> , 2014 , 89, 1105-1112 | | 23 |
| 116 | Improved real-time data anomaly detection using context classification. <i>Journal of Hydroinformatics</i> , 2011 , 13, 307-323 | 2.6 | 22 |
| 115 | Real-time Burst Detection in Water Distribution Systems Using a Bayesian Demand Forecasting Methodology. <i>Procedia Engineering</i> , 2015 , 119, 13-18 | | 21 |
| 114 | A diameter-sensitive flow entropy method for reliability consideration in water distribution system design. <i>Water Resources Research</i> , 2014 , 50, 5597-5610 | 5.4 | 21 |
| 113 | Comparative Analysis of System Dynamics and Object-Oriented Bayesian Networks Modelling for Water Systems Management. <i>Water Resources Management</i> , 2013 , 27, 819-841 | 3.7 | 21 |
| 112 | Reducing life-cycle carbon footprint in the (re)design of water distribution systems using water demand management interventions. <i>Urban Water Journal</i> , 2014 , 11, 91-107 | 2.3 | 21 |
| 111 | An effective multi-objective approach to prioritization of sewer pipe inspection. <i>Water Science and Technology</i> , 2009 , 60, 841-50 | 2.2 | 21 |
| 110 | Pipe burst diagnostics using evidence theory. <i>Journal of Hydroinformatics</i> , 2011 , 13, 596-608 | 2.6 | 21 |
| 109 | Assessing the global resilience of water quality sensor placement strategies within water distribution systems. <i>Water Research</i> , 2020 , 172, 115527 | 12.5 | 20 |
| 108 | Probabilistic building block identification for the optimal design and rehabilitation of water distribution systems. <i>Journal of Hydroinformatics</i> , 2009 , 11, 89-105 | 2.6 | 20 |

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| 107 | GALAXY: A new hybrid MOEA for the optimal design of Water Distribution Systems. <i>Water Resources Research</i> , 2017 , 53, 1997-2015 | 5.4 | 19 |
| 106 | Using a Systematic, Multi-criteria Decision Support Framework to Evaluate Sustainable Drainage Designs. <i>Procedia Engineering</i> , 2014 , 70, 343-352 | | 19 |
| 105 | Integrated modelling of a coupled water-agricultural system using system dynamics. <i>Journal of Water and Climate Change</i> , 2013 , 4, 209-231 | 2.3 | 19 |
| 104 | An ensemble stacked model with bias correction for improved water demand forecasting. <i>Urban Water Journal</i> , 2020 , 17, 212-223 | 2.3 | 18 |
| 103 | Automated Detection of Faults in Wastewater Pipes from CCTV Footage by Using Random Forests. <i>Procedia Engineering</i> , 2016 , 154, 36-41 | | 18 |
| 102 | Predicting non-deposition sediment transport in sewer pipes using Random forest. <i>Water Research</i> , 2021 , 189, 116639 | 12.5 | 18 |
| 101 | Water Demand Forecasting Accuracy and Influencing Factors at Different Spatial Scales Using a Gradient Boosting Machine. <i>Water Resources Research</i> , 2020 , 56, e2019WR026304 | 5.4 | 17 |
| 100 | Hourly and Daily Urban Water Demand Predictions Using a Long Short-Term Memory Based Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 05020017 | 2.8 | 17 |
| 99 | Flood analysis of urban drainage systems: Probabilistic dependence structure of rainfall characteristics and fuzzy model parameters. <i>Journal of Hydroinformatics</i> , 2013 , 15, 687-699 | 2.6 | 17 |
| 98 | Improving the Resilience of Postdisaster Water Distribution Systems Using Dynamic Optimization Framework. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04019075 | 2.8 | 17 |
| 97 | Real-Time Operational Response Methodology for Reducing Failure Impacts in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 04018029 | 2.8 | 16 |
| 96 | Integrated Optimal Cost and Pressure Management for Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 70, 1659-1668 | | 16 |
| 95 | Online Burst Detection in a Water Distribution System Using the Kalman Filter and Hydraulic Modelling. <i>Procedia Engineering</i> , 2014 , 89, 418-427 | | 16 |
| 94 | A novel machine learning application: Water quality resilience prediction Model. <i>Science of the Total Environment</i> , 2021 , 768, 144459 | 10.2 | 16 |
| 93 | Can smart rainwater harvesting schemes result in the improved performance of integrated urban water systems?. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 19271-19282 | 5.1 | 16 |
| 92 | Statistical Process Control Based System for Approximate Location of Pipe Bursts and Leaks in Water Distribution Systems. <i>Procedia Engineering</i> , 2017 , 186, 236-243 | | 15 |
| 91 | Predicting bedload sediment transport of non-cohesive material in sewer pipes using evolutionary polynomial regression [multi-objective genetic algorithm strategy. <i>Urban Water Journal</i> , 2020 , 17, 154-162 | 2.3 | 15 |
| 90 | Optimal energy recovery by means of pumps as turbines (PATs) for improved WDS management. <i>Water Science and Technology: Water Supply</i> , 2018 , 18, 1365-1374 | 1.4 | 15 |

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| 89 | Real-time Data Assimilation in Urban Rainfall-runoff Models. <i>Procedia Engineering</i> , 2014 , 70, 843-852 | | 15 |
| 88 | Urban Water System Metabolism Assessment Using WaterMet2 Model. <i>Procedia Engineering</i> , 2014 , 70, 113-122 | | 15 |
| 87 | Short-term forecasting of turbidity in trunk main networks. <i>Water Research</i> , 2017 , 124, 67-76 | 12.5 | 15 |
| 86 | Hybrid metaheuristics for multi-objective design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2014 , 16, 165-177 | 2.6 | 15 |
| 85 | Comparison of two methods for the stochastic least cost design of water distribution systems. <i>Engineering Optimization</i> , 2006 , 38, 281-297 | 2 | 15 |
| 84 | Two new approaches for the stochastic least cost design of water distribution systems. <i>Water Science and Technology: Water Supply</i> , 2004 , 4, 355-363 | 1.4 | 14 |
| 83 | Developing a stochastic sewer model to support sewer design under water conservation measures. <i>Journal of Hydrology</i> , 2019 , 573, 908-917 | 6 | 13 |
| 82 | Resilience-based Performance Assessment of Water-recycling Schemes in Urban Water Systems. <i>Procedia Engineering</i> , 2014 , 89, 719-726 | | 13 |
| 81 | Artificial Intelligence Techniques for Flood Risk Management in Urban Environments. <i>Procedia Engineering</i> , 2014 , 70, 1505-1512 | | 13 |
| 80 | Using high performance techniques to accelerate demand-driven hydraulic solvers. <i>Journal of Hydroinformatics</i> , 2013 , 15, 38-54 | 2.6 | 12 |
| 79 | WaterMet²; a tool for integrated analysis of sustainability-based performance of urban water systems. <i>Drinking Water Engineering and Science</i> , 2014 , 7, 63-72 | 2 | 12 |
| 78 | Efficient Leak Localization in Water Distribution Systems Using Multistage Optimal Valve Operations and Smart Demand Metering. <i>Water Resources Research</i> , 2020 , 56, e2020WR028285 | 5.4 | 12 |
| 77 | Assessing Financial Loss due to Pluvial Flooding and the Efficacy of Risk-Reduction Measures in the Residential Property Sector. <i>Water Resources Management</i> , 2015 , 29, 161-179 | 3.7 | 11 |
| 76 | A Resilience-Based Methodology for Improved Water Resources Adaptation Planning under Deep Uncertainty with Real World Application. <i>Water Resources Management</i> , 2018 , 32, 2013-2031 | 3.7 | 11 |
| 75 | Online Modelling of Water Distribution System Using Data Assimilation. <i>Procedia Engineering</i> , 2014 , 70, 1261-1270 | | 11 |
| 74 | Burst Detection and Location in Water Distribution Systems 2011 , | | 11 |
| 73 | Automated detection of fault types in CCTV sewer surveys. <i>Journal of Hydroinformatics</i> , 2019 , 21, 153-163 | 3.6 | 11 |
| 72 | Non-deposition self-cleansing models for large sewer pipes. <i>Water Science and Technology</i> , 2020 , 81, 606-621 | 2.2 | 11 |

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| 71 | A Two-stage Calibration for Detection of Leakage Hotspots in a Real Water Distribution Network. <i>Procedia Engineering</i> , 2017 , 186, 168-176 | | 10 |
| 70 | Comparison of Info-gap and Robust Optimisation Methods for Integrated Water Resource Management under Severe Uncertainty. <i>Procedia Engineering</i> , 2015 , 119, 874-883 | | 10 |
| 69 | Mitigation Options for Future Water Scarcity: A Case Study in Santa Cruz Island (Galapagos Archipelago). <i>Water (Switzerland)</i> , 2017 , 9, 597 | 3 | 10 |
| 68 | Reducing life-cycle carbon footprints in the redesign of water distribution systems. <i>Journal of Water and Climate Change</i> , 2013 , 4, 176-192 | 2.3 | 10 |
| 67 | Using Smart Demand-Metering Data and Customer Characteristics to Investigate Influence of Weather on Water Consumption in the UK. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04019073 | 2.8 | 10 |
| 66 | Using Complex Network Analysis for Optimization of Water Distribution Networks. <i>Water Resources Research</i> , 2020 , 56, e2020WR027929 | 5.4 | 10 |
| 65 | Real-time foul sewer hydraulic modelling driven by water consumption data from water distribution systems. <i>Water Research</i> , 2021 , 188, 116544 | 12.5 | 10 |
| 64 | Multi-Objective Optimization of Resilient Design of the Multipurpose Reservoir in Conditions of Uncertain Climate Change. <i>Water (Switzerland)</i> , 2018 , 10, 1110 | 3 | 10 |
| 63 | Water quality modeling in sewer networks: Review and future research directions. <i>Water Research</i> , 2021 , 202, 117419 | 12.5 | 10 |
| 62 | A Response Methodology for Reducing Impacts of Failure Events in Water Distribution Networks. <i>Procedia Engineering</i> , 2017 , 186, 218-227 | | 9 |
| 61 | Predictive risk modelling of real-world wastewater network incidents. <i>Procedia Engineering</i> , 2015 , 119, 1288-1298 | | 9 |
| 60 | Optimal Water Supply System Management by Leakage Reduction and Energy Recovery. <i>Procedia Engineering</i> , 2014 , 89, 573-580 | | 9 |
| 59 | On the prediction of underground water pipe failures: zero inflation and pipe-specific effects. <i>Journal of Hydroinformatics</i> , 2012 , 14, 872-883 | 2.6 | 9 |
| 58 | Resilience-based performance metrics for water resources management under uncertainty. <i>Advances in Water Resources</i> , 2018 , 116, 18-28 | 4.7 | 8 |
| 57 | A fast approach for multiobjective design of water distribution networks under demand uncertainty. <i>Journal of Hydroinformatics</i> , 2011 , 13, 143-152 | 2.6 | 8 |
| 56 | 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 | 5.8 | 7 |
| 55 | Assessing the Impact of Climate Change on Future Water Demand using Weather Data. <i>Water Resources Management</i> , 2021 , 35, 1449-1462 | 3.7 | 7 |
| 54 | Real-Time Water Quality Modeling with Ensemble Kalman Filter for State and Parameter Estimation in Water Distribution Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019 , 145, 04019049 | 2.8 | 6 |

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| 53 | Impact of Self-Cleansing Criteria Choice on the Optimal Design of Sewer Networks in South America. <i>Water (Switzerland)</i> , 2019 , 11, 1148 | 3 | 6 |
| 52 | Use of Metamodels in Real-Time Operation of Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 89, 449-456 | | 6 |
| 51 | Locating Pipe Bursts in a District Metered Area Via Online Hydraulic Modelling. <i>Procedia Engineering</i> , 2015 , 119, 101-110 | | 6 |
| 50 | Development of a Leakage Target Setting Approach for South Korea Based on Economic Level of Leakage. <i>Procedia Engineering</i> , 2015 , 119, 120-129 | | 6 |
| 49 | Risk and Reliability Analysis of Open Reservoir Water Shortages Using Optimization. <i>Procedia Engineering</i> , 2014 , 89, 1478-1485 | | 6 |
| 48 | Methods for Preserving Duration-Intensity Correlation on Synthetically Generated Water-Demand Pulses. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 06015002 | 2.8 | 5 |
| 47 | Performance of LEMMO with artificial neural networks for water systems optimisation. <i>Urban Water Journal</i> , 2019 , 16, 21-32 | 2.3 | 5 |
| 46 | Preserving Duration-intensity Correlation on Synthetically Generated Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1463-1472 | | 5 |
| 45 | MCMC implementation for Bayesian hidden semi-Markov models with illustrative applications. <i>Statistics and Computing</i> , 2014 , 24, 739-752 | 1.8 | 5 |
| 44 | Hybrid XGboost model with various Bayesian hyperparameter optimization algorithms for flood hazard susceptibility modeling. <i>Geocarto International</i> , 1-20 | 2.7 | 5 |
| 43 | Short-Term Forecasting of Household Water Demand in the UK Using an Interpretable Machine Learning Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 04021004 | 2.8 | 5 |
| 42 | Risk-based sensor placement methods for burst/leak detection in water distribution systems. <i>Water Science and Technology: Water Supply</i> , 2017 , 17, 1663-1672 | 1.4 | 4 |
| 41 | Battle of Postdisaster Response and Restoration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020067 | 2.8 | 4 |
| 40 | The influence of the existing network layout on water distribution system redesign analysis. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1375-1389 | 2.6 | 4 |
| 39 | Improving the performance of an integrated urban wastewater system under future climate change and urbanisation scenarios. <i>Journal of Water and Climate Change</i> , 2013 , 4, 232-243 | 2.3 | 4 |
| 38 | Interactive decision support methodology for near real-time response to failure events in a water distribution network. <i>Journal of Hydroinformatics</i> , 2021 , 23, 483-499 | 2.6 | 4 |
| 37 | Developing a fuzzy logic-based risk assessment for groundwater contamination from well integrity failure during hydraulic fracturing. <i>Science of the Total Environment</i> , 2021 , 769, 145051 | 10.2 | 4 |
| 36 | Developing Decision Tree Models to Create a Predictive Blockage Likelihood Model for Real-World Wastewater Networks. <i>Procedia Engineering</i> , 2016 , 154, 1209-1216 | | 4 |

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| 35 | Let's Get Moving and Write Software: An Open Source Project for EPANET. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144, 01818001 | 2.8 | 4 |
| 34 | A Stochastic Model to Predict Flow, Nutrient and Temperature Changes in a Sewer under Water Conservation Scenarios. <i>Water (Switzerland)</i> , 2020 , 12, 1187 | 3 | 3 |
| 33 | Combining classifiers to detect faults in wastewater networks. <i>Water Science and Technology</i> , 2018 , 77, 2184-2189 | 2.2 | 3 |
| 32 | Correlation or not Correlation? This is the Question in Modelling Residential Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1455-1462 | | 3 |
| 31 | Advances in Water Mains Network Modelling for Improved Operations. <i>Procedia Engineering</i> , 2015 , 119, 593-602 | | 3 |
| 30 | Assessment of the Effectiveness of a Risk-reduction Measure on Pluvial Flooding and Economic Loss in Eindhoven, the Netherlands. <i>Procedia Engineering</i> , 2014 , 70, 1619-1628 | | 3 |
| 29 | Applications of discriminative flow pattern analysis using the CFPD method. <i>Water Science and Technology: Water Supply</i> , 2013 , 13, 906-913 | 1.4 | 3 |
| 28 | Towards the long term implementation of real time control of combined sewer systems: a review of performance and influencing factors.. <i>Water Science and Technology</i> , 2022 , 85, 1295-1320 | 2.2 | 3 |
| 27 | Quantifying the true potential of Real Time Control in urban drainage systems. <i>Urban Water Journal</i> , 2022 , 1-12.3 | | 3 |
| 26 | Decision support system for metabolism-based transition to urban water systems of tomorrow. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 855-863 | 1.4 | 3 |
| 25 | Short-term Forecasting of Turbidity in a UK Water Distribution System. <i>Procedia Engineering</i> , 2016 , 154, 1140-1147 | | 3 |
| 24 | Predicting impacts of water conservation with a stochastic sewer model. <i>Water Science and Technology</i> , 2019 , 80, 2148-2157 | 2.2 | 3 |
| 23 | A Committee Evolutionary Neural Network for the Prediction of Combined Sewer Overflows. <i>Water Resources Management</i> , 2021 , 35, 1273-1289 | 3.7 | 3 |
| 22 | Novel Bayesian Additive Regression Tree Methodology for Flood Susceptibility Modeling. <i>Water Resources Management</i> , 2021 , 35, 4621 | 3.7 | 3 |
| 21 | A review of serious games for urban water management decisions: current gaps and future research directions.. <i>Water Research</i> , 2022 , 215, 118217 | 12.5 | 3 |
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