

Zoran Kapelan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178
papers

5,911
citations

39
h-index

71
g-index

190
ext. papers

7,086
ext. citations

4
avg, IF

6.25
L-index

#	Paper	IF	Citations
178	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
177	Life cycle sustainability assessment framework for water sector resource recovery solutions: Strengths and weaknesses. <i>Resources, Conservation and Recycling</i> , 2022 , 180, 106151	11.9	0
176	Near real-time detection of blockages in the proximity of combined sewer overflows using evolutionary ANNs and statistical process control. <i>Journal of Hydroinformatics</i> , 2022 , 24, 259-273	2.6	1
175	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
174	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
173	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
172	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
171	A novel machine learning application: Water quality resilience prediction Model. <i>Science of the Total Environment</i> , 2021 , 768, 144459	10.2	16
170	Hydroinformatics education [the Water Informatics in Science and Engineering (WISE) Centre for Doctoral Training. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 2721-2738	5.5	1
169	Automated Household Water End-Use Disaggregation through Rule-Based Methodology. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021 , 147, 04021024	2.8	1
168	Predicting non-deposition sediment transport in sewer pipes using Random forest. <i>Water Research</i> , 2021 , 189, 116639	12.5	18
167	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
166	A Committee Evolutionary Neural Network for the Prediction of Combined Sewer Overflows. <i>Water Resources Management</i> , 2021 , 35, 1273-1289	3.7	3
165	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
164	Life cycle analysis approach to comparing environmental impacts of alternative materials used in the construction of small wastewater treatment plants. <i>Environmental Advances</i> , 2021 , 4, 100065	3.5	0
163	Design of a monitoring network: from macro to micro design 2021 , 155-202		
162	Novel Bayesian Additive Regression Tree Methodology for Flood Susceptibility Modeling. <i>Water Resources Management</i> , 2021 , 35, 4621	3.7	3

161	Water quality modeling in sewer networks: Review and future research directions. <i>Water Research</i> , 2021 , 202, 117419	12.5	10
160	Foul sewer model development using geotagged information and smart water meter data. <i>Water Research</i> , 2021 , 204, 117594	12.5	2
159	From site-focused intervention towards landscape-scale surface water management using Synthetic Stream Networks and Rapid Scenario Screening. <i>Blue-Green Systems</i> , 2021 , 3, 13-30	5.2	
158	An ensemble stacked model with bias correction for improved water demand forecasting. <i>Urban Water Journal</i> , 2020 , 17, 212-223	2.3	18
157	Battle of Postdisaster Response and Restoration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020 , 146, 04020067	2.8	4
156	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
155	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
154	Assessing the global resilience of water quality sensor placement strategies within water distribution systems. <i>Water Research</i> , 2020 , 172, 115527	12.5	20
153	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
152	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
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	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
149	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
148	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
147	Using Complex Network Analysis for Optimization of Water Distribution Networks. <i>Water Resources Research</i> , 2020 , 56, e2020WR027929	5.4	10
146	Non-deposition self-cleansing models for large sewer pipes. <i>Water Science and Technology</i> , 2020 , 81, 606-621	2.2	11
145	Drinking Water Temperature around the Globe: Understanding, Policies, Challenges and Opportunities. <i>Water (Switzerland)</i> , 2020 , 12, 1049	3	30
144	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

143	Developing a stochastic sewer model to support sewer design under water conservation measures. <i>Journal of Hydrology</i> , 2019 , 573, 908-917	6	13
142	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
141	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
140	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
139	Performance of LEMMO with artificial neural networks for water systems optimisation. <i>Urban Water Journal</i> , 2019 , 16, 21-32	2.3	5
138	A statistical analysis on the effect of preceding dry weather on sewer blockages in South Wales. <i>Water Science and Technology</i> , 2019 , 80, 2381-2391	2.2	2
137	Predicting impacts of water conservation with a stochastic sewer model. <i>Water Science and Technology</i> , 2019 , 80, 2148-2157	2.2	3
136	Automated detection of fault types in CCTV sewer surveys. <i>Journal of Hydroinformatics</i> , 2019 , 21, 153-163	6	11
135	Introductory overview: Optimization using evolutionary algorithms and other metaheuristics. <i>Environmental Modelling and Software</i> , 2019 , 114, 195-213	5.2	83
134	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
133	Resilience-based performance metrics for water resources management under uncertainty. <i>Advances in Water Resources</i> , 2018 , 116, 18-28	4.7	8
132	Combining classifiers to detect faults in wastewater networks. <i>Water Science and Technology</i> , 2018 , 77, 2184-2189	2.2	3
131	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
130	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
129	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
128	Automated detection of faults in sewers using CCTV image sequences. <i>Automation in Construction</i> , 2018 , 95, 64-71	9.6	24
127	Let's Get Moving and Write Software: An Open Source Project for. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018 , 144,	2.8	1
126	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

125	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
124	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
123	Metabolism-modelling approaches to long-term sustainability assessment of urban water services. <i>Urban Water Journal</i> , 2017 , 14, 11-22	2.3	27
122	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
121	A Two-stage Calibration for Detection of Leakage Hotspots in a Real Water Distribution Network. <i>Procedia Engineering</i> , 2017 , 186, 168-176		10
120	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
119	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
118	A Response Methodology for Reducing Impacts of Failure Events in Water Distribution Networks. <i>Procedia Engineering</i> , 2017 , 186, 218-227		9
117	Network Sectorisation Through Aggregation of Strong Connected Components. <i>Procedia Engineering</i> , 2017 , 186, 244-251		
116	Robust optimization of water infrastructure planning under deep uncertainty using metamodels. <i>Environmental Modelling and Software</i> , 2017 , 93, 92-105	5.2	59
115	A Probabilistic Short-Term Water Demand Forecasting Model Based on the Markov Chain. <i>Water (Switzerland)</i> , 2017 , 9, 507	3	27
114	Water Demand Assessment of the Upper Semi-arid Sub-catchment of a Mediterranean Basin. <i>Energy Procedia</i> , 2017 , 119, 870-882	2.3	2
113	Short-term forecasting of turbidity in trunk main networks. <i>Water Research</i> , 2017 , 124, 67-76	12.5	15
112	Mitigation Options for Future Water Scarcity: A Case Study in Santa Cruz Island (Galapagos Archipelago). <i>Water (Switzerland)</i> , 2017 , 9, 597	3	10
111	Data-Driven Study of Discolouration Material Mobilisation in Trunk Mains. <i>Water (Switzerland)</i> , 2017 , 9, 811	3	0
110	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
109	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
108	Parameterizing residential water demand pulse models through smart meter readings. <i>Environmental Modelling and Software</i> , 2016 , 80, 33-40	5.2	26

107	Leak Detection and Localization through Demand Components Calibration. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04015057	2.8	36
106	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
105	Metabolism-based modelling for performance assessment of a water supply system: a case study of Reggio Emilia, Italy. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 1221-1230	1.4	2
104	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
103	Decision support system for the long-term city metabolism planning problem. <i>Water Science and Technology: Water Supply</i> , 2016 , 16, 542-550	1.4	2
102	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
101	A Graph-based Analytical Technique for the Improvement of Water Network Model Calibration. <i>Procedia Engineering</i> , 2016 , 154, 27-35		2
100	The Use of Telemetry Data for the Identification of Issues at Combined Sewer Overflows. <i>Procedia Engineering</i> , 2016 , 154, 1201-1208		2
99	Automated Detection of Faults in Wastewater Pipes from CCTV Footage by Using Random Forests. <i>Procedia Engineering</i> , 2016 , 154, 36-41		18
98	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
97	Short-term Forecasting of Turbidity in a UK Water Distribution System. <i>Procedia Engineering</i> , 2016 , 154, 1140-1147		3
96	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
95	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
94	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
93	Modelling metabolism based performance of an urban water system using WaterMet2. <i>Resources, Conservation and Recycling</i> , 2015 , 99, 84-99	11.9	39
92	Real-time Burst Detection in Water Distribution Systems Using a Bayesian Demand Forecasting Methodology. <i>Procedia Engineering</i> , 2015 , 119, 13-18		21
91	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
90	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

89	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
88	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
87	Locating Pipe Bursts in a District Metered Area Via Online Hydraulic Modelling. <i>Procedia Engineering</i> , 2015 , 119, 101-110		6
86	Correlation or not Correlation? This is the Question in Modelling Residential Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1455-1462		3
85	Preserving Duration-intensity Correlation on Synthetically Generated Water Demand Pulses. <i>Procedia Engineering</i> , 2015 , 119, 1463-1472		5
84	Predictive risk modelling of real-world wastewater network incidents. <i>Procedia Engineering</i> , 2015 , 119, 1288-1298		9
83	Advances in Water Mains Network Modelling for Improved Operations. <i>Procedia Engineering</i> , 2015 , 119, 593-602		3
82	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
81	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
80	Forecasting Domestic Water Consumption from Smart Meter Readings Using Statistical Methods and Artificial Neural Networks. <i>Procedia Engineering</i> , 2015 , 119, 1419-1428		29
79	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
78	Real-time Data Assimilation in Urban Rainfall-runoff Models. <i>Procedia Engineering</i> , 2014 , 70, 843-852		15
77	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
76	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
75	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	39 ^I
74	Online Modelling of Water Distribution System Using Data Assimilation. <i>Procedia Engineering</i> , 2014 , 70, 1261-1270		11
73	Integrated Optimal Cost and Pressure Management for Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 70, 1659-1668		16
72	Urban Water System Metabolism Assessment Using WaterMet2 Model. <i>Procedia Engineering</i> , 2014 , 70, 113-122		15

71	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
70	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
69	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
68	Use of Metamodels in Real-Time Operation of Water Distribution Systems. <i>Procedia Engineering</i> , 2014 , 89, 449-456		6
67	Robust Staged Development of Water Supply Systems. <i>Procedia Engineering</i> , 2014 , 89, 864-869		
66	Resilience-based Performance Assessment of Water-recycling Schemes in Urban Water Systems. <i>Procedia Engineering</i> , 2014 , 89, 719-726		13
65	Risk and Reliability Analysis of Open Reservoir Water Shortages Using Optimization. <i>Procedia Engineering</i> , 2014 , 89, 1478-1485		6
64	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
63	Using Smart Meters for Household Water Consumption Feedback: Knowns and Unknowns. <i>Procedia Engineering</i> , 2014 , 89, 990-997		36
62	Multi-objective rehabilitation of urban drainage systems under uncertainties. <i>Journal of Hydroinformatics</i> , 2014 , 16, 1044-1061	2.6	40
61	Smart Meters, Smart Water, Smart Societies: The iWIDGET Project. <i>Procedia Engineering</i> , 2014 , 89, 1105-1112		23
60	Optimal Water Supply System Management by Leakage Reduction and Energy Recovery. <i>Procedia Engineering</i> , 2014 , 89, 573-580		9
59	Adaptive Flood Risk Management Under Climate Change Uncertainty Using Real Options and Optimization. <i>Risk Analysis</i> , 2014 , 34, 75-92	3.9	103
58	Online Burst Detection in a Water Distribution System Using the Kalman Filter and Hydraulic Modelling. <i>Procedia Engineering</i> , 2014 , 89, 418-427		16
57	Hybrid metaheuristics for multi-objective design of water distribution systems. <i>Journal of Hydroinformatics</i> , 2014 , 16, 165-177	2.6	15
56	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
55	Artificial Intelligence Techniques for Flood Risk Management in Urban Environments. <i>Procedia Engineering</i> , 2014 , 70, 1505-1512		13
54	Using a Systematic, Multi-criteria Decision Support Framework to Evaluate Sustainable Drainage Designs. <i>Procedia Engineering</i> , 2014 , 70, 343-352		19

53	MCMC implementation for Bayesian hidden semi-Markov models with illustrative applications. <i>Statistics and Computing</i> , 2014 , 24, 739-752	1.8	5
52	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
51	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
50	Using Information-Gap Decision Theory for Water Resources Planning Under Severe Uncertainty. <i>Water Resources Management</i> , 2013 , 27, 1149-1172	3.7	67
49	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
48	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
47	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
46	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
45	Using high performance techniques to accelerate demand-driven hydraulic solvers. <i>Journal of Hydroinformatics</i> , 2013 , 15, 38-54	2.6	12
44	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
43	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
42	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
41	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
40	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
39	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
38	Battle of the Water Calibration Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012 , 138, 523-532	2.8	95
37	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
36	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

35	Fuzzy probabilistic design of water distribution networks. <i>Water Resources Research</i> , 2011 , 47,	5.4	56
34	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
33	Real Options in flood risk management decision making. <i>Journal of Flood Risk Management</i> , 2011 , 4, 339-349	3.49	78
32	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
31	Improved real-time data anomaly detection using context classification. <i>Journal of Hydroinformatics</i> , 2011 , 13, 307-323	2.6	22
30	Burst Detection and Location in Water Distribution Systems 2011 ,		11
29	Pipe burst diagnostics using evidence theory. <i>Journal of Hydroinformatics</i> , 2011 , 13, 596-608	2.6	21
28	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
27	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
26	A review of methods for leakage management in pipe networks. <i>Urban Water Journal</i> , 2010 , 7, 25-45	2.3	382
25	An effective multi-objective approach to prioritization of sewer pipe inspection. <i>Water Science and Technology</i> , 2009 , 60, 841-50	2.2	21
24	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
23	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
22	Quo vadis water distribution model calibration?. <i>Urban Water Journal</i> , 2009 , 6, 3-22	2.3	132
21	Development of pipe deterioration models for water distribution systems using EPR. <i>Journal of Hydroinformatics</i> , 2008 , 10, 113-126	2.6	127
20	Algorithm for Automatic Detection of Topological Changes in Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 435-446	1.8	58
19	Pressure-Driven Demand and Leakage Simulation for Water Distribution Networks. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 626-635	1.8	237
18	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

17	Extended Period Simulation Analysis Considering Valve Shutdowns. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008 , 134, 527-537	2.8	48
16	Probabilistic prediction of urban water consumption using the SCEM-UA algorithm. <i>Urban Water Journal</i> , 2008 , 5, 125-132	2.3	73
15	Calibration of Water Distribution Hydraulic Models Using a Bayesian-Type Procedure. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 927-936	1.8	65
14	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
13	Comparison of two methods for the stochastic least cost design of water distribution systems. <i>Engineering Optimization</i> , 2006 , 38, 281-297	2	15
12	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
11	Optimal Sampling Design Methodologies for Water Distribution Model Calibration. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 190-200	1.8	56
10	Multiobjective design of water distribution systems under uncertainty. <i>Water Resources Research</i> , 2005 , 41,	5.4	137
9	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
8	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
7	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
6	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
5	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
4	Hybrid XGboost model with various Bayesian hyperparameter optimization algorithms for flood hazard susceptibility modeling. <i>Geocarto International</i> , 1-20	2.7	5
3	Modelling in Water Distribution Systems 103-124		
2	Quantifying the true potential of Real Time Control in urban drainage systems. <i>Urban Water Journal</i> , 1-12.	2.3	3
1	Sediment transport prediction in sewer pipes during flushing operation. <i>Urban Water Journal</i> , 1-14	2.3	1