

Avi A Ostfeld

List of Publications by Year in descending order

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251
papers

7,265
citations

66343

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4501
citing authors

#	ARTICLE	IF	CITATIONS
1	Convex Heuristics for Optimal Placement and Operation of Valves and Chlorine Boosters in Water Networks. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	6
2	A Graph Theory-Based Layout Algorithm for PRVs Placement and Setpoint Determination in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	5
3	Optimizing the Control of Decentralized Rainwater Harvesting Systems for Reducing Urban Drainage Flows. Water (Switzerland), 2022, 14, 571.	2.7	7
4	A Hybrid Data-Driven-Agent-Based Modelling Framework for Water Distribution Systems Contamination Response during COVID-19. Water (Switzerland), 2022, 14, 1088.	2.7	11
5	Using Hydraulic Transients for Biofilm Detachment in Water Distribution Systems: Approximated Model. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	4
6	Optimizing Water Quality Treatment Levels for Water Distribution Systems under Mixing Uncertainty at Junctions. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	8
7	Examining the Longitudinal Dispersion of Solutes Inside Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	7
8	Hydraulic Ram Pump Integration into Water Distribution Systems for Energy Recovery Application. Water (Switzerland), 2022, 14, 21.	2.7	4
9	Effects of the COVID-19 Pandemic on Water Utility Operations and Vulnerability. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	14
10	Making waves: Applying systems biology principles in water distribution systems engineering. Water Research, 2022, 219, 118527.	11.3	1
11	Contaminant Fate and Transport Modeling in Distribution Systems: EPANET-C. Water (Switzerland), 2022, 14, 1665.	2.7	4
12	Hydraulic Model Database for Applied Water Distribution Systems Research. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	6
13	Robust Multi-Objective Optimization of Water Distribution Systems. , 2022, , .		2
14	Optimal Control of Chlorine Concentration in Water Distribution System. , 2022, , .		2
15	Utilization of Network Subsystems for Designing a Level-1 Redundant Water Distribution Network. , 2022, , .		0
16	Real-Time Monitoring and Controlling of Water Quality in Water Distribution Networks Based on Flow Cytometry and Fluorescence Spectroscopy. , 2022, , .		2
17	Appraisal of the Position of Water Distribution Systems as a PFAS Exposure Pathway. , 2022, , .		0
18	EPANET-Câ€™An Umbrella Simulation Tool for Water Distribution System Quality Analysis. , 2022, , .		0

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19	Hydraulic Ram Pump Application in Urban Water Distribution Systems. , 2022, , .		0
20	Source Treatment Level Optimization in Water Distribution Networks Considering Mixing Uncertainty at Cross Junctions: A Robust Counterpart Approach. , 2022, , .		0
21	A Socio-Technological Framework for Optimizing Water Utility Strategies and Resilience to Pandemic Changes and Contamination Events. , 2022, , .		0
22	Establishing an Experimental and Simulation Interface for Online Monitoring and Modeling of Bacterial Growth in Water Distribution Systems. , 2022, , .		2
23	An Agent-Based Model for Contamination Response in Water Distribution Systems during the COVID-19 Pandemic. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	12
24	Robust Multi-Objective Design Optimization of Water Distribution System under Uncertainty. Water (Switzerland), 2022, 14, 2199.	2.7	6
25	Analytical Optimization Approach for Simultaneous Design and Operation of Water Distributionâ€œSystems Optimization. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	3
26	Resilience Assessment of Water Quality Sensor Designs under Cyber-Physical Attacks. Water (Switzerland), 2021, 13, 647.	2.7	17
27	Water Leak Localization Using High-Resolution Pressure Sensors. Water (Switzerland), 2021, 13, 591.	2.7	19
28	Modeling Bacterial Regrowth and Trihalomethane Formation in Water Distribution Systems. Water (Switzerland), 2021, 13, 463.	2.7	19
29	Modeling the Formation and Propagation of 2,4,6-trichloroanisole, a Dominant Taste and Odor Compound, in Water Distribution Systems. Water (Switzerland), 2021, 13, 638.	2.7	4
30	An Analytical Model for the Decontamination of Water Distribution Systems Using Slugâ€œFeed Method of Disinfection. Water Resources Research, 2021, 57, e2020WR028277.	4.2	3
31	Relax-tighten-round algorithm for optimal placement and control of valves and chlorine boosters in water networks. European Journal of Operational Research, 2021, 295, 690-698.	5.7	9
32	A Head Formulation for the Steady-State Analysis of Water Distribution Systems Using an Explicit and Exact Expression of the Colebrookâ€œWhite Equation. Water (Switzerland), 2021, 13, 1163.	2.7	8
33	DMA Segmentation and Multiobjective Optimization for Trading Off Water Age, Excess Pressure, and Pump Operational Cost in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	12
34	Water and Wastewater Systems and Utilities: Challenges and Opportunities during the COVID-19 Pandemic. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	31
35	Considering COVID-19 Pandemic Reaction and Response Analogies in an Agent-Based Modeling Framework for Water Distribution System Contamination Response. , 2021, , .		0
36	Multi-Objective Operation-Leakage Optimization and Calibration of Water Distribution Systems. Water (Switzerland), 2021, 13, 1606.	2.7	8

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37	Using Graph Theory for Determining Grab Sampling Location in Real Time upon a Contamination Detection in Water Distribution System. , 2021, , .		0
38	Optimal Wellfield Operation under Water Quality Constraints. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	1
39	Water quality modeling in sewer networks: Review and future research directions. Water Research, 2021, 202, 117419.	11.3	35
40	Model-based investigation of the formation, transmission, and health risk of perfluorooctanoic acid, a member of PFASs group, in drinking water distribution systems. Water Research, 2021, 204, 117626.	11.3	11
41	Modeling the Response of Nonchlorinated, Chlorinated, and Chloraminated Water Distribution Systems toward Arsenic Contamination. Journal of Environmental Engineering, ASCE, 2021, 147, .	1.4	8
42	Incorporation of COVID-19-Inspired Behaviour into Agent-Based Modelling for Water Distribution Systemsâ€™ Contamination Responses. Water (Switzerland), 2021, 13, 2863.	2.7	6
43	Analytical Solutions to Conservative and Non-Conservative Water Quality Constituents in Water Distribution System Storage Tanks. Water (Switzerland), 2021, 13, 3502.	2.7	0
44	Dynamic Clustering for Water Distribution System Water Quality Management. , 2020, , .		4
45	A Two-Stage LP-NLP Methodology for the Least-Cost Design and Operation of Water Distribution Systems. Water (Switzerland), 2020, 12, 1364.	2.7	7
46	A Review of Cybersecurity Incidents in the Water Sector. Journal of Environmental Engineering, ASCE, 2020, 146, .	1.4	98
47	Active Contamination Detection in Water-Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	12
48	A framework for real-time disinfection plan assembling for a contamination event in water distribution systems. Water Research, 2020, 174, 115625.	11.3	16
49	Simultaneous Sensor Placement and Pressure Reducing Valve Localization for Pressure Control of Water Distribution Systems. Water (Switzerland), 2019, 11, 1352.	2.7	12
50	Rehabilitation of Water Distribution Systems following a Cadmium Contamination Intrusionâ€™ A Solution Based on Water Quality and Water Distribution Systems Modeling. , 2019, , .		1
51	Grab Sampling Placement Modeling for Real Time Contamination Event Detection in Water Networks. , 2019, , .		1
52	Bayesian Localization of Water Distribution System Contamination Intrusion Events Using Inline Mobile Sensor Data. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	17
53	Protecting Water Infrastructure From Cyber and Physical Threats: Using Multimodal Data Fusion and Adaptive Deep Learning to Monitor Critical Systems. IEEE Signal Processing Magazine, 2019, 36, 36-48.	5.6	50
54	Clustering for Real-Time Response to Water Distribution System Contamination Event Intrusions. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	8

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55	Clustering for Analysis of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	14
56	Stochastic Scenario Evaluation in Evolutionary Algorithms Used for Robust Scenario-Based Optimization. Water Resources Research, 2018, 54, 2813-2833.	4.2	3
57	Industry Effluent Disposal into Rivers: Coupled Multiobjective-Analytical Optimization Model. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 06017008.	2.6	2
58	Reducing Combined Sewer Overflows through Model Predictive Control and Capital Investment. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 04017091.	2.6	9
59	Prediction of erosional rates for cohesive sediments in annular flume experiments using artificial neural networks. H2Open Journal, 2018, 1, 99-111.	1.7	0
60	Analyzing multi-variate water quality signals for water quality monitoring station placement in water distribution systems. Journal of Hydroinformatics, 2018, 20, 1323-1342.	2.4	5
61	A Time Varying Minimum Volume Ellipsoid (MVE) Method for Water Distribution Systems Event Detection. , 2018, , .		0
62	Battle of the Attack Detection Algorithms: Disclosing Cyber Attacks on Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	127
63	Multiobjective Optimization of Inline Mobile and Fixed Wireless Sensor Networks under Conditions of Demand Uncertainty. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	17
64	Decomposing Water Distribution System into District Metered Areas for Leakage and Water Age Reduction. , 2018, , .		0
65	Characterizing Cyber-Physical Attacks on Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	130
66	Scaled Multiobjective Optimization of an Intensive Early Warning System for Water Distribution System Security. Journal of Hydraulic Engineering, 2017, 143, 04017025.	1.5	6
67	Early Warning System Design for Contamination Event Detection Incorporating Surrogate Water Quality Indicators in Water Distribution Systems. , 2017, , .		0
68	Importance Sampling of Water Distribution System Contamination Events Based on Nodal Neighborhood Populations. , 2017, , .		0
69	Water Age Clustering for Water Distribution Systems. Procedia Engineering, 2017, 186, 470-474.	1.2	2
70	Inclusion of Variable Disinfection Levels in Slug Feed Optimal Disinfection of Water Distribution Systems. , 2017, , .		0
71	Modelling of resuspension due to fish activity: Mathematical modeling and annular flume experiments. International Journal of Sediment Research, 2017, 32, 421-431.	3.5	2
72	Battle of Water Networks DMAs: Multistage Design Approach. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	2.6	20

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73	Incorporating Operational Uncertainty in Early Warning System Design Optimization for Water Distribution System Security. <i>Procedia Engineering</i> , 2017, 186, 160-167.	1.2	10
74	Inline Mobile Sensors for Contaminant Early Warning Enhancement in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	2.6	11
75	A versatile and low-cost open source pipetting robot for automation of toxicological and ecotoxicological bioassays. <i>PLoS ONE</i> , 2017, 12, e0179636.	2.5	23
76	Fish Activity Impact on Sediment Erosion Resuspension: Mathematical Modeling and Annular Flume Verification Experiments. , 2017, , .		0
77	Optimal closure of system actuators for transient control: an analytical approach. <i>Journal of Hydroinformatics</i> , 2016, 18, 393-408.	2.4	7
78	Mobile sensor networks for optimal leak and backflow detection and localization in municipal water networks. <i>Environmental Modelling and Software</i> , 2016, 80, 306-321.	4.5	43
79	Least-Cost Robust Design Optimization of Water Distribution Systems under Multiple Loading. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	21
80	Slug Feed Optimal Disinfection of Water Distribution Networks Following a Contamination Event. , 2016, , .		0
81	A Graph Theory Modelling Approach for the Optimal Operation of Water Distribution Systems under Water Quality Constraints. , 2016, , .		0
82	A sensitive biomarker for the detection of aquatic contamination based on behavioral assays using zebrafish larvae. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 271-280.	6.0	34
83	Optimal Pump Scheduling in Water Distribution Systems Using Graph Theory under Hydraulic and Chlorine Constraints. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	23
84	Limited Multistage Stochastic Programming for Water Distribution Systems Optimal Operation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	6
85	New formulation and optimization methods for water sensor placement. <i>Environmental Modelling and Software</i> , 2016, 76, 128-136.	4.5	44
86	Spatial event classification using simulated water quality data. <i>Environmental Modelling and Software</i> , 2016, 77, 71-80.	4.5	18
87	Graph Theory Modeling Approach for Optimal Operation of Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	1.5	10
88	Successive Linear Programming Approach Applied to BBLAWN. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	3
89	Inclusion of Mobile Sensors in Water Distribution System Monitoring Operations. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	20
90	Comparison of two multivariate classification models for contamination event detection in water quality time series. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2015, 64, 558-566.	1.4	7

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91	Water Quality Event Detection in Water Networks through Multiple Sensors Data. , 2015, , .		0
92	A Multi-Objective Approach for Minimizing Water Network Disinfection Time and Disinfectant Quantity. Procedia Engineering, 2015, 119, 347-351.	1.2	1
93	Utilizing Discrete Choice Models for Fusing Alarms from Multiple Water Quality Indicators. , 2015, , .		0
94	Piecewise mixed integer programming for optimal sizing of surge control devices in water distribution systems. Water Resources Research, 2015, 51, 4391-4408.	4.2	6
95	The future of water resources systems analysis: Toward a scientific framework for sustainable water management. Water Resources Research, 2015, 51, 6110-6124.	4.2	214
96	Reducing System Wide Event Detection False Positive Alerts by Using Reversed Hydraulic Simulation. , 2015, , .		0
97	Water Distribution Networks. Studies in Computational Intelligence, 2015, , 101-124.	0.9	6
98	Optimal Sensors Location Using Contamination Detailed Chemistry Reactions. , 2015, , .		0
99	Modelling Heavy Metal Contamination Events in Water Distribution Systems. Procedia Engineering, 2015, 119, 328-336.	1.2	7
100	Mobile Sensors for Water Quality Management in Water Distribution Systems. , 2015, , .		2
101	Optimal sensor placement for detecting organophosphate intrusions into water distribution systems. Water Research, 2015, 73, 193-203.	11.3	37
102	Network hydraulics inclusion in water quality event detection using multiple sensor stations data. Water Research, 2015, 80, 47-58.	11.3	19
103	An integrated logit model for contamination event detection in water distribution systems. Water Research, 2015, 75, 210-223.	11.3	34
104	Evolutionary algorithm enhancement for model predictive control and real-time decision support. Environmental Modelling and Software, 2015, 69, 330-341.	4.5	31
105	Coupled Data-Driven Evolutionary Algorithm for Toxic Cyanobacteria (Blue-Green Algae) Forecasting in Lake Kinneret. Journal of Water Resources Planning and Management - ASCE, 2015, 141, 04014069.	2.6	7
106	Bi-level Optimization of Closed Surge Tanks Placement and Sizing in Water Distribution System Subjected to Transient Events. Procedia Engineering, 2014, 89, 1329-1335.	1.2	8
107	Smart Grid for Optimal Provider-consumer Collaboration. Procedia Engineering, 2014, 89, 1292-1297.	1.2	0
108	Sensing and Cyberinfrastructure for Smarter Water Management: The Promise and Challenge of Ubiquity. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	25

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109	Uncertainty and Risk Inclusions in Water Distribution Systems Management: Review and Challenges. , 2014, , .		2
110	Optimal Water System Operation Using Graph Theory Algorithms. Procedia Engineering, 2014, 89, 502-508.	1.2	5
111	Optimal Water System Operation Using Successive Shortest Path Graph Algorithm. , 2014, , .		0
112	Distributed estimation and control of water distribution networks by logical consensus. , 2014, , .		3
113	Integrated hydraulic and organophosphate pesticide injection simulations for enhancing event detection in water distribution systems. Water Research, 2014, 63, 271-284.	11.3	31
114	Optimal Disinfection of Water Distribution Networks Following a Contamination Event. Procedia Engineering, 2014, 89, 168-172.	1.2	4
115	Comparison of Multivariate Classification Methods for Contamination Event Detection in Water Distribution Systems. Procedia Engineering, 2014, 70, 1271-1279.	1.2	3
116	A coupled classification “ Evolutionary optimization model for contamination event detection in water distribution systems. Water Research, 2014, 51, 234-245.	11.3	45
117	Optimal design and operation of booster chlorination stations layout in water distribution systems. Water Research, 2014, 58, 209-220.	11.3	60
118	Multiobjective Optimization for Least Cost Design and Resiliency of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	27
119	Battle of the Water Networks II. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	2.6	92
120	Leakage Calibration of Water Distribution Systems. , 2014, , .		2
121	Discrete Pump Scheduling and Leakage Control Using Linear Programming for Optimal Operation of Water Distribution Systems. Journal of Hydraulic Engineering, 2014, 140, .	1.5	26
122	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions. Environmental Modelling and Software, 2014, 62, 271-299.	4.5	477
123	Practical Approach to Water System Optimal Operation. Procedia Engineering, 2014, 70, 1362-1368.	1.2	1
124	Minimum volume ellipsoid classification model for contamination event detection in water distribution systems. Environmental Modelling and Software, 2014, 57, 1-12.	4.5	34
125	Modeling and Optimizing Hydraulic Transients in Water Distribution Systems. Procedia Engineering, 2014, 70, 1558-1565.	1.2	9
126	A hybrid evolutionary data driven model for river water quality early warning. Journal of Environmental Management, 2014, 143, 8-16.	7.8	45

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127	Multiobjective Water Distribution Systems Control of Pumping Cost, Water Quality, and Storage-Reliability Constraints. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 184-193.	2.6	43
128	Optimal Sensor Placement in Water Distribution Systems for Injection of Chlorpyrifos. , 2014, , .		9
129	Battle of Background Leakage Assessment for Water Networks Using Successive Linear Programming. Procedia Engineering, 2014, 89, 45-52.	1.2	10
130	Optimization of Surge Protection Devices in Water Distribution Systems. , 2014, , .		1
131	Operation of remote mobile sensors for security of drinking water distribution systems. Water Research, 2013, 47, 4217-4226.	11.3	48
132	Robust optimization for water distribution systems least cost design. Water Resources Research, 2013, 49, 6795-6809.	4.2	41
133	Explicit Demand Uncertainty Formulation for Robust Design of Water Distribution Systems. , 2013, , .		2
134	Multi-objective evolutionary optimization for greywater reuse in municipal sewer systems. Water Research, 2013, 47, 5911-5920.	11.3	42
135	Multi-objective optimization of water quality, pumps operation, and storage sizing of water distribution systems. Journal of Environmental Management, 2013, 115, 189-197.	7.8	100
136	A dynamic thresholds scheme for contaminant event detection in water distribution systems. Water Research, 2013, 47, 1899-1908.	11.3	89
137	Limited multi-stage stochastic programming for managing water supply systems. Environmental Modelling and Software, 2013, 41, 53-64.	4.5	48
138	Iterative Linearization Scheme for Convex Nonlinear Equations: Application to Optimal Operation of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 299-312.	2.6	38
139	Implicit Mean-Variance Approach for Optimal Management of a Water Supply System under Uncertainty. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 634-643.	2.6	6
140	Least-cost design of water distribution systems under demand uncertainty: the robust counterpart approach. Journal of Hydroinformatics, 2013, 15, 737-750.	2.4	13
141	A deterministic approach for optimization of booster disinfection placement and operation for a water distribution system in Beijing. Journal of Hydroinformatics, 2013, 15, 1042-1058.	2.4	12
142	Enhancing Water Distribution System Security through Water Quality Mobile Sensor Operation. , 2013, , .		4
143	Bayesian Networks for Source Intrusion Detection. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 426-432.	2.6	36
144	Application of Graph Theory to Sensor Placement in Water Distribution Systems. , 2013, , .		12

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145	Iterative LP water system optimal operation including headloss, leakage, total head and source cost. Journal of Hydroinformatics, 2013, 15, 1203-1223.	2.4	7
146	Water Distribution Systems Complex Contamination Simulations for Event Detection Model Calibration and Verification. , 2013, , .		0
147	Box-Constrained Optimization Methodology and Its Application for a Water Supply System Model. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 651-659.	2.6	6
148	Optimal Multi-Year Management of a Regional Water Supply System under Uncertainty: The Affine Adjustable Robust Counterpart (AARC) Approach. , 2012, , .		1
149	Extreme Impact Contamination Events Sampling for Real-Sized Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 581-585.	2.6	17
150	Some observations on biofouling prediction in pipelines using model trees and artificial neural networks versus logistic regression. Urban Water Journal, 2012, 9, 11-20.	2.1	1
151	Computationally Implicit Hydraulics for Real-Time Combined Sewer Overflow Modeling and Decision Support. , 2012, , .		0
152	Climate change impacts on river basin and freshwater ecosystems: some observations on challenges and emerging solutions. Journal of Water and Climate Change, 2012, 3, 171-184.	2.9	14
153	Optimal Mobile Self-Powered Sensor Operation for Water Distribution Systems Water Quality Enhancements. , 2012, , .		4
154	A Successive Linear Programming Scheme for Optimal Operation of Water Distribution Networks. , 2012, , .		1
155	Water-Distribution Systems Simplifications through Clustering. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 218-229.	2.6	57
156	Water distribution systems event detection. , 2012, , .		5
157	Event Detection in Water Distribution Systems from Multivariate Water Quality Time Series. Environmental Science & Technology, 2012, 46, 8212-8219.	10.0	122
158	Seasonal multi-year optimal management of quantities and salinities in regional water supply systems. Environmental Modelling and Software, 2012, 37, 55-67.	4.5	7
159	Optimal reliable design and operation of water distribution systems through decomposition. Water Resources Research, 2012, 48, .	4.2	20
160	Battle of the Water Calibration Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 523-532.	2.6	134
161	A Coupled Decision Trees Bayesian Approach for Water Distribution Systems Event Detection. , 2012, , .		1
162	Chemical Water Stability in Optimal Operation of Water Distribution Systems with Blended Desalinated Water. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 531-541.	2.6	7

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163	Efficient Hydraulic State Estimation Technique Using Reduced Models of Urban Water Networks. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 343-351.	2.6	54
164	Optimal multiyear management of a water supply system under uncertainty: Robust counterpart approach. Water Resources Research, 2011, 47, .	4.2	22
165	Chemical Stability Inclusion in Optimizing the Operation of Water Networks. , 2011, , .		1
166	A coupled model tree (MT) genetic algorithm (GA) scheme for biofouling assessment in pipelines. Water Research, 2011, 45, 6277-6288.	11.3	8
167	Multi-Year Optimal Management of Quantities and Salinities in Water Supply Systems. , 2011, , .		0
168	Bayesian Networks for Estimating Contaminant Source and Propagation in a Water Distribution System Using Cluster Structure. , 2011, , .		3
169	Optimal Design of Regional Wastewater Pipelines and Treatment Plant Systems. Water Environment Research, 2011, 83, 53-64.	2.7	21
170	Optimal Multi-Year Management of a Water Supply System under Uncertainty: Robust Counterpart Approach. , 2011, , .		2
171	Multi-objective optimization for conjunctive placement of hydraulic and water quality sensors in water distribution systems. Water Science and Technology: Water Supply, 2011, 11, 166-171.	2.1	14
172	Search Method for Box-Constrained Optimization. , 2011, , .		0
173	Topological clustering for water distribution systems analysis. Environmental Modelling and Software, 2011, 26, 969-972.	4.5	145
174	Identification of Possible Contamination Sources Using Reverse Hydraulic Simulation. , 2011, , .		3
175	Hydraulic uncertainty inclusion in water distribution systems contamination source identification. Urban Water Journal, 2011, 8, 267-277.	2.1	20
176	Protecting Water and Wastewater Systems: Water Distribution Systems Security Modeling. , 2011, , 247-264.		0
177	Benefits of Meta-Model Validation for Real-Time Sewer System Decision Support. , 2011, , .		0
178	Alternative Formulation for DBP's Minimization by Optimal Design of Booster Chlorination Stations. , 2010, , .		2
179	Cluster Analysis for Water Distribution Systems Security Enhancement. , 2010, , .		2
180	Biofouling formation and modeling in nanofiltration membranes applied to wastewater treatment. Journal of Membrane Science, 2010, 360, 165-173.	8.2	45

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181	Extreme Impact Contamination Events Sampling for Water Distribution Systems Security. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 80-87.	2.6	20
182	Optimal groundwater contamination monitoring using pumping wells. Water Science and Technology, 2010, 62, 556-569.	2.5	2
183	State of the Art for Genetic Algorithms and Beyond in Water Resources Planning and Management. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 412-432.	2.6	490
184	Evolutionary Algorithm Memory Enhancement for Real-Time CSO Control. , 2010, , .		1
185	Evolutionary Optimization of Combined Sewer Overflow Control. , 2009, , .		0
186	Modeling highway runoff pollutant levels using a data driven model. Water Science and Technology, 2009, 60, 19-28.	2.5	16
187	Online Hydraulic State Prediction for Water Distribution Systems. , 2009, , .		20
188	Chemical stability of inline blends of desalinated, surface and ground waters: the need for higher alkalinity values in desalinated water. Desalination, 2009, 239, 334-345.	8.2	19
189	Coupled Genetic Algorithm and Linear Programming Scheme for Least-Cost Pipe Sizing of Water-Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2009, 135, 298-302.	2.6	41
190	Single and multi-objective optimal design of water distribution systems: application to the case study of the Hanoi system. Water Science and Technology: Water Supply, 2009, 9, 395-404.	2.1	7
191	Sensor Network Design with Improved Water Quality Models at Cross Junctions. , 2009, , .		5
192	A coupled model tree genetic algorithm scheme for flow and water quality predictions in watersheds. Journal of Hydrology, 2008, 349, 364-375.	5.4	48
193	Cross Entropy multiobjective optimization for water distribution systems design. Water Resources Research, 2008, 44, .	4.2	32
194	Ant Colony Optimization for Least-Cost Design and Operation of Pumping Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 107-118.	2.6	91
195	Multiobjective Contaminant Sensor Network Design for Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 366-377.	2.6	98
196	Multiobjective contaminant response modeling for water distribution systems security. Journal of Hydroinformatics, 2008, 10, 267-274.	2.4	48
197	The Battle of the Water Sensor Networks (BWSN): A Design Challenge for Engineers and Algorithms. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 556-568.	2.6	464
198	Multiobjective Sensor Design for Water Distribution Systems Security. , 2008, , .		12

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199	Sensor Network Design Proposal for the Battle of the Water Sensor Networks (BWSN). , 2008, , .		12
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