

# Avi A Ostfeld

## List of Publications by Year in descending order

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251  
papers

7,265  
citations

66234

42  
h-index

64668

79  
g-index

255  
all docs

255  
docs citations

255  
times ranked

4501  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.3	490
2	Evolutionary algorithms and other metaheuristics in water resources: Current status, research challenges and future directions. Environmental Modelling and Software, 2014, 62, 271-299.	1.9	477
3	Data-driven modelling: some past experiences and new approaches. Journal of Hydroinformatics, 2008, 10, 3-22.	1.1	471
4	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.	1.3	464
5	Optimal Layout of Early Warning Detection Stations for Water Distribution Systems Security. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 377-385.	1.3	288
6	Detecting Accidental Contaminations in Municipal Water Networks. Journal of Water Resources Planning and Management - ASCE, 1998, 124, 192-198.	1.3	220
7	The future of water resources systems analysis: Toward a scientific framework for sustainable water management. Water Resources Research, 2015, 51, 6110-6124.	1.7	214
8	Topological clustering for water distribution systems analysis. Environmental Modelling and Software, 2011, 26, 969-972.	1.9	145
9	Battle of the Water Calibration Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 523-532.	1.3	134
10	Characterizing Cyber-Physical Attacks on Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	1.3	130
11	Battle of the Attack Detection Algorithms: Disclosing Cyber Attacks on Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	1.3	127
12	Event Detection in Water Distribution Systems from Multivariate Water Quality Time Series. Environmental Science & Technology, 2012, 46, 8212-8219.	4.6	122
13	Contamination Source Identification in Water Systems: A Hybrid Model Treesâ€Linear Programming Scheme. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 263-273.	1.3	101
14	Multi-objective optimization of water quality, pumps operation, and storage sizing of water distribution systems. Journal of Environmental Management, 2013, 115, 189-197.	3.8	100
15	Multiobjective Contaminant Sensor Network Design for Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2008, 134, 366-377.	1.3	98
16	A Review of Cybersecurity Incidents in the Water Sector. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	98
17	Battle of the Water Networks II. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	92
18	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.	1.3	91

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19	A dynamic thresholds scheme for contaminant event detection in water distribution systems. <i>Water Research</i> , 2013, 47, 1899-1908.	5.3	89
20	Reliability simulation of water distribution systems – single and multiquality. <i>Urban Water</i> , 2002, 4, 53-61.	0.5	78
21	Genetic algorithm for contaminant source characterization using imperfect sensors. <i>Civil Engineering and Environmental Systems</i> , 2008, 25, 29-39.	0.4	73
22	Design of Optimal Reliable Multiquality Water-Supply Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1996, 122, 322-333.	1.3	69
23	Conjunctive optimal scheduling of pumping and booster chlorine injections in water distribution systems. <i>Engineering Optimization</i> , 2006, 38, 337-352.	1.5	61
24	An adaptive heuristic cross-entropy algorithm for optimal design of water distribution systems. <i>Engineering Optimization</i> , 2007, 39, 413-428.	1.5	61
25	Optimal design and operation of booster chlorination stations layout in water distribution systems. <i>Water Research</i> , 2014, 48, 209-220.	5.3	60
26	Detecting Accidental Contaminations in Municipal Water Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1999, 125, 308-310.	1.3	57
27	A hybrid genetic – instance based learning algorithm for CE-QUAL-W2 calibration. <i>Journal of Hydrology</i> , 2005, 310, 122-142.	2.3	57
28	Water-Distribution Systems Simplifications through Clustering. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 218-229.	1.3	57
29	Reliability analysis of water distribution systems. <i>Journal of Hydroinformatics</i> , 2004, 6, 281-294.	1.1	55
30	Efficient Hydraulic State Estimation Technique Using Reduced Models of Urban Water Networks. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 343-351.	1.3	54
31	A contamination source identification model for water distribution system security. <i>Engineering Optimization</i> , 2007, 39, 941-947.	1.5	50
32	Protecting Water Infrastructure From Cyber and Physical Threats: Using Multimodal Data Fusion and Adaptive Deep Learning to Monitor Critical Systems. <i>IEEE Signal Processing Magazine</i> , 2019, 36, 36-48.	4.6	50
33	Securing Water Distribution Systems Using Online Contamination Monitoring. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005, 131, 402-405.	1.3	49
34	Reliability analysis of regional water distribution systems. <i>Urban Water</i> , 2001, 3, 253-260.	0.5	48
35	A coupled model tree – genetic algorithm scheme for flow and water quality predictions in watersheds. <i>Journal of Hydrology</i> , 2008, 349, 364-375.	2.3	48
36	Multiobjective contaminant response modeling for water distribution systems security. <i>Journal of Hydroinformatics</i> , 2008, 10, 267-274.	1.1	48

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37	Operation of remote mobile sensors for security of drinking water distribution systems. <i>Water Research</i> , 2013, 47, 4217-4226.	5.3	48
38	Limited multi-stage stochastic programming for managing water supply systems. <i>Environmental Modelling and Software</i> , 2013, 41, 53-64.	1.9	48
39	Optimal Operation of Multiquality Networks. I: Steady-State Conditions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1993, 119, 645-662.	1.3	47
40	Water Distribution Systems Connectivity Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005, 131, 58-66.	1.3	46
41	Biofouling formation and modeling in nanofiltration membranes applied to wastewater treatment. <i>Journal of Membrane Science</i> , 2010, 360, 165-173.	4.1	45
42	A coupled classification and Evolutionary optimization model for contamination event detection in water distribution systems. <i>Water Research</i> , 2014, 51, 234-245.	5.3	45
43	A hybrid evolutionary data driven model for river water quality early warning. <i>Journal of Environmental Management</i> , 2014, 143, 8-16.	3.8	45
44	New formulation and optimization methods for water sensor placement. <i>Environmental Modelling and Software</i> , 2016, 76, 128-136.	1.9	44
45	Multiobjective Water Distribution Systems Control of Pumping Cost, Water Quality, and Storage-Reliability Constraints. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 184-193.	1.3	43
46	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.	1.9	43
47	Multi-objective evolutionary optimization for greywater reuse in municipal sewer systems. <i>Water Research</i> , 2013, 47, 5911-5920.	5.3	42
48	Coupled Genetic Algorithm and Linear Programming Scheme for Least-Cost Pipe Sizing of Water-Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2009, 135, 298-302.	1.3	41
49	Robust optimization for water distribution systems least cost design. <i>Water Resources Research</i> , 2013, 49, 6795-6809.	1.7	41
50	Iterative Linearization Scheme for Convex Nonlinear Equations: Application to Optimal Operation of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 299-312.	1.3	38
51	Optimal sensor placement for detecting organophosphate intrusions into water distribution systems. <i>Water Research</i> , 2015, 73, 193-203.	5.3	37
52	Optimal Design and Operation of Multiquality Networks under Unsteady Conditions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2005, 131, 116-124.	1.3	36
53	Bayesian Networks for Source Intrusion Detection. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 426-432.	1.3	36
54	Water quality modeling in sewer networks: Review and future research directions. <i>Water Research</i> , 2021, 202, 117419.	5.3	35

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55	Optimal Operation of Multiquality Networks. II: Unsteady Conditions. Journal of Water Resources Planning and Management - ASCE, 1993, 119, 663-684.	1.3	34
56	Minimum volume ellipsoid classification model for contamination event detection in water distribution systems. Environmental Modelling and Software, 2014, 57, 1-12.	1.9	34
57	An integrated logit model for contamination event detection in water distribution systems. Water Research, 2015, 75, 210-223.	5.3	34
58	A sensitive biomarker for the detection of aquatic contamination based on behavioral assays using zebrafish larvae. Ecotoxicology and Environmental Safety, 2016, 133, 271-280.	2.9	34
59	Optimal early warning monitoring system layout for water networks security: inclusion of sensors sensitivities and response delays. Civil Engineering and Environmental Systems, 2005, 22, 151-169.	0.4	33
60	Cross Entropy multiobjective optimization for water distribution systems design. Water Resources Research, 2008, 44, .	1.7	32
61	Integrated hydraulic and organophosphate pesticide injection simulations for enhancing event detection in water distribution systems. Water Research, 2014, 63, 271-284.	5.3	31
62	Evolutionary algorithm enhancement for model predictive control and real-time decision support. Environmental Modelling and Software, 2015, 69, 330-341.	1.9	31
63	Water and Wastewater Systems and Utilities: Challenges and Opportunities during the COVID-19 Pandemic. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	31
64	Multiobjective Optimization for Least Cost Design and Resiliency of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	27
65	A contaminant detection system for early warning in water distribution networks. Engineering Optimization, 2004, 36, 525-538.	1.5	26
66	Discrete Pump Scheduling and Leakage Control Using Linear Programming for Optimal Operation of Water Distribution Systems. Journal of Hydraulic Engineering, 2014, 140, .	0.7	26
67	Sensing and Cyberinfrastructure for Smarter Water Management: The Promise and Challenge of Ubiquity. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	25
68	Optimal operation of multiquality water distribution systems: unsteady conditions. Engineering Optimization, 2004, 36, 337-359.	1.5	24
69	Optimal Pump Scheduling in Water Distribution Systems Using Graph Theory under Hydraulic and Chlorine Constraints. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	23
70	A versatile and low-cost open source pipetting robot for automation of toxicological and ecotoxicological bioassays. PLoS ONE, 2017, 12, e0179636.	1.1	23
71	Optimal multiyear management of a water supply system under uncertainty: Robust counterpart approach. Water Resources Research, 2011, 47, .	1.7	22
72	Locating Monitors in Water Distribution Systems: Red Team“Blue Team Exercise. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 300-304.	1.3	21

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73	Optimal Design of Regional Wastewater Pipelines and Treatment Plant Systems. <i>Water Environment Research</i> , 2011, 83, 53-64.	1.3	21
74	Least-Cost Robust Design Optimization of Water Distribution Systems under Multiple Loading. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	1.3	21
75	Water Distribution System Aggregation for Water Quality Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2008, 134, 303-309.	1.3	20
76	Online Hydraulic State Prediction for Water Distribution Systems. , 2009, , .		20
77	Extreme Impact Contamination Events Sampling for Water Distribution Systems Security. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2010, 136, 80-87.	1.3	20
78	Hydraulic uncertainty inclusion in water distribution systems contamination source identification. <i>Urban Water Journal</i> , 2011, 8, 267-277.	1.0	20
79	Optimal reliable design and operation of water distribution systems through decomposition. <i>Water Resources Research</i> , 2012, 48, .	1.7	20
80	Inclusion of Mobile Sensors in Water Distribution System Monitoring Operations. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	1.3	20
81	Battle of Water Networks DMAs: Multistage Design Approach. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	20
82	Incorporating reliability in optimal design of water distribution networks” review and new concepts. <i>Reliability Engineering and System Safety</i> , 1993, 42, 5-11.	5.1	19
83	Chemical stability of inline blends of desalinated, surface and ground waters: the need for higher alkalinity values in desalinated water. <i>Desalination</i> , 2009, 239, 334-345.	4.0	19
84	Network hydraulics inclusion in water quality event detection using multiple sensor stations data. <i>Water Research</i> , 2015, 80, 47-58.	5.3	19
85	Water Leak Localization Using High-Resolution Pressure Sensors. <i>Water (Switzerland)</i> , 2021, 13, 591.	1.2	19
86	Modeling Bacterial Regrowth and Trihalomethane Formation in Water Distribution Systems. <i>Water (Switzerland)</i> , 2021, 13, 463.	1.2	19
87	Spatial event classification using simulated water quality data. <i>Environmental Modelling and Software</i> , 2016, 77, 71-80.	1.9	18
88	Extreme Impact Contamination Events Sampling for Real-Sized Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 581-585.	1.3	17
89	Multiobjective Optimization of Inline Mobile and Fixed Wireless Sensor Networks under Conditions of Demand Uncertainty. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	17
90	Bayesian Localization of Water Distribution System Contamination Intrusion Events Using Inline Mobile Sensor Data. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	17

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91	Resilience Assessment of Water Quality Sensor Designs under Cyber-Physical Attacks. <i>Water (Switzerland)</i> , 2021, 13, 647.	1.2	17
92	Analytical Ground-Water Flow Solutions for Channel-Aquifer Interaction. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1999, 125, 196-202.	0.6	16
93	Modeling highway runoff pollutant levels using a data driven model. <i>Water Science and Technology</i> , 2009, 60, 19-28.	1.2	16
94	A framework for real-time disinfection plan assembling for a contamination event in water distribution systems. <i>Water Research</i> , 2020, 174, 115625.	5.3	16
95	Enhancing Water-Distribution System Security through Modeling. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2006, 132, 209-210.	1.3	15
96	Multi-objective optimization for conjunctive placement of hydraulic and water quality sensors in water distribution systems. <i>Water Science and Technology: Water Supply</i> , 2011, 11, 166-171.	1.0	14
97	Climate change impacts on river basin and freshwater ecosystems: some observations on challenges and emerging solutions. <i>Journal of Water and Climate Change</i> , 2012, 3, 171-184.	1.2	14
98	Clustering for Analysis of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, .	1.3	14
99	Effects of the COVID-19 Pandemic on Water Utility Operations and Vulnerability. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	14
100	Least-cost design of water distribution systems under demand uncertainty: the robust counterpart approach. <i>Journal of Hydroinformatics</i> , 2013, 15, 737-750.	1.1	13
101	Single-Sludge Nitrogen Removal Model: Calibration and Verification. <i>Journal of Environmental Engineering, ASCE</i> , 1999, 125, 608-617.	0.7	12
102	Multiobjective Sensor Design for Water Distribution Systems Security. , 2008, , .		12
103	Sensor Network Design Proposal for the Battle of the Water Sensor Networks (BWSN). , 2008, , .		12
104	A deterministic approach for optimization of booster disinfection placement and operation for a water distribution system in Beijing. <i>Journal of Hydroinformatics</i> , 2013, 15, 1042-1058.	1.1	12
105	Application of Graph Theory to Sensor Placement in Water Distribution Systems. , 2013, , .		12
106	Simultaneous Sensor Placement and Pressure Reducing Valve Localization for Pressure Control of Water Distribution Systems. <i>Water (Switzerland)</i> , 2019, 11, 1352.	1.2	12
107	Active Contamination Detection in Water-Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	12
108	DMA Segmentation and Multiobjective Optimization for Trading Off Water Age, Excess Pressure, and Pump Operational Cost in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	12

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109	An Agent-Based Model for Contamination Response in Water Distribution Systems during the COVID-19 Pandemic. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	12
110	Inline Mobile Sensors for Contaminant Early Warning Enhancement in Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2017, 143, .	1.3	11
111	Model-based investigation of the formation, transmission, and health risk of perfluorooctanoic acid, a member of PFASs group, in drinking water distribution systems. <i>Water Research</i> , 2021, 204, 117626.	5.3	11
112	A Hybrid Data-Driven-Agent-Based Modelling Framework for Water Distribution Systems Contamination Response during COVID-19. <i>Water (Switzerland)</i> , 2022, 14, 1088.	1.2	11
113	Battle of Background Leakage Assessment for Water Networks Using Successive Linear Programming. <i>Procedia Engineering</i> , 2014, 89, 45-52.	1.2	10
114	Graph Theory Modeling Approach for Optimal Operation of Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 2016, 142, .	0.7	10
115	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
116	A Stochastic Early Warning Detection System Model for Drinking Water Distribution Systems Security. , 2004, , 1.		9
117	Solving the Inverse Problem of Deliberate Contaminants Intrusions into Water Distribution Systems. , 2005, , 1.		9
118	Modeling and Optimizing Hydraulic Transients in Water Distribution Systems. <i>Procedia Engineering</i> , 2014, 70, 1558-1565.	1.2	9
119	Optimal Sensor Placement in Water Distribution Systems for Injection of Chlorpyrifos. , 2014, , .		9
120	Reducing Combined Sewer Overflows through Model Predictive Control and Capital Investment. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 04017091.	1.3	9
121	Relax-tighten-round algorithm for optimal placement and control of valves and chlorine boosters in water networks. <i>European Journal of Operational Research</i> , 2021, 295, 690-698.	3.5	9
122	Assessment of the reliability of an on-site MBR system for greywater treatment and the associated aesthetic and health risks. <i>Water Science and Technology</i> , 2008, 57, 1103-1110.	1.2	8
123	A coupled model tree (MT) genetic algorithm (GA) scheme for biofouling assessment in pipelines. <i>Water Research</i> , 2011, 45, 6277-6288.	5.3	8
124	Bi-level Optimization of Closed Surge Tanks Placement and Sizing in Water Distribution System Subjected to Transient Events. <i>Procedia Engineering</i> , 2014, 89, 1329-1335.	1.2	8
125	Clustering for Real-Time Response to Water Distribution System Contamination Event Intrusions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	1.3	8
126	A Head Formulation for the Steady-State Analysis of Water Distribution Systems Using an Explicit and Exact Expression of the Colebrookâ€“White Equation. <i>Water (Switzerland)</i> , 2021, 13, 1163.	1.2	8



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127	Multi-Objective Operation-Leakage Optimization and Calibration of Water Distribution Systems. <i>Water (Switzerland)</i> , 2021, 13, 1606.	1.2	8
128	Modeling the Response of Nonchlorinated, Chlorinated, and Chloraminated Water Distribution Systems toward Arsenic Contamination. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	8
129	Optimizing Water Quality Treatment Levels for Water Distribution Systems under Mixing Uncertainty at Junctions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	8
130	Single and multi-objective optimal design of water distribution systems: application to the case study of the Hanoi system. <i>Water Science and Technology: Water Supply</i> , 2009, 9, 395-404.	1.0	7
131	Chemical Water Stability in Optimal Operation of Water Distribution Systems with Blended Desalinated Water. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2011, 137, 531-541.	1.3	7
132	Seasonal multi-year optimal management of quantities and salinities in regional water supply systems. <i>Environmental Modelling and Software</i> , 2012, 37, 55-67.	1.9	7
133	Iterative LP water system optimal operation including headloss, leakage, total head and source cost. <i>Journal of Hydroinformatics</i> , 2013, 15, 1203-1223.	1.1	7
134	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.	0.6	7
135	Modelling Heavy Metal Contamination Events in Water Distribution Systems. <i>Procedia Engineering</i> , 2015, 119, 328-336.	1.2	7
136	Coupled Data-Driven Evolutionary Algorithm for Toxic Cyanobacteria (Blue-Green Algae) Forecasting in Lake Kinneret. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, 04014069.	1.3	7
137	Optimal closure of system actuators for transient control: an analytical approach. <i>Journal of Hydroinformatics</i> , 2016, 18, 393-408.	1.1	7
138	A Two-Stage LP-NLP Methodology for the Least-Cost Design and Operation of Water Distribution Systems. <i>Water (Switzerland)</i> , 2020, 12, 1364.	1.2	7
139	Optimizing the Control of Decentralized Rainwater Harvesting Systems for Reducing Urban Drainage Flows. <i>Water (Switzerland)</i> , 2022, 14, 571.	1.2	7
140	Examining the Longitudinal Dispersion of Solutes Inside Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	7
141	Box-Constrained Optimization Methodology and Its Application for a Water Supply System Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2012, 138, 651-659.	1.3	6
142	Implicit Mean-Variance Approach for Optimal Management of a Water Supply System under Uncertainty. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 634-643.	1.3	6
143	Piecewise mixed integer programming for optimal sizing of surge control devices in water distribution systems. <i>Water Resources Research</i> , 2015, 51, 4391-4408.	1.7	6
144	Water Distribution Networks. <i>Studies in Computational Intelligence</i> , 2015, , 101-124.	0.7	6

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145	Limited Multistage Stochastic Programming for Water Distribution Systems Optimal Operation. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	6
146	Scaled Multiobjective Optimization of an Intensive Early Warning System for Water Distribution System Security. Journal of Hydraulic Engineering, 2017, 143, 04017025.	0.7	6
147	Incorporation of COVID-19-Inspired Behaviour into Agent-Based Modelling for Water Distribution Systems Contamination Responses. Water (Switzerland), 2021, 13, 2863.	1.2	6
148	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, .	1.3	6
149	Hydraulic Model Database for Applied Water Distribution Systems Research. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	6
150	Robust Multi-Objective Design Optimization of Water Distribution System under Uncertainty. Water (Switzerland), 2022, 14, 2199.	1.2	6
151	Water distribution systems optimal design using cross entropy. , 2005, , .		5
152	Sensor Network Design with Improved Water Quality Models at Cross Junctions. , 2009, , .		5
153	Water distribution systems event detection. , 2012, , .		5
154	Optimal Water System Operation Using Graph Theory Algorithms. Procedia Engineering, 2014, 89, 502-508.	1.2	5
155	Analyzing multi-variate water quality signals for water quality monitoring station placement in water distribution systems. Journal of Hydroinformatics, 2018, 20, 1323-1342.	1.1	5
156	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, .	1.3	5
157	Optimal Sensors Layout for Contamination Source Identification in Water Distribution Systems. , 2008, , .		4
158	Optimal Mobile Self-Powered Sensor Operation for Water Distribution Systems Water Quality Enhancements. , 2012, , .		4
159	Enhancing Water Distribution System Security through Water Quality Mobile Sensor Operation. , 2013, , .		4
160	Optimal Disinfection of Water Distribution Networks Following a Contamination Event. Procedia Engineering, 2014, 89, 168-172.	1.2	4
161	Dynamic Clustering for Water Distribution System Water Quality Management. , 2020, , .		4
162	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.	1.2	4

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163	Using Hydraulic Transients for Biofilm Detachment in Water Distribution Systems: Approximated Model. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2022, 148, .	1.3	4
164	Hydraulic Ram Pump Integration into Water Distribution Systems for Energy Recovery Application. <i>Water (Switzerland)</i> , 2022, 14, 21.	1.2	4
165	Contaminant Fate and Transport Modeling in Distribution Systems: EPANET-C. <i>Water (Switzerland)</i> , 2022, 14, 1665.	1.2	4
166	Bayesian Networks for Estimating Contaminant Source and Propagation in a Water Distribution System Using Cluster Structure. , 2011, , .		3
167	Identification of Possible Contamination Sources Using Reverse Hydraulic Simulation. , 2011, , .		3
168	Distributed estimation and control of water distribution networks by logical consensus. , 2014, , .		3
169	Comparison of Multivariate Classification Methods for Contamination Event Detection in Water Distribution Systems. <i>Procedia Engineering</i> , 2014, 70, 1271-1279.	1.2	3
170	Successive Linear Programming Approach Applied to BBLAWN. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	1.3	3
171	Stochastic Scenario Evaluation in Evolutionary Algorithms Used for Robust Scenario-Based Optimization. <i>Water Resources Research</i> , 2018, 54, 2813-2833.	1.7	3
172	Analytical Optimization Approach for Simultaneous Design and Operation of Water Distribution Systems Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2021, 147, .	1.3	3
173	An Analytical Model for the Decontamination of Water Distribution Systems Using Slug-Feed Method of Disinfection. <i>Water Resources Research</i> , 2021, 57, e2020WR028277.	1.7	3
174	Multi-Objective Design of Water Distribution Systems Using Cross Entropy. , 2005, , 1.		2
175	Reliable Optimal Design and Operation of Multiquality Networks: Unsteady Conditions. , 2005, , 1.		2
176	A Hybrid Model Tree (MT) - Genetic Algorithm (GA) Scheme for Toxic Cyanobacteria Predictions in Lake Kinneret. , 2006, , 1.		2
177	Alternative Formulation for DBP's Minimization by Optimal Design of Booster Chlorination Stations. , 2010, , .		2
178	Cluster Analysis for Water Distribution Systems Security Enhancement. , 2010, , .		2
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