

# Kevin E Lansey

## List of Publications by Year in descending order

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132  
papers

6,396  
citations

81743

39  
h-index

66788

78  
g-index

134  
all docs

134  
docs citations

134  
times ranked

3708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of Water Distribution Network Design Using the Shuffled Frog Leaping Algorithm. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 210-225.	1.3	1,126
2	Shuffled frog-leaping algorithm: a memetic meta-heuristic for discrete optimization. Engineering Optimization, 2006, 38, 129-154.	1.5	974
3	Battle of the Network Models: Epilogue. Journal of Water Resources Planning and Management - ASCE, 1987, 113, 191-203.	1.3	275
4	Reliability-Based Optimization Model for Water Distribution Systems. Journal of Hydraulic Engineering, 1987, 113, 1539-1556.	0.7	247
5	Optimization Model for Water Distribution System Design. Journal of Hydraulic Engineering, 1989, 115, 1401-1418.	0.7	181
6	Water Distribution System Design Under Uncertainties. Journal of Water Resources Planning and Management - ASCE, 1989, 115, 630-645.	1.3	175
7	Optimal Control of Water Supply Pumping Systems. Journal of Water Resources Planning and Management - ASCE, 1994, 120, 237-252.	1.3	173
8	Optimal Pump Operations Considering Pump Switches. Journal of Water Resources Planning and Management - ASCE, 1994, 120, 17-35.	1.3	150
9	Optimization-Based Design of Water Distribution Networks. Journal of Hydraulic Engineering, 1992, 118, 420-441.	0.7	137
10	Battle of the Water Calibration Networks. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 523-532.	1.3	134
11	Fate of organics during soil-aquifer treatment: sustainability of removals in the field. Water Research, 2003, 37, 3401-3411.	5.3	113
12	Real-Time Demand Estimation and Confidence Limit Analysis for Water Distribution Systems. Journal of Hydraulic Engineering, 2009, 135, 825-837.	0.7	103
13	Parameter Estimation for Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 1991, 117, 126-144.	1.3	93
14	Optimal Reliability-Based Design of Pumping and Distribution Systems. Journal of Hydraulic Engineering, 1990, 116, 249-268.	0.7	91
15	Reliable water supply system design under uncertainty. Environmental Modelling and Software, 2009, 24, 449-462.	1.9	78
16	Resilience/Availability Analysis of Municipal Water Distribution System Incorporating Adaptive Pump Operation. Journal of Hydraulic Engineering, 2013, 139, 527-537.	0.7	78
17	Demand and Roughness Estimation in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 20-30.	1.3	77
18	Reliability/Availability Analysis of Municipal Water Distribution Networks: Case Studies. Journal of Water Resources Planning and Management - ASCE, 2002, 128, 140-151.	1.3	76

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19	Water Distribution System Burst Detection Using a Nonlinear Kalman Filter. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	76
20	Revisiting Optimal Water-Distribution System Design: Issues and a Heuristic Hierarchical Approach. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 208-217.	1.3	73
21	Life Cycle Analysis for Water and Wastewater Pipe Materials. Journal of Environmental Engineering, ASCE, 2013, 139, 703-711.	0.7	70
22	A general water supply planning model: Evaluation of decentralized treatment. Environmental Modelling and Software, 2008, 23, 893-905.	1.9	63
23	Robustness-Based Design of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2014, 140, .	1.3	61
24	Scenario-Based Robust Optimization of Regional Water and Wastewater Infrastructure. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 325-338.	1.3	58
25	Approximate methods for uncertainty analysis of water distribution systems. Urban Water Journal, 2009, 6, 233-249.	1.0	57
26	Real-Time Optimal Valve Operation and Booster Disinfection for Water Quality in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 463-473.	1.3	55
27	Improving the rapidity of responses to pipe burst in water distribution systems: a comparison of statistical process control methods. Journal of Hydroinformatics, 2015, 17, 307-328.	1.1	55
28	Multiperiod Planning of Water Supply Infrastructure Based on Scenario Analysis. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 40-54.	1.3	54
29	Effect of parameter uncertainty on water quality predictions in distribution systems-case study. Journal of Hydroinformatics, 2010, 12, 1-21.	1.1	53
30	Urban resilience and green infrastructure systems: towards a multidimensional evaluation. Current Opinion in Environmental Sustainability, 2020, 44, 42-47.	3.1	53
31	Determining Pipe Groupings for Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2002, 128, 130-139.	1.3	50
32	Locating Satellite Booster Disinfectant Stations. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 372-376.	1.3	50
33	Seismic Hazard Assessment Model for Urban Water Supply Networks. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	48
34	Strategies to Develop Warm Solutions for Real-Time Pump Scheduling for Water Distribution Systems. Water Resources Management, 2014, 28, 3975-3987.	1.9	45
35	Water Distribution System Classification Using System Characteristics and Graph-Theory Metrics. Journal of Water Resources Planning and Management - ASCE, 2017, 143, .	1.3	45
36	Transformation of effluent organic matter during subsurface wetland treatment in the Sonoran Desert. Chemosphere, 2004, 54, 777-788.	4.2	43

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37	Progress and Recommendations for Advancing Performance-Based Sustainable and Resilient Infrastructure Design. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	1.3	42
38	Nitrogen Transformations during Soilâ€Aquifer Treatment of Wastewater Effluentâ€Oxygen Effects in Field Studies. Journal of Environmental Engineering, ASCE, 2006, 132, 1298-1306.	0.7	41
39	Application of the Shuffled Frog Leaping Algorithm for the Optimization of a General Large-Scale Water Supply System. Water Resources Management, 2009, 23, 797-823.	1.9	41
40	OPTIMAL MAINTENANCE SCHEDULING FOR WATER DISTRIBUTION SYSTEMS. Civil Engineering and Environmental Systems, 1992, 9, 211-226.	0.2	39
41	Dual Water Distribution Network Design under Triple-Bottom-Line Objectives. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 162-175.	1.3	39
42	Novel Approach to Detecting Pipe Bursts in Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 121-127.	1.3	36
43	Optimal Meter Placement for Water Distribution System State Estimation. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 337-347.	1.3	35
44	Optimal Operation of Artificial Groundwater Recharge Systems Considering Water Quality Transformations. Water Resources Management, 2004, 18, 379-405.	1.9	34
45	Centralized versus Decentralized Wastewater Reclamation in the Houghton Area of Tucson, Arizona. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 313-324.	1.3	34
46	Determining Pump Operations using Particle Swarm Optimization. , 2000, , 1.		33
47	Scenario Planning to Address Critical Uncertainties for Robust and Resilient Waterâ€Wastewater Infrastructures under Conditions of Water Scarcity and Rapid Development. Water (Switzerland), 2012, 4, 848-868.	1.2	33
48	Effect of Uncertainty on Water Distribution System Model Design Decisions. Journal of Water Resources Planning and Management - ASCE, 2009, 135, 38-47.	1.3	31
49	Reclaimed water distribution network design under temporal and spatial growth and demand uncertainties. Environmental Modelling and Software, 2013, 49, 103-117.	1.9	31
50	Resilience-based failure mode effects and criticality analysis for regional water supply system. Journal of Hydroinformatics, 2015, 17, 193-210.	1.1	30
51	Fate of Wastewater Effluent hER-Agonists and hER-Antagonists during Soil Aquifer Treatment. Environmental Science & Technology, 2005, 39, 2287-2293.	4.6	29
52	Optimal meter placement for pipe burst detection in water distribution systems. Journal of Hydroinformatics, 2016, 18, 741-756.	1.1	29
53	Projecting avian response to linked changes in groundwater and riparian floodplain vegetation along a dryland river: a scenario analysis. Ecohydrology, 2011, 4, 130-142.	1.1	27
54	Enhanced Artificial Neural Networks Estimating Water Quality Constraints for the Optimal Water Distribution Systems Design. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	27

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55	Evaluation of the storage function model parameter characteristics. <i>Journal of Hydrology</i> , 1997, 191, 332-348.	2.3	25
56	Sustainability, robustness, and resilience metrics for water and other infrastructure systems. <i>Sustainable and Resilient Infrastructure</i> , 2018, 3, 16-35.	1.7	22
57	A dynamic simulation based water resources education tool. <i>Journal of Environmental Management</i> , 2009, 90, 471-482.	3.8	21
58	Boron Isotopes as an Artificial Tracer. <i>Ground Water</i> , 2006, 44, 453-466.	0.7	21
59	Multiphase DMA Design Methodology Based on Graph Theory and Many-Objective Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2020, 146, .	1.3	20
60	Scenario-based robust optimization of a water supply system under risk of facility failure. <i>Environmental Modelling and Software</i> , 2015, 67, 160-172.	1.9	19
61	Water Distribution Network Design Using the Shuffled Frog Leaping Algorithm. , 2001, , 1.		18
62	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
63	Real-Time Flood Management Model for Highland Lake System. <i>Journal of Water Resources Planning and Management - ASCE</i> , 1987, 113, 620-638.	1.3	15
64	Real-Time Detection of Sanitary Sewer Overflows Using Neural Networks and Time Series Analysis. <i>Journal of Environmental Engineering, ASCE</i> , 2007, 133, 353-363.	0.7	14
65	Fate of effluent organic matter during soil aquifer treatment: biodegradability, chlorine reactivity and genotoxicity. <i>Journal of Water and Health</i> , 2003, 1, 33-44.	1.1	12
66	Estrogenic Activity and Volume Fraction of Waste Water Origin in Monitoring Wells Along the Santa Cruz River, Arizona. <i>Ground Water Monitoring and Remediation</i> , 2004, 24, 86-93.	0.6	12
67	Burst Detection in Water Distribution System Using the Extended Kalman Filter. <i>Procedia Engineering</i> , 2014, 70, 902-906.	1.2	12
68	Robustness-based optimal pump design and scheduling for water distribution systems. <i>Journal of Hydroinformatics</i> , 2016, 18, 500-513.	1.1	12
69	Heuristic Postoptimization Approaches for Design of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2013, 139, 387-395.	1.3	11
70	Decentralized Water Reuse: Regional Water Supply System Resilience Benefits. <i>Procedia Engineering</i> , 2014, 70, 853-856.	1.2	11
71	Accuracy of First-Order Second-Moment Approximation for Uncertainty Analysis of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2018, 144, 04017087.	1.3	11
72	Modular interdependency analysis for water distribution systems. <i>Water Research</i> , 2021, 201, 117320.	5.3	11

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73	Scenario-Based Multistage Construction of Water Supply Infrastructure. , 2012, , .		10
74	Comparison of Imputation Methods for End-User Demands in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	10
75	Net Zero Urban Water from Concept to Applications: Integrating Natural, Built, and Social Systems for Responsive and Adaptive Solutions. ACS ES&T Water, 2021, 1, 518-529.	2.3	10
76	Monitoring sewage networks for sanitary sewer overflows. Civil Engineering and Environmental Systems, 2005, 22, 123-130.	0.4	9
77	Effect of Data Collection on the Estimation of Wall Reaction Coefficients for Water Distribution Models. Journal of Water Resources Planning and Management - ASCE, 2012, 138, 614-623.	1.3	9
78	Estimation of Water Pipe Installation Construction Costs. Journal of Pipeline Systems Engineering and Practice, 2018, 9, .	0.9	9
79	DESIGN OF ENGINEERING SYSTEMS USING STOCHASTIC DECOMPOSITION:WATER SUPPLY PLANNING APPLICATION. Engineering Optimization, 1997, 27, 279-302.	1.5	8
80	Detecting Pipe Bursts Using Heuristic and CUSUM Methods. Procedia Engineering, 2014, 70, 85-92.	1.2	8
81	VERIFICATION AND APPLICATION OF REGIONAL EQUATIONS FOR THE STORAGE FUNCTION RUNOFF MODEL. Journal of the American Water Resources Association, 1999, 35, 1147-1157.	1.0	7
82	AN APPROXIMATE METHOD FOR SOLVING STOCHASTIC TWO-STAGE PROGRAMMING PROBLEMS. Engineering Optimization, 2001, 33, 279-302.	1.5	7
83	Optimal Operation of Multi-Reservoir Systems under Uncertainty. , 2001, , 1.		7
84	EDTA, NTA, Alkylphenol Ethoxylate and DOC Attenuation during Soil Aquifer Treatment. Journal of Environmental Engineering, ASCE, 2006, 132, 674-682.	0.7	7
85	Ecosystem Services and Reallocation Choices: A Framework for Preserving Semi-Arid Regions in the Southwest. Journal of Contemporary Water Research and Education, 2010, 144, 60-74.	0.7	7
86	Impact of an incomplete solute mixing model on sensor network design. Journal of Hydroinformatics, 2011, 13, 642-651.	1.1	7
87	Improving Resilience of Water Distribution System through Burst Detection. , 2013, , .		7
88	Optimum Operation of Recharge Basins. Journal of Water Resources Planning and Management - ASCE, 1994, 120, 927-943.	1.3	6
89	Reliability/Availability Analysis of Water Distribution Systems Considering Adaptive Pump Operation. , 2011, , .		6
90	Resilience of Regional Water Supply Systems. , 2013, , .		6

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91	Isolation Valve Impact on Failure Severity and Risk Analysis. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	6
92	Response Surfaces for Water Distribution System Pipe Roughness Calibration. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	6
93	The Evolution of Optimizing Water Distribution System Applications. , 2008, , .		5
94	Sensor Network Design with Improved Water Quality Models at Cross Junctions. , 2009, , .		5
95	Post-earthquake Restoration of Water Supply Infrastructure. , 2013, , .		5
96	Reformulation linearization technique based branch-and-reduce approach applied to regional water supply system planning. Engineering Optimization, 2016, 48, 454-475.	1.5	5
97	OPTIMAL MULTIRESERVOIR HYDROPOWER OPERATIONS BY DECOMPOSITION. Engineering Optimization, 1992, 19, 131-151.	1.5	4
98	WDS calibration and assessment for alternative modelling objectives. Urban Water Journal, 2009, 6, 265-277.	1.0	4
99	OPTIMAL SIZING OF IRRIGATION DELIVERY SYSTEMS USING A TWO-STAGE STOCHASTIC PROGRAMMING APPROACH. Civil Engineering and Environmental Systems, 2001, 18, 331-362.	0.4	3
100	Discussion of "Mixed-Integer Approach for Obtaining Unique Solutions in Source Inversion of Water Networks" by Carl D. Laird, Lorenz T. Biegler, and Bart G. van Bloemen Waanders. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 573-575.	1.3	3
101	Steady-State Water Quality Analysis for Pipe Network Systems. Journal of Environmental Engineering, ASCE, 2007, 133, 777-782.	0.7	3
102	A Scenario-Based Optimization Model for Water Supply System Planning. , 2011, , .		3
103	Implications of Soil Aquifer Treatment for Sustainable Water Reuse on Groundwater Quality. , 1999, , 1.		2
104	Decision Support System for Managing Conflict in the Upper San Pedro Subwatershed, AZ. , 2006, , 60.		2
105	Development of a cost function of water distribution systems for residential subdivisions. Urban Water Journal, 2015, 12, 145-153.	1.0	2
106	Fate of effluent organic matter during soil aquifer treatment: biodegradability, chlorine reactivity and genotoxicity. Journal of Water and Health, 2003, 1, 33-44.	1.1	2
107	Optimal Risk-Based Inspection and Dredging Scheduling for Independent Dredge Reaches. Journal of Waterway, Port, Coastal and Ocean Engineering, 1993, 119, 289-301.	0.5	1
108	An Overview of HANDSS: Hula Aggregated Numerical Decision Support System. , 2000, , 1.		1

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109	Filtering Bad Measurement Data for Water Distribution System Demand Estimation. Journal of Water Resources Planning and Management - ASCE, 2010, 136, 512-517.	1.3	1
110	Water Management by Optimizing Distributed Wastewater Reclamation Capacity. , 2011, , .		1
111	The Battle of the Water Calibration Networks (BWC): Roughness and Demand Estimation Based on Weighted Least Squares (WLS) Method. , 2011, , .		1
112	Optimal Reclaimed Water Network Design via Two-Stage Stochastic Binary Programming. , 2011, , .		1
113	Sustainability Indicators for Long-Term Water Supply: Case Studies of Tucson Active Management Area. , 2011, , .		1
114	A Decision Support System for Sustainable Urban Water Supply. , 2011, , .		1
115	Improving Water System Resilience by Advanced Leakage Detection. , 2012, , .		1
116	Water Distribution Network Design Using a Robustness Index. , 2012, , .		1
117	Enhancing Artificial Neural Networks Applied to the Optimal Design of Water Distribution Systems. , 2013, , .		1
118	Restoration of Riparian Zonesâ€”A Decision Support System. , 2001, , .		1
119	Estimating Uncertainty in Hydrologic Model Predictions. , 1999, , 1.		0
120	Analysis of Unsteady Flow in Networks Using a Gradient Algorithm Based Method. , 1999, , 1.		0
121	How Reliable are Water Distribution Networks?. , 2000, , 1.		0
122	Impact of Data Collection and Calibration of Water Distribution Models on Model-Based Decisions. , 2004, , 1.		0
123	Calibration of and Data Collection for Hydraulic Models for Alternative Model Purposes. , 2008, , .		0
124	Real-Time Valve Operation for Water Quality Improvement in Water Distribution Systems. , 2009, , .		0
125	New Concepts for Meter Placement in Water Distribution Systems for Demand Estimation. , 2009, , .		0
126	A Logical Approach for Water Distribution System Optimal Design. , 2011, , .		0



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127	Multi-Objective Optimal Design of Dual Water Distribution Network. , 2011, , .		0
128	Sequential Estimation of Demand and Roughness in Water Distribution System. , 2011, , .		0
129	Bad Data Processing for Water Distribution System Demand Estimation. , 2011, , .		0
130	Post-Optimization Heuristics Complementing the Design of Real Water Distribution Systems. , 2012, , .		0
131	Scenario Planning for Robust Water Supply Infrastructure Design. , 2012, , .		0
132	Development of a Cost Function for Residential Subdivisions through Genetic Algorithms. , 2013, , .		0