

Angus R Simpson

List of Publications by Year in descending order

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papers

2,171
citations

257450

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254184

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44
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docs citations

44
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Distribution Systems on the Spot: Energy Market Opportunities for Water Utilities. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	2
2	Stochastic Resonance Enhancement for Leak Detection in Pipelines Using Fluid Transients and Convolutional Neural Networks. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	2.6	11
3	Merging Fluid Transient Waves and Artificial Neural Networks for Burst Detection and Identification in Pipelines. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	17
4	Water Hammer Simulation Method in Pressurized Pipeline with a Moving Isolation Device. Water (Switzerland), 2021, 13, 1794.	2.7	4
5	Minimizing Pumping Energy Cost in Real-Time Operations of Water Distribution Systems Using Economic Model Predictive Control. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	12
6	Leak Detection for Pipelines Using In-Pipe Optical Fiber Pressure Sensors and a Paired-IRF Technique. Journal of Hydraulic Engineering, 2020, 146, 06020013.	1.5	12
7	Paired-IRF Method for Detecting Leaks in Pipe Networks. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	23
8	A Content-Based Active-Set Method for Pressure-Dependent Models of Water Distribution Systems with Flow Controls. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	14
9	Leak Detection and Topology Identification in Pipelines Using Fluid Transients and Artificial Neural Networks. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	59
10	Wave separation and pipeline condition assessment using in-pipe fibre optic pressure sensors. Journal of Hydroinformatics, 2019, 21, 371-379.	2.4	12
11	Content-Based Active-Set Method for the Pressure-Dependent Model of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	25
12	Pressure Surge Suppression Using a Metallic-Plastic-Metallic Pipe Configuration. Journal of Hydraulic Engineering, 2018, 144, .	1.5	27
13	Influence of connection stub parameters and valve closure time on transient measurement accuracy of a pressure transducer. Water Science and Technology: Water Supply, 2018, 18, 1984-1995.	2.1	2
14	Detecting Thinner-Walled Pipe Sections Using a Spark Transient Pressure Wave Generator. Journal of Hydraulic Engineering, 2018, 144, .	1.5	45
15	Let's Get Moving and Write Software: An Open Source Project for EPANET. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 01818001.	2.6	6
16	Optimization of Pumping Costs and Harvested Volume for a Stormwater Harvesting System. Journal of Water Resources Planning and Management - ASCE, 2018, 144, 05018011.	2.6	1
17	Let's Get Moving and Write Software: An Open Source Project for. Journal of Water Resources Planning and Management - ASCE, 2018, 144, .	2.6	1
18	Comparison of the Searching Behavior of NSGA-II, SAMODE, and Borg MOEAs Applied to Water Distribution System Design Problems. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	74

#	ARTICLE	IF	CITATIONS
19	Experimental verification of pipeline frequency response extraction and leak detection using the inverse repeat signal. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 210-219.	1.7	36
20	Optimization of Pump Operation Using Rule-Based Controls in EPANET2: New ETTAR Toolkit and Correction of Energy Computation. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	28
21	Effect of Storage Tank Size on the Minimization of Water Distribution System Cost and Greenhouse Gas Emissions While Considering Time-Dependent Emissions Factors. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	18
22	A Robust, Rapidly Convergent Method That Solves the Water Distribution Equations for Pressure-Dependent Models. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	42
23	On-site non-invasive condition assessment for cement mortar-lined metallic pipelines by time-domain fluid transient analysis. <i>Structural Health Monitoring</i> , 2015, 14, 426-438.	7.5	34
24	Noncrossover Dither Creeping Mutation-Based Genetic Algorithm for Pipe Network Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 553-557.	2.6	14
25	Detection of Localized Deterioration Distributed along Single Pipelines by Reconstructive MOC Analysis. <i>Journal of Hydraulic Engineering</i> , 2014, 140, 190-198.	1.5	54
26	Battle of the Water Networks II. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	2.6	92
27	An efficient hybrid approach for multiobjective optimization of water distribution systems. <i>Water Resources Research</i> , 2014, 50, 3650-3671.	4.2	37
28	Reformulated Co-Tree Flows Method Competitive with the Global Gradient Algorithm for Solving Water Distribution System Equations. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, .	2.6	41
29	Coupled Binary Linear Programming-Differential Evolution Algorithm Approach for Water Distribution System Optimization. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014, 140, 585-597.	2.6	27
30	Single-Event Leak Detection in Pipeline Using First Three Resonant Responses. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 645-655.	1.5	60
31	Multiobjective optimization of water distribution systems accounting for economic cost, hydraulic reliability, and greenhouse gas emissions. <i>Water Resources Research</i> , 2013, 49, 1211-1225.	4.2	61
32	A graph decomposition-based approach for water distribution network optimization. <i>Water Resources Research</i> , 2013, 49, 2093-2109.	4.2	37
33	Self-Adaptive Differential Evolution Algorithm Applied to Water Distribution System Optimization. <i>Journal of Computing in Civil Engineering</i> , 2013, 27, 148-158.	4.7	73
34	Determination of the linear frequency response of single pipelines using persistent transient excitation: a numerical investigation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013, 51, 728-734.	1.7	6
35	A decomposition and multistage optimization approach applied to the optimization of water distribution systems with multiple supply sources. <i>Water Resources Research</i> , 2013, 49, 380-399.	4.2	36
36	Closure to the Jacobian Matrix for Solving Water Distribution System Equations with the Darcy-Weisbach Head-Loss Model by Angus Simpson and Sylvan Elhay. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 1001-1002.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Dealing with Zero Flows in Solving the Nonlinear Equations for Water Distribution Systems. Journal of Hydraulic Engineering, 2011, 137, 1216-1224.	1.5	44
38	A combined NLP–differential evolution algorithm approach for the optimization of looped water distribution systems. Water Resources Research, 2011, 47, .	4.2	103
39	In-line check valves for water hammer control. Journal of Hydraulic Research/De Recherches Hydrauliques, 2007, 45, 547-554.	1.7	23
40	Experimental verification of the frequency response method for pipeline leak detection. Journal of Hydraulic Research/De Recherches Hydrauliques, 2006, 44, 693-707.	1.7	145
41	Genetic Algorithms for Reliability-Based Optimization of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 63-72.	2.6	177
42	Ant Colony Optimization for Design of Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2003, 129, 200-209.	2.6	387
43	Leak Detection in Pipelines using the Damping of Fluid Transients. Journal of Hydraulic Engineering, 2002, 128, 697-711.	1.5	246