John C Matthews

List of Publications by Year
in descending order

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74 papers	920 citations	516710 16 h-index	501196 28 g-index
74 all docs	74 docs citations	74 times ranked	627 citing authors

#	Article	IF	Citations
1	Towards Sustainable Water Supply: Schematic Development of Big Data Collection Using Internet of Things (IoT). Procedia Engineering, 2015, 118, 489-497.	1.2	83
2	Social cost impact assessment of pipeline infrastructure projects. Environmental Impact Assessment Review, 2015, 50, 196-202.	9.2	65
3	Production of geopolymer mortar system containing high calcium biomass wood ash as a partial substitution to fly ash: An early age evaluation. Composites Part B: Engineering, 2019, 174, 106941.	12.0	51
4	Trenchless Construction Technologies for Oil and Gas Pipelines: State-of-the-Art Review. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	51
5	A pilot study for retrospective evaluation of cured-in-place pipe (CIPP) rehabilitation of municipal gravity sewers. Tunnelling and Underground Space Technology, 2014, 39, 82-93.	6.2	50
6	Novel Data-Driven Framework for Predicting Residual Strength of Corroded Pipelines. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	1.6	45
7	Disaster Resilience of Critical Water Infrastructure Systems. Journal of Structural Engineering, 2016, 142, .	3.4	43
8	An ensemble model based on relevance vector machine and multi-objective salp swarm algorithm for predicting burst pressure of corroded pipelines. Journal of Petroleum Science and Engineering, 2021, 203, 108585.	4.2	38
9	Consequence-of-Failure Model for Risk-Based Asset Management of Wastewater Pipes Using AHP. Journal of Pipeline Systems Engineering and Practice, 2019, 10, .	1.6	33
10	A comprehensive review on the challenges of cured-in-place pipe (CIPP) installations. Journal of Water Supply: Research and Technology - AQUA, 2016, 65, 583-596.	1.4	26
11	Impact of Hurricanes and Flooding on Buried Infrastructure. Leadership and Management in Engineering, 2012, 12, 151-156.	0.3	25
12	Empirical Analysis of Water-Main Failure Consequences. Procedia Engineering, 2015, 118, 727-734.	1.2	23
13	How does trenchless technology make pipeline construction greener? A comprehensive carbon footprint and energy consumption analysis. Journal of Cleaner Production, 2020, 261, 121215.	9.3	22
14	Innovative rehabilitation technology demonstration and evaluation program. Tunnelling and Underground Space Technology, 2014, 39, 73-81.	6.2	19
15	Wastewater Pipe Condition Rating Model Using Multicriteria Decision Analysis. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	19
16	Hybrid machine learning for pullback force forecasting during horizontal directional drilling. Automation in Construction, 2021, 129, 103810.	9.8	19
17	Analysis of Wastewater and Water System Renewal Decision-Making Tools and Approaches. Journal of Pipeline Systems Engineering and Practice, 2012, 3, 99-105.	1.6	17
18	Empirical analysis of large diameter water main break consequences. Resources, Conservation and Recycling, 2017, 123, 242-248.	10.8	17

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19	Fully Automated Decision Support System for Assessing the Suitability of Trenchless Technologies. Journal of Pipeline Systems Engineering and Practice, 2012, 3, 55-64.	1.6	16
20	Demonstration and evaluation of an innovative water main rehabilitation technology: Cured-in-Place Pipe (CIPP) lining. Water Practice and Technology, 2012, 7, .	2.0	15
21	Demonstration and Evaluation of State-of-the-Art Wastewater Collection Systems Condition Assessment Technologies. Journal of Pipeline Systems Engineering and Practice, 2014, 5, .	1.6	15
22	Large-Diameter Sewer Rehabilitation Using a Fiber-Reinforced Cured-in-Place Pipe. Practice Periodical on Structural Design and Construction, 2015, 20, .	1.3	14
23	Synergistic utilization of diverse industrial wastes for reutilization in steel production and their geopolymerization potential. Waste Management, 2021, 126, 728-736.	7.4	14
24	Current and Emerging Water Main Renewal Technologies. Journal of Infrastructure Systems, 2013, 19, 231-241.	1.8	12
25	Innovative research program on the renewal of aging water infrastructure systems. Journal of Water Supply: Research and Technology - AQUA, 2015, 64, 117-129.	1.4	12
26	A retrospective evaluation of the performance of liner systems used to rehabilitate municipal gravity sewers. Tunnelling and Underground Space Technology, 2015, 50, 451-464.	6.2	12
27	Sewer Rehabilitation Using an Ultraviolet-Cured GFR Cured-in-Place Pipe. Practice Periodical on Structural Design and Construction, 2015, 20, .	1.3	11
28	Analysis of risk management methods used in trenchless renewal decision making. Tunnelling and Underground Space Technology, 2018, 72, 272-280.	6.2	11
29	Near Real-Time HDD Pullback Force Prediction Model Based on Improved Radial Basis Function Neural Networks. Journal of Pipeline Systems Engineering and Practice, 2020, 11, 04020042.	1.6	9
30	Evaluation of Carbon Footprint of Pipeline Materials during Installation, Operation, and Disposal Phases. Journal of Pipeline Systems Engineering and Practice, 2020, 11, .	1.6	9
31	Optimal selection of acoustic leak detection techniques for water pipelines using multi-criteria decision analysis. Management of Environmental Quality, 2018, 29, 255-277.	4.3	8
32	Multi-segment trenchless technology method selection algorithm for buried pipelines. Tunnelling and Underground Space Technology, 2018, 73, 295-301.	6.2	8
33	In-situ assessment of soil-root bonding strength to aid in preventing soil erosion. Soil and Tillage Research, 2021, 213, 105140.	5.6	8
34	Large-Diameter Sewer Rehabilitation Using a Spray-Applied Fiber-Reinforced Geopolymer Mortar. Practice Periodical on Structural Design and Construction, 2015, 20, 04014050.	1.3	7
35	Evaluation of testing methods for tracking CIPP linersâ€™ life-cycle performance. Cogent Engineering, 2018, 5, 1463594.	2.2	7
36	Environmental Impact Assessment of the Fabrication of Pipe Rehabilitation Materials. Journal of Pipeline Systems Engineering and Practice, 2020, 11, .	1.6	7

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37	Experimental and Numerical Study of Cyclic Performance of Reinforced Concrete Exterior Connections with Rectangular-Spiral Reinforcement. Journal of Structural Engineering, 2020, 146, .	3.4	7
38	Studying the Life-cycle Performance of Gravity Sewer Rehabilitation Liners in North America. Procedia Engineering, 2016, 165, 251-258.	1.2	6
39	Demonstration and Evaluation of Innovative Rehabilitation Technologies for Water Infrastructure Systems. Journal of Pipeline Systems Engineering and Practice, 2017, 8, .	1.6	5
40	A hybrid model for monthly water demand prediction: A case study of Austin, Texas. AWWA Water Science, 2020, 2, e1175.	2.1	5
41	Demonstration and evaluation of an innovative water main rehabilitation technology: spray-on polymeric lining. Water Practice and Technology, 2012, 7, .	2.0	4
42	Disaster Resilience of Drinking Water Infrastructure Systems to Multiple Hazards. , 2014, , .		3
43	Decision-Making Guidance for Culvert Rehabilitation and Replacement Using Trenchless Techniques. , 2015, , .		3
44	Consequence of Failure of Sewers (COFS) Model for Risk-Based Asset Management Using Analytical Hierarchy Process. , 2018, , .		3
45	Comparison of Technologies for Condition Assessment of Small-Diameter Ductile Iron Water Pipes. Journal of Pipeline Systems Engineering and Practice, 2020, 11, 04020039.	1.6	3
46	Experimental and numerical analysis of the assembly and disassembly of an interlocking joint with large diameter pipe applications. Tunnelling and Underground Space Technology, 2020, 98, 103332.	6.2	3
47	Improving the Mechanical Strengths of Hybrid Waste Geopolymer Binders by Short Fiber Reinforcement. Arabian Journal for Science and Engineering, 2021, 46, 4781-4789.	3.0	3
48	Demonstration and Evaluation of Innovative Wastewater Main Rehabilitation Technologies. Water Intelligence Online, 0, 13, .	0.3	3
49	Impacts of emergencies on water and wastewater systems in congested urban areas. Waterlines, 2013, 32, 74-86.	0.4	3
50	Rapid curing prospects of geopolymer cementitious composite using frontal polymerization of methyl methacrylate monomer. Construction and Building Materials, 2021, 309, 125198.	7.2	3
51	Styrene Emissions in Steam-Cured CIPP: A Review and Comparison of Multiple Studies. Journal of Pipeline Systems Engineering and Practice, 2022, 13, .	1.6	3
52	Drinking Water Pipelines Defect Coding System. , 2015, , .		2
53	Sustainability Evaluation of Pipe Asset Management Strategies. Procedia Engineering, 2016, 145, 483-490.	1.2	2
54	The Role of Resilience in the Rehabilitation Planning of Water Pipeline Systems. , 2016, , .		2

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55	Using Advanced Computational Modeling to Select the Appropriate Level of Structural Rehabilitation for Ductile Iron Pressure Pipes. , 2017, , .		2
56	Evaluating emerging structural inspection technologies for high-risk cast iron water mains. Tunnelling and Underground Space Technology, 2018, 77, 288-294.	6.2	2
57	Experimental Evaluation of Deteriorated CMPs Retrofitted by Different Non-invasive Approaches. KSCE Journal of Civil Engineering, 2021, 25, 4335.	1.9	2
58	The Path Forward for Pipe Bursting Asbestos Cement Pipe. Proceedings of the Water Environment Federation, 2015, 2015, 129-138.	0.0	2
59	Trenchless Infrastructure Construction Techniques Used in Colombia. Practice Periodical on Structural Design and Construction, 2012, 17, 166-170.	1.3	1
60	Casselberry Asbestos Cement Pipe Bursting Project Moving Forward by Leaving it Behind. Proceedings of the Water Environment Federation, 2014, 2014, 6681-6691.	0.0	1
61	Critical Data Needs Associated with Asbestos Cement Pipe Renewal Methods. Journal of Construction Engineering and Management - ASCE, 2015, 141, 06014009.	3.8	1
62	Productivity Analysis of Lateral CIPP Rehabilitation Process Using Simphony Simulation Modeling. Journal of Pipeline Systems Engineering and Practice, 2018, 9, 04017032.	1.6	1
63	Overview of the Geometric Parameters of a Press-Fit Interlocking Mechanism: Experimental and FEA Analysis of Steel Pipe Joint. , 2018, , .		1
64	Evaluation of the Environmental Sustainability during Fabrication of Commonly Used Pipe Materials. , 2018, , .		1
65	Mechanical Properties of Novel Reinforced Spray in Place Pipe Material With Potential Fully Structural Performance Application. Frontiers in Water, 2021, 3, .	2.3	1
66	Oil spill cleanup using industrial and agricultural waste-based magnetic silica sorbent material: a green approach. Green Chemistry Letters and Reviews, 2021, 14, 634-641.	4.7	1
67	Gaps of Decision Support Models for Pipeline Renewal and Recommendations for Improvement. , 2011, , .		0
68	Retrospective Study of CIPP Liners used for Rehabilitation in Columbus, Ohio and Denver, Colorado. Proceedings of the Water Environment Federation, 2011, 2011, 217-228.	0.0	0
69	Trenchless technologies: Innovative solutions for water main renewal. Journal - American Water Works Association, 2012, 104, 85-88.	0.3	0
70	Multi-Segment Multi-Criteria Method Selection for Buried Pipelines. , 2013, , .		0
71	Rehabilitation of High Consequence Water Mains In Lieu of Replacement. , 2016, , .		0
72	Environmental impact of cured-in-place pipe renewal on an asbestos cement water main. Journal of Water Supply: Research and Technology - AQUA, 2017, 66, 361-366.	1.4	0

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73	Building a Database for Life Cycle Performance Assessment of Water and Wastewater Rehabilitation Technologies. Proceedings of the Water Environment Federation, 2015, 2015, 1-12.	0.0	0
74	Reduction of Carbon Emission Is Optimized During the Life Cycle of Commonly Used Force Main Pipe Materials. Frontiers in Water, 2022, 4, .	2.3	0