

John C Matthews

List of Publications by Year in descending order

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Version: 2024-02-01

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	Styrene Emissions in Steam-Cured CIPP: A Review and Comparison of Multiple Studies. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2022, 13, .	1.6	3
2	Reduction of Carbon Emission Is Optimized During the Life Cycle of Commonly Used Force Main Pipe Materials. <i>Frontiers in Water</i> , 2022, 4, .	2.3	0
3	Improving the Mechanical Strengths of Hybrid Waste Geopolymer Binders by Short Fiber Reinforcement. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 4781-4789.	3.0	3
4	Synergistic utilization of diverse industrial wastes for reutilization in steel production and their geopolymerization potential. <i>Waste Management</i> , 2021, 126, 728-736.	7.4	14
5	An ensemble model based on relevance vector machine and multi-objective salp swarm algorithm for predicting burst pressure of corroded pipelines. <i>Journal of Petroleum Science and Engineering</i> , 2021, 203, 108585.	4.2	38
6	Experimental Evaluation of Deteriorated CMPs Retrofitted by Different Non-invasive Approaches. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 4335.	1.9	2
7	Hybrid machine learning for pullback force forecasting during horizontal directional drilling. <i>Automation in Construction</i> , 2021, 129, 103810.	9.8	19
8	In-situ assessment of soil-root bonding strength to aid in preventing soil erosion. <i>Soil and Tillage Research</i> , 2021, 213, 105140.	5.6	8
9	Mechanical Properties of Novel Reinforced Spray in Place Pipe Material With Potential Fully Structural Performance Application. <i>Frontiers in Water</i> , 2021, 3, .	2.3	1
10	Novel Data-Driven Framework for Predicting Residual Strength of Corroded Pipelines. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021, 12, .	1.6	45
11	Oil spill cleanup using industrial and agricultural waste-based magnetic silica sorbent material: a green approach. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 634-641.	4.7	1
12	Rapid curing prospects of geopolymer cementitious composite using frontal polymerization of methyl methacrylate monomer. <i>Construction and Building Materials</i> , 2021, 309, 125198.	7.2	3
13	Environmental Impact Assessment of the Fabrication of Pipe Rehabilitation Materials. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	1.6	7
14	Experimental and Numerical Study of Cyclic Performance of Reinforced Concrete Exterior Connections with Rectangular-Spiral Reinforcement. <i>Journal of Structural Engineering</i> , 2020, 146, .	3.4	7
15	Comparison of Technologies for Condition Assessment of Small-Diameter Ductile Iron Water Pipes. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, 04020039.	1.6	3
16	Near Real-Time HDD Pullback Force Prediction Model Based on Improved Radial Basis Function Neural Networks. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, 04020042.	1.6	9
17	A hybrid model for monthly water demand prediction: A case study of Austin, Texas. <i>AWWA Water Science</i> , 2020, 2, e1175.	2.1	5
18	Trenchless Construction Technologies for Oil and Gas Pipelines: State-of-the-Art Review. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	3.8	51

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19	Experimental and numerical analysis of the assembly and disassembly of an interlocking joint with large diameter pipe applications. <i>Tunnelling and Underground Space Technology</i> , 2020, 98, 103332.	6.2	3
20	Evaluation of Carbon Footprint of Pipeline Materials during Installation, Operation, and Disposal Phases. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	1.6	9
21	How does trenchless technology make pipeline construction greener? A comprehensive carbon footprint and energy consumption analysis. <i>Journal of Cleaner Production</i> , 2020, 261, 121215.	9.3	22
22	Wastewater Pipe Condition Rating Model Using Multicriteria Decision Analysis. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2019, 145, .	2.6	19
23	Consequence-of-Failure Model for Risk-Based Asset Management of Wastewater Pipes Using AHP. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2019, 10, .	1.6	33
24	Production of geopolymers mortar system containing high calcium biomass wood ash as a partial substitution to fly ash: An early age evaluation. <i>Composites Part B: Engineering</i> , 2019, 174, 106941.	12.0	51
25	Optimal selection of acoustic leak detection techniques for water pipelines using multi-criteria decision analysis. <i>Management of Environmental Quality</i> , 2018, 29, 255-277.	4.3	8
26	Multi-segment trenchless technology method selection algorithm for buried pipelines. <i>Tunnelling and Underground Space Technology</i> , 2018, 73, 295-301.	6.2	8
27	Analysis of risk management methods used in trenchless renewal decision making. <i>Tunnelling and Underground Space Technology</i> , 2018, 72, 272-280.	6.2	11
28	Productivity Analysis of Lateral CIPP Rehabilitation Process Using Symphony Simulation Modeling. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2018, 9, 04017032.	1.6	1
29	Overview of the Geometric Parameters of a Press-Fit Interlocking Mechanism: Experimental and FEA Analysis of Steel Pipe Joint. , 2018, , .		1
30	Consequence of Failure of Sewers (COFS) Model for Risk-Based Asset Management Using Analytical Hierarchy Process. , 2018, , .		3
31	Evaluation of the Environmental Sustainability during Fabrication of Commonly Used Pipe Materials. , 2018, , .		1
32	Evaluation of testing methods for tracking CIPP liners's™ life-cycle performance. <i>Cogent Engineering</i> , 2018, 5, 1463594.	2.2	7
33	Evaluating emerging structural inspection technologies for high-risk cast iron water mains. <i>Tunnelling and Underground Space Technology</i> , 2018, 77, 288-294.	6.2	2
34	Empirical analysis of large diameter water main break consequences. <i>Resources, Conservation and Recycling</i> , 2017, 123, 242-248.	10.8	17
35	Demonstration and Evaluation of Innovative Rehabilitation Technologies for Water Infrastructure Systems. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2017, 8, .	1.6	5
36	Environmental impact of cured-in-place pipe renewal on an asbestos cement water main. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2017, 66, 361-366.	1.4	0

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37	Using Advanced Computational Modeling to Select the Appropriate Level of Structural Rehabilitation for Ductile Iron Pressure Pipes. , 2017, , .		2
38	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
39	Studying the Life-cycle Performance of Gravity Sewer Rehabilitation Liners in North America. Procedia Engineering, 2016, 165, 251-258.	1.2	6
40	Sustainability Evaluation of Pipe Asset Management Strategies. Procedia Engineering, 2016, 145, 483-490.	1.2	2
41	Rehabilitation of High Consequence Water Mains In Lieu of Replacement. , 2016, , .		0
42	The Role of Resilience in the Rehabilitation Planning of Water Pipeline Systems. , 2016, , .		2
43	Disaster Resilience of Critical Water Infrastructure Systems. Journal of Structural Engineering, 2016, 142, .	3.4	43
44	Empirical Analysis of Water-Main Failure Consequences. Procedia Engineering, 2015, 118, 727-734.	1.2	23
45	Drinking Water Pipelines Defect Coding System. , 2015, , .		2
46	Critical Data Needs Associated with Asbestos Cement Pipe Renewal Methods. Journal of Construction Engineering and Management - ASCE, 2015, 141, 06014009.	3.8	1
47	Sewer Rehabilitation Using an Ultraviolet-Cured GFR Cured-in-Place Pipe. Practice Periodical on Structural Design and Construction, 2015, 20, .	1.3	11
48	Decision-Making Guidance for Culvert Rehabilitation and Replacement Using Trenchless Techniques. , 2015, , .		3
49	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
50	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
51	Towards Sustainable Water Supply: Schematic Development of Big Data Collection Using Internet of Things (IoT). Procedia Engineering, 2015, 118, 489-497.	1.2	83
52	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
53	Large-Diameter Sewer Rehabilitation Using a Fiber-Reinforced Cured-in-Place Pipe. Practice Periodical on Structural Design and Construction, 2015, 20, .	1.3	14
54	Social cost impact assessment of pipeline infrastructure projects. Environmental Impact Assessment Review, 2015, 50, 196-202.	9.2	65

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55	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
56	The Path Forward for Pipe Bursting Asbestos Cement Pipe. Proceedings of the Water Environment Federation, 2015, 2015, 129-138.	0.0	2
57	Disaster Resilience of Drinking Water Infrastructure Systems to Multiple Hazards. , 2014, , .		3
58	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
59	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
60	Innovative rehabilitation technology demonstration and evaluation program. Tunnelling and Underground Space Technology, 2014, 39, 73-81.	6.2	19
61	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
62	Current and Emerging Water Main Renewal Technologies. Journal of Infrastructure Systems, 2013, 19, 231-241.	1.8	12
63	Multi-Segment Multi-Criteria Method Selection for Buried Pipelines. , 2013, , .		0
64	Impacts of emergencies on water and wastewater systems in congested urban areas. Waterlines, 2013, 32, 74-86.	0.4	3
65	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
66	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
67	Trenchless Infrastructure Construction Techniques Used in Colombia. Practice Periodical on Structural Design and Construction, 2012, 17, 166-170.	1.3	1
68	Trenchless technologies: Innovative solutions for water main renewal. Journal - American Water Works Association, 2012, 104, 85-88.	0.3	0
69	Impact of Hurricanes and Flooding on Buried Infrastructure. Leadership and Management in Engineering, 2012, 12, 151-156.	0.3	25
70	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
71	Demonstration and evaluation of an innovative water main rehabilitation technology: spray-on polymeric lining. Water Practice and Technology, 2012, 7, .	2.0	4
72	Gaps of Decision Support Models for Pipeline Renewal and Recommendations for Improvement. , 2011, , .		0

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73	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
74	Demonstration and Evaluation of Innovative Wastewater Main Rehabilitation Technologies. Water Intelligence Online, 0, 13, .	0.3	3