

# Bryan W Karney

## List of Publications by Year in descending order

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176  
papers

4,733  
citations

94415

37  
h-index

114455

63  
g-index

177  
all docs

177  
docs citations

177  
times ranked

2766  
citing authors

#	ARTICLE	IF	CITATIONS
1	A selective literature review of transient-based leak detection methods. Journal of Hydro-Environment Research, 2009, 2, 212-227.	2.2	401
2	Energy and Costs of Leaky Pipes: Toward Comprehensive Picture. Journal of Water Resources Planning and Management - ASCE, 2002, 128, 441-450.	2.6	203
3	Velocity Profiles and Unsteady Pipe Friction in Transient Flow. Journal of Water Resources Planning and Management - ASCE, 2000, 126, 236-244.	2.6	166
4	Life-Cycle Energy Use and Greenhouse Gas Emissions Inventory for Water Treatment Systems. Journal of Infrastructure Systems, 2007, 13, 261-270.	1.8	151
5	FSI research in pipeline systems – A review of the literature. Journal of Fluids and Structures, 2015, 57, 277-297.	3.4	145
6	Life-Cycle Energy Analysis of a Water Distribution System. Journal of Infrastructure Systems, 2004, 10, 120-130.	1.8	144
7	Long-term scenario alternatives and their implications: LEAP model application of Panama's electricity sector. Energy Policy, 2014, 68, 146-157.	8.8	130
8	Hydraulic Transient Guidelines for Protecting Water Distribution Systems. Journal - American Water Works Association, 2005, 97, 111-124.	0.3	120
9	Climate Variability and the Frequency of Extreme Temperature Events for Nine Sites across Canada: Implications for Power Usage. Journal of Climate, 1999, 12, 2490-2502.	3.2	99
10	Hydraulic Optimization of Transient Protection Devices Using GA and PSO Approaches. Journal of Water Resources Planning and Management - ASCE, 2006, 132, 44-52.	2.6	84
11	Reservoir operation in assigning optimal multi-crop irrigation areas. Agricultural Water Management, 2007, 90, 149-159.	5.6	83
12	Efficient Calculation of Transient Flow in Simple Pipe Networks. Journal of Hydraulic Engineering, 1992, 118, 1014-1030.	1.5	80
13	Frequency domain analysis of pipe fluid transient behaviour. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 609-622.	1.7	80
14	Numerical methods for modeling transient flow in distribution systems. Journal - American Water Works Association, 2005, 97, 104-115.	0.3	76
15	Investigation of Hydraulic Transients of Two Entrapped Air Pockets in a Water Pipeline. Journal of Hydraulic Engineering, 2013, 139, 949-959.	1.5	76
16	Influence of Entrapped Air Pockets on Hydraulic Transients in Water Pipelines. Journal of Hydraulic Engineering, 2011, 137, 1686-1692.	1.5	74
17	Energy Relations in Transient Closed-Conduit Flow. Journal of Hydraulic Engineering, 1990, 116, 1180-1196.	1.5	73
18	Efficient Inverse Transient Analysis in Series Pipe Systems. Journal of Hydraulic Engineering, 1999, 125, 761-764.	1.5	69

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19	Equivalent Differential Equations in Fixed-Grid Characteristics Method. Journal of Hydraulic Engineering, 1994, 120, 1159-1175.	1.5	66
20	Transients in Distribution Networks: Field Tests and Demand Models. Journal of Hydraulic Engineering, 1995, 121, 218-231.	1.5	66
21	A selected literature review of efficiency improvements in hydraulic turbines. Renewable and Sustainable Energy Reviews, 2015, 51, 18-28.	16.4	66
22	Three-dimensional transient simulation of a prototype pump-turbine during normal turbine shutdown. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 520-537.	1.7	65
23	Numerical modeling of the effects of roughness on flow and eddy formation in fractures. Journal of Rock Mechanics and Geotechnical Engineering, 2017, 9, 105-115.	8.1	64
24	Surface breakup of a non-turbulent liquid jet injected into a high pressure gaseous crossflow. International Journal of Multiphase Flow, 2016, 80, 100-117.	3.4	57
25	Leak Size, Detectability and Test Conditions in Pressurized Pipe Systems. Water Resources Management, 2014, 28, 4583-4598.	3.9	56
26	Impacts of Leaks on Energy Consumption in Pumped Systems with Storage. Journal of Water Resources Planning and Management - ASCE, 2005, 131, 146-155.	2.6	53
27	Reviewing and critiquing published approaches to the sustainability assessment of hydropower. Renewable and Sustainable Energy Reviews, 2017, 67, 225-234.	16.4	49
28	Dynamic Behavior of Entrapped Air Pocket in a Water Filling Pipeline. Journal of Hydraulic Engineering, 2018, 144, .	1.5	49
29	Phenomenon of White Mist in Pipelines Rapidly Filling with Water with Entrapped Air Pockets. Journal of Hydraulic Engineering, 2013, 139, 1041-1051.	1.5	48
30	Transient Analysis of Water Distribution Systems. Journal - American Water Works Association, 1990, 82, 62-70.	0.3	46
31	Life-Cycle Inventory of Energy Use and Greenhouse Gas Emissions for Two Hydropower Projects in China. Journal of Infrastructure Systems, 2007, 13, 271-279.	1.8	45
32	A scenario based approach to designing electricity grids with high variable renewable energy penetrations in Ontario, Canada: Development and application of the SILVER model. Energy, 2017, 138, 185-196.	8.8	45
33	Flexible Discretization Algorithm for Fixed-Grid MOC in Pipelines. Journal of Hydraulic Engineering, 1997, 123, 1004-1011.	1.5	43
34	Life-Cycle Perspective on Residential Water Conservation Strategies. Journal of Infrastructure Systems, 2010, 16, 40-49.	1.8	43
35	Pipeline leak localization using matched-field processing incorporating prior information of modeling error. Mechanical Systems and Signal Processing, 2020, 143, 106849.	8.0	42
36	Transient Modeling of a Full-Scale Distribution System: Comparison with Field Data. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 173-182.	2.6	41

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37	Suspended sediment concentration and deformation of riverbed in a frazil jammed reach. Canadian Journal of Civil Engineering, 2000, 27, 1120-1129.	1.3	40
38	Pressure Standards in Water Distribution Systems: Reflection on Current Practice with Consideration of Some Unresolved Issues. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	40
39	The Challenge of Air Valves: A Selective Critical Literature Review. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	39
40	Modeling Low Velocity/High Dispersion Flow in Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 1996, 122, 218-221.	2.6	38
41	Incipient Motion of Non-Cohesive Sediment under Ice Cover " An Experimental Study. Journal of Hydrodynamics, 2008, 20, 117-124.	3.2	37
42	The need for comprehensive transient analysis of distribution systems. Journal - American Water Works Association, 2007, 99, 112-123.	0.3	36
43	Rigid-plug elastic-water model for transient pipe flow with entrapped air pocket. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 799-803.	1.7	36
44	CFD Approach for Column Separation in Water Pipelines. Journal of Hydraulic Engineering, 2016, 142, .	1.5	36
45	Fluid transients and pipeline optimization using GA and PSO: the diameter connection. Urban Water Journal, 2004, 1, 167-176.	2.1	35
46	Field Investigation of Frazil Jam Evolution: A Case Study. Journal of Hydraulic Engineering, 2002, 128, 781-787.	1.5	34
47	Cross Correlation of Demands in Water Distribution Network Design. Journal of Water Resources Planning and Management - ASCE, 2007, 133, 137-144.	2.6	33
48	Encouraging Effective Air Management in Water Pipelines: A Critical Review. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	33
49	An Overview of Transient Fault Detection Techniques. Applied Condition Monitoring, 2017, , 13-37.	0.4	33
50	Energy Estimates for Discretization Errors in Water Hammer Problems. Journal of Hydraulic Engineering, 1998, 124, 384-393.	1.5	32
51	Optimal design and operation of irrigation pumping stations using mathematical programming and Genetic Algorithm (GA). Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 237-246.	1.7	32
52	Transient-based leak detection in the frequency domain considering fluid-structure interaction and viscoelasticity. Mechanical Systems and Signal Processing, 2021, 153, 107500.	8.0	32
53	Variation in water level under ice-jammed condition " field investigation and experimental study. Hydrology Research, 2005, 36, 65-84.	2.7	29
54	How severe can transients be after a sudden depressurization?. Journal - American Water Works Association, 2012, 104, E243.	0.3	28

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55	Numerical modelling of flow and transport in rough fractures. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2014, 6, 535-545.	8.1	28
56	Energy Metrics for Water Distribution System Assessment: Case Study of the Toronto Network. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2015, 141, .	2.6	26
57	System design and operation for integrating variable renewable energy resources through a comprehensive characterization framework. <i>Renewable Energy</i> , 2017, 113, 1019-1032.	8.9	26
58	In-line check valves for water hammer control. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2007, 45, 547-554.	1.7	23
59	Transient performance of a dual disc check valve during the opening period. <i>Annals of Nuclear Energy</i> , 2017, 101, 15-22.	1.8	23
60	Modelling the advection equation under water hammer conditions. <i>Urban Water Journal</i> , 2004, 1, 97-112.	2.1	22
61	Stochastic Analysis of Water Hammer and Applications in Reliability-Based Structural Design for Hydro Turbine Penstocks. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 1509-1521.	1.5	22
62	Systematic Surge Protection for Worst-Case Transient Loadings in Water Distribution Systems. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 218-223.	1.5	21
63	An Open-Access Web-Based Tool to Access Global, Hourly Wind and Solar PV Generation Time-Series Derived from the MERRA Reanalysis Dataset. <i>Energies</i> , 2017, 10, 1007.	3.1	20
64	Guidelines for Transient Analysis in Water Transmission and Distribution Systems. , 0, , .		18
65	Water Distribution System Performance Metrics. <i>Procedia Engineering</i> , 2014, 89, 363-369.	1.2	18
66	Column separation and rejoinder during rapid pipeline filling induced by a partial flow blockage. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 693-704.	1.7	18
67	Performance Index for Water Distribution Networks under Multiple Loading Conditions. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	17
68	An Overview of the Numerical Approaches to Water Hammer Modelling: The Ongoing Quest for Practical and Accurate Numerical Approaches. <i>Water (Switzerland)</i> , 2021, 13, 1597.	2.7	17
69	Charts for water hammer in pipelines resulting from valve closure from full opening only. <i>Canadian Journal of Civil Engineering</i> , 1985, 12, 241-264.	1.3	16
70	Virtual testing for modal and damping ratio identification of submerged structures using the PolyMAX algorithm with two-way fluid-structure Interactions. <i>Journal of Fluids and Structures</i> , 2015, 54, 548-565.	3.4	16
71	Influence of impeller-tongue interaction on the unsteady cavitation behavior in a centrifugal pump. <i>Engineering Computations</i> , 2016, 33, 171-183.	1.4	16
72	Water Column Separation and Cavity Collapse for Pipelines Protected with Air Vacuum Valves: Understanding the Essential Wave Processes. <i>Journal of Hydraulic Engineering</i> , 2017, 143, 04016083.	1.5	16

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73	Expulsion of Entrapped Air in a Rapidly Filling Horizontal Pipe. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	1.5	16
74	A 2-D transient multicomponent simulation model: Application to pipe wall corrosion. <i>Journal of Hydro-Environment Research</i> , 2007, 1, 56-69.	2.2	15
75	Negative pressures in full-scale distribution system: field investigation, modelling, estimation of intrusion volumes and risk for public health. <i>Drinking Water Engineering and Science</i> , 2010, 3, 101-106.	0.8	15
76	Micro hydroelectric energy recovery in municipal water systems: A case study for Vancouver. <i>Urban Water Journal</i> , 2015, 12, 678-690.	2.1	15
77	Influence of Potential Future Sea-Level Rise on Tides in the China Sea. <i>Journal of Coastal Research</i> , 2017, 331, 105-117.	0.3	15
78	Intrinsic relationship between energy consumption, pressure, and leakage in water distribution systems. <i>Urban Water Journal</i> , 2017, 14, 515-521.	2.1	15
79	Numerical investigation of rapid filling in bypass pipelines. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 647-656.	1.7	14
80	Extended-Period Analysis with a Transient Model. <i>Journal of Hydraulic Engineering</i> , 2002, 128, 616-624.	1.5	13
81	An experimental study into local scour in a channel caused by a 90° bend. <i>Canadian Journal of Civil Engineering</i> , 2006, 33, 902-911.	1.3	13
82	UV Disinfection of Wastewater and Combined Sewer Overflows. <i>Advances in Experimental Medicine and Biology</i> , 2017, 996, 267-275.	1.6	12
83	The expanding scope of air pollution monitoring can facilitate sustainable development. <i>Science of the Total Environment</i> , 2013, 448, 189-196.	8.0	11
84	Opportunities for increased hydropower diversion at Niagara: An sSWOT analysis. <i>Renewable Energy</i> , 2017, 101, 757-770.	8.9	11
85	A practical overview of unsteady pipe flow modeling: from physics to numerical solutions. <i>Urban Water Journal</i> , 2017, 14, 502-508.	2.1	11
86	Bias in log-transformed frequency distributions. <i>Journal of Hydrology</i> , 1990, 118, 19-37.	5.4	10
87	Valve Closure in Graph-Theoretical Models for Slow Transient Network Analysis. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 304-309.	1.5	10
88	Field Data-Based Methodology for Estimating the Expected Pipe Break Rates of Water Distribution Systems. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	2.6	10
89	Numerical Simulation of a Check Valve Closure Induced by Pump Shutdown. <i>Journal of Hydraulic Engineering</i> , 2018, 144, 06018013.	1.5	10
90	Efficient Valve Representation in Fixed-Grid Characteristics Method. <i>Journal of Hydraulic Engineering</i> , 1997, 123, 709-718.	1.5	9

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91	Pump energy efficiency field testing and benchmarking in Canada. Journal of Water Supply: Research and Technology - AQUA, 2014, 63, 570-577.	1.4	9
92	Predicting Health Risks from Intrusion into Drinking Water Pipes over Time. Journal of Water Resources Planning and Management - ASCE, 2019, 145, .	2.6	9
93	Discussions and Closure: Filling of Pipelines with Undulating Elevation Profiles. Journal of Hydraulic Engineering, 1997, 123, 1170-1174.	1.5	8
94	Velocity Profiles, Unsteady Friction Losses and Transient Modelling. , 1999, , 1.		8
95	Organization and scaling in water supply networks. Physical Review E, 2017, 96, 062317.	2.1	8
96	Energy-Based Evaluation of 1D Unsteady Friction Models for Classic Laminar Water Hammer with Comparison to CFD. Journal of Hydraulic Engineering, 2020, 146, 04019072.	1.5	8
97	Effects of Relaxed Minimum Pipe Diameters on Fire Flow, Cost, and Water Quality Indicators in Drinking Water Distribution Networks. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	8
98	Godunov-Type Solutions for Transient Pipe Flow Implicitly Incorporating Brunone Unsteady Friction. Journal of Hydraulic Engineering, 2021, 147, .	1.5	8
99	Formation and movement of ice accumulation waves under ice cover –an experimental study. Journal of Hydrology and Hydromechanics, 2019, 67, 171-178.	2.0	8
100	The hydrologic cycle: a complex history with continuing pedagogical implications. Water Science and Technology: Water Supply, 2007, 7, 23-31.	2.1	7
101	A transient 2-D water quality model for pipeline systems. Journal of Hydraulic Research/De Recherches Hydrauliques, 2008, 46, 516-525.	1.7	7
102	Comprehensive Evaluation Method of Urban Water Resources Utilization Based on Dynamic Reduct. Water Resources Management, 2012, 26, 2733-2745.	3.9	7
103	Multi-Objective Design Optimization of Branched Pipeline Systems with Analytical Assessment of Fire Flow Failure Probability. Water Resources Management, 2013, 27, 3663-3678.	3.9	7
104	Contaminant intrusion in water distribution systems. Journal - American Water Works Association, 2013, 105, E278.	0.3	7
105	An Energy Approach to Studying Pipe Network Transients. Procedia Engineering, 2014, 89, 1298-1305.	1.2	7
106	Analytical and experimental investigation of chlorine decay in water supply systems under unsteady hydraulic conditions. Journal of Hydroinformatics, 2014, 16, 690-709.	2.4	7
107	Sustainable power and scenic beauty: The Niagara River Water Diversion Treaty and its relevance today. Energy Policy, 2014, 66, 526-536.	8.8	7
108	Assessment of groundwater ingress to a partially pressurized water-conveyance tunnel using a conduit-flow process model: a case study in Iran. Hydrogeology Journal, 2020, 28, 2573-2585.	2.1	7

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109	Local scour around a bridge pier under ice-jammed flow condition – an experimental study. Journal of Hydrology and Hydromechanics, 2021, 69, 275-287.	2.0	7
110	Building an Integrated Water–Land Use Database for Defining Benchmarks, Conservation Targets, and User Clusters. Journal of Water Resources Planning and Management - ASCE, 2015, 141, .	2.6	6
111	Cost Gradient–Based Assessment and Design Improvement Technique for Water Distribution Networks with Varying Loads. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	2.6	6
112	Water Quality and Fire Protection Trade–Offs in Water Distribution Networks. Journal - American Water Works Association, 2019, 111, 44-52.	0.3	6
113	Unsteady friction in transient vertical-pipe flow with trapped air. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 820-834.	1.7	6
114	Effects of Demand, Mixing Fraction, and Rate Coefficient Uncertainty on Water Quality Models. Journal of Water Resources Planning and Management - ASCE, 2020, 146, .	2.6	6
115	Primitive Form Godunov-Type Scheme for Two-Phase Homogeneous Water Hammer Flows. Journal of Hydraulic Engineering, 2020, 146, .	1.5	6
116	A 30–year review of copper pitting corrosion and pinhole leaks: Achievements and research gaps. AWWA Water Science, 2021, 3, e1221.	2.1	6
117	Performance Similarity between Different-Sized Air Exchange Valves. Journal of Hydraulic Engineering, 2021, 147, .	1.5	6
118	Application of Energy Concepts to Groundwater Flow: Time Step Control and Integrated Sensitivity Analysis. Water Resources Research, 1991, 27, 3225-3235.	4.2	5
119	Modified Transformation and Integration of 1D Wave Equations. Journal of Hydraulic Engineering, 1995, 121, 758-760.	1.5	5
120	Artesian Landfill Liner System: Optimization and Numerical Analysis. Journal of Water Resources Planning and Management - ASCE, 1998, 124, 345-356.	2.6	5
121	Leaks and Water Use Representation in Water Distribution System Models: Finding a Working Equivalence. Journal of Hydraulic Engineering, 2009, 135, 234-239.	1.5	5
122	Intrusion Modelling and the Effect of Ground Water Conditions. , 2011, , .		5
123	Integrating Data for Water Demand Management. Procedia Engineering, 2014, 70, 583-591.	1.2	5
124	A Non-oscillatory Preissmann Slot Method Based Numerical Model. Procedia Engineering, 2014, 89, 1366-1373.	1.2	5
125	Comprehensive adaptive modelling of 1-D unsteady pipe network hydraulics. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 263-279.	1.7	5
126	Role and Characterization of Leaks under Transient Conditions. , 2000, , 1.		4



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127	Linking Health Concepts in the Assessment and Evaluation of Water Distribution Systems. Bulletin of Science, Technology and Society, 2005, 25, 247-253.	2.9	4
128	Closure to "Influence of Entrapped Air Pockets on Hydraulic Transients in Water Pipelines" by Ling Zhou, Deyou Liu, Bryan Karney, and Qinfen Zhang. Journal of Hydraulic Engineering, 2013, 139, 107-108.	1.5	4
129	Does the stream power theory have a physical foundation?. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 585-595.	1.7	4
130	Pressure surge control strategies revised. AWWA Water Science, 2020, 2, e1169.	2.1	4
131	The concept of value in sustainable infrastructure systems: a literature review. Environmental Research: Infrastructure and Sustainability, 2021, 1, 022001.	2.3	4
132	Influence of spiral flow on the hydraulic performance of a siphon outlet conduit in an axial flow pump system. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 515-526.	1.7	4
133	Discussion of "Spline Interpolations for Water Hammer Analysis" by I. A. Sibetheros and E. R. Holley (October, 1991, Vol. 117, No. 10). Journal of Hydraulic Engineering, 1992, 118, 1597-1600.	1.5	3
134	Transient Analysis with Time-Decoupled Pumping Station. Journal of Hydraulic Engineering, 1998, 124, 301-306.	1.5	3
135	Closure to "Velocity Profiles and Unsteady Pipe Friction in Transient Flow," by Bruno Brunone, Bryan W. Karney, Michele Mecarelli, and Marco Ferrante July/August 2000, Vol. 126, No. 4, pp. 236-244. Journal of Water Resources Planning and Management - ASCE, 2002, 128, 86-86.	2.6	3
136	Nonreflective Boundary Design via Remote Sensing and Proportional-Integral-Derivative Control Valve. Journal of Hydraulic Engineering, 2011, 137, 1477-1489.	1.5	3
137	Understanding of the Risks of High Pressures Following Rapid Pressurization in Pipelines Containing Entrapped Air Pockets: A Novel Energy Auditing Approach. , 2014, , .		3
138	Analyzing water customer service expectations: A case study of the City of Guelph. Utilities Policy, 2016, 41, 67-76.	4.0	3
139	Exploring the Multifaceted Role of Pumped Storage at Niagara. Journal of Water Resources Planning and Management - ASCE, 2016, 142, 05016007.	2.6	3
140	Individual-level evolutions manifest population-level scaling in complex supply networks. Physical Review E, 2018, 98, .	2.1	3
141	Misbehaving Drinking Water Systems: Risk and the Complex Nature of Failure. Palgrave Studies in Sustainable Business in Association With Future Earth, 2021, , 283-301.	0.8	3
142	Water Resource Management for Iran's Persepolis Complex. , 2010, , 87-102.		3
143	Numerical-based studies on hydraulic vibration of pipe flow in hydropower systems. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 557-567.	1.7	3
144	Charts for water hammer in low head pump discharge lines resulting from water column separation and check valve closure. Canadian Journal of Civil Engineering, 1984, 11, 717-742.	1.3	2

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145	Charts for water hammer in high head pump discharge lines resulting from pump failure and check valve closure. Canadian Journal of Civil Engineering, 1985, 12, 137-149.	1.3	2
146	Discussion of "Influence of Liquid Length Variation in Hydraulic Transients" by E. Cabrera, J. Abreu, R. Perez, and A. Vela (December, 1992, Vol. 118, No. 12). Journal of Hydraulic Engineering, 1994, 120, 661-663.	1.5	2
147	An exploratory approach to teaching gradually varied flow. Journal of Hydro-Environment Research, 2010, 4, 175-180.	2.2	2
148	Exploring the Sensitivity of Fatigue Analysis with Regard to Design Parameters in PVC Pipes Subjected to Cyclic Transient Pressures. Procedia Engineering, 2015, 119, 174-181.	1.2	2
149	Water user survey on expectations of service in Guelph, ON, Canada. Water Practice and Technology, 2015, 10, 767-770.	2.0	2
150	Safely landing water networks during power outages with energy storage. , 2018, , .		2
151	Application of energy concepts to groundwater flow: Adaptive modeling of a leaky aquifer. Water Resources Research, 1993, 29, 515-520.	4.2	1
152	Discussion and Closure: Transients in Distribution Networks: Field Tests and Demand Models. Journal of Hydraulic Engineering, 1997, 123, 473-474.	1.5	1
153	Modeling Surface and Subsurface Runoff in a Forested Watershed. Journal of Hydrologic Engineering - ASCE, 1999, 4, 165-173.	1.9	1
154	Fishing for a New Way to Teach Environmentally Sensitive Engineering Practice. Bulletin of Science, Technology and Society, 2000, 20, 383-392.	2.9	1
155	Water Distribution System Reliability Under a Fire Flow Condition: A Probabilistic Approach. , 2005, , 1.		1
156	Application of Enhanced Rough Set Approach to the Evaluation of Urban Water Resources Utilization: A Case Study of Beijing. , 2010, , .		1
157	Pipeline Optimization Accounting for Transient Conditions: Exploring the Connections between System Configuration, Operation, and Surge Protection. , 2013, , .		1
158	Vibration Analysis of Curved Pipes Conveying Fluid. , 2014, , .		1
159	Application of Transfer Matrix Method to Dynamic Analysis of Pipes With FSI. , 2014, , .		1
160	Closure to "Energy Metrics for Water Distribution System Assessment: Case Study of the Toronto Network" by Rebecca Dziedzic and Bryan W. Karney. Journal of Water Resources Planning and Management - ASCE, 2016, 142, 07016004.	2.6	1
161	Increased hydropower potential at Niagara: a scenario-based analysis. Canadian Journal of Civil Engineering, 2018, 45, 676-683.	1.3	1
162	Conceptual analogy for modelling entrapped air action in hydraulic systems By Sandra C. Martins, Helena M. Ramos, and Ant3nio B. Almeida. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 576-578.	1.7	1

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163	How Larger Lead Scale Particles are Likely to Move in Service Lines. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	2.6	1
164	Developing the next generation of infrastructure engineers. Infrastructure Asset Management, 2021, 8, 155-163.	1.6	1
165	Solute Dispersion and Transport in Pipes under Transient Hydraulic Conditions. , 2001, , .		1
166	Insights and Challenges Associated with Air in Pressurized Water Conveyance Systems. , 2022, , .		1
167	Urban Water Journal: Special Issue on Transients. Urban Water Journal, 2004, 1, 69-70.	2.1	0
168	Closure to "Energy and Costs of Leaky Pipes: Toward Comprehensive Picture" by Andrew F. Colombo and Bryan W. Karney. Journal of Water Resources Planning and Management - ASCE, 2004, 130, 181-183.	2.6	0
169	Multi-Objective Design Optimization of Branched Pipeline Systems: Analytical Probabilistic Assessment of Fire Flow Failure. , 2011, , .		0
170	Discussion of "Water Hammer in a Horizontal Rectangular Conduit Containing Air-Water Two-Phase Slug Flow" by Amin Eyhavand-Koohzadi, Seyed M. Borghei, and Abdorreza Kabiri-Samani. Journal of Hydraulic Engineering, 2017, 143, 07017009.	1.5	0
171	Distortions From a Simplified Approach to Fatigue Analysis in PVC Pipes. Journal - American Water Works Association, 2018, 110, E60.	0.3	0
172	Experimental and numerical simulation of bidirectional propagation of an air cavity. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 638-652.	1.7	0
173	Discussion of "Skeletonizing Pipes in Series within Urban Water Distribution Systems Using a Transient-Based Method" by Yuan Huang, Feifei Zheng, Huan-Feng Duan, Tuqiao Zhang, Xinlei Guo, and Qingzhou Zhang. Journal of Hydraulic Engineering, 2020, 146, 07020003.	1.5	0
174	Warton Distribution System Hydraulic Model. , 2001, , .		0
175	Analytical Analysis of Linear Discretization Strategies in Unsteady Open Channel Flows. , 1995, , 888-893.		0
176	Analytical Implementation and Prediction of Hydraulic Characteristics for a Francis Turbine Runner Operated at BEP. Sustainability, 2022, 14, 1965.	3.2	0