Silvia Meniconi

List of Publications by Year
in descending order

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104	2,616	147726	214721
papers	citations	31	47
		h-index	g-index

109	109	109	757
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Efficient leak detection in single and branched polymeric pipeline systems by transient wave analysis. Mechanical Systems and Signal Processing, 2022, 162, 108084.	4.4	14
2	Transient Energy Analysis in Water-Filled Viscoelastic Pipelines. Journal of Hydraulic Engineering, 2022, 148, .	0.7	6
3	Stochastic Approach for the Analysis of Demand Induced Transients in Real Water Distribution Systems. Journal of Water Resources Planning and Management - ASCE, 2022, 148, .	1.3	13
4	Improvement of the Carrying Capacity of Cast Iron Pipes Due to the Coating Lapping Process. Journal of Pipeline Systems Engineering and Practice, 2022, 13, .	0.9	1
5	Monitoring the Water Mass Balance Variability of Small Shallow Lakes by an ERA5-Land Reanalysis and Water Level Measurement-Based Model. An Application to the Trasimeno Lake, Italy. Atmosphere, 2022, 13, 949.	1.0	3
6	FRF-based transient wave analysis for the viscoelastic parameters identification and leak detection in water-filled plastic pipes. Mechanical Systems and Signal Processing, 2021, 146, 107056.	4.4	41
7	Experimental analysis of the water consumption effect on the dynamic behaviour of a real pipe network. Journal of Hydraulic Research/De Recherches Hydrauliques, 2021, 59, 477-487.	0.7	14
8	Discussion of â€œTheoretical Investigation of Leakâ€™s Impact on Normal Modes of a Water-Filled Pipe: Small to Large Leak Impedanceâ€•by Jingrong Lin, Xun Wang, and Mohamed S. Ghidaoui. Journal of Hydraulic Engineering, 2021, 147, .	0.7	1
9	Transient Response Analysis of Branched Pipe Systems toward a Reliable Skeletonization. Journal of Water Resources Planning and Management - ASCE, 2021, 147, .	1.3	16
10	A Model for Simulating Transients in Looped Viscoelastic Pipe Systems. Preliminary Results. Applied Condition Monitoring, 2021, , 183-190.	0.4	0
11	A Nelderâ€“Mead algorithm-based inverse transient analysis for leak detection and sizing in a single pipe. Water Science and Technology: Water Supply, 2021, 21, 1580-1593.	1.0	5
12	Leak Detection in a Real Transmission Main Through Transient Tests: Deeds and Misdeeds. Water Resources Research, 2021, 57, e2020WR027838.	1.7	56
13	Characterisation of low-Reynolds number flow through an orifice: CFD results vs. laboratory data. Journal of Hydroinformatics, 2021, 23, 709-723.	1.1	5
14	Design criteria and performance analysis of a smart portable device for leak detection in water transmission mains. Measurement: Journal of the International Measurement Confederation, 2021, 183, 109844.	2.5	39
15	Discussion of â€œEffect of Boundary on Water Hammer Wave Attenuation and Shapeâ€•by Huade Cao, Ioan Nistor, and Magdi Mohareb. Journal of Hydraulic Engineering, 2021, 147, 07021010.	0.7	0
16	Simulation of the Water Table Elevation in Shallow Unconfined Aquifers by means of the ERA5 Soil Moisture Dataset: The Umbria Region Case Study. Earth Interactions, 2021, 25, 15-32.	0.7	2
17	Multistage Frequency-Domain Transient-Based Method for the Analysis of Viscoelastic Parameters of Plastic Pipes. Journal of Hydraulic Engineering, 2020, 146, .	0.7	31
18	Experimental Investigation of the Interaction of Fluid Transients with an In-Line Air Pocket. Journal of Hydraulic Engineering, 2020, 146, .	0.7	11

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19	Checking Procedure of the Trieste (Italy) Subsea Pipeline by Transient Tests. Preliminary Results. Proceedings (mdpi), 2020, 48, 2.	0.2	1
20	Interdependence of flow and pipe characteristics in transient induced contamination intrusion: numerical analysis. Journal of Hydroinformatics, 2020, 22, 473-490.	1.1	9
21	Estimating viscoelasticity of pipes with unknown leaks. Mechanical Systems and Signal Processing, 2020, 143, 106821.	4.4	15
22	Experimental verification of the accuracy and robustness of Area Reconstruction Method for Pressurized Water Pipe System. Journal of Hydraulic Engineering, 2020, 146, .	0.7	15
23	Pipeline leak localization using matched-field processing incorporating prior information of modeling error. Mechanical Systems and Signal Processing, 2020, 143, 106849.	4.4	42
24	Time-domain Analysis of Laboratory Experiments on the Transient Pressure Damping in a Leaky Polymeric Pipe. Water Resources Management, 2020, 34, 501-514.	1.9	31
25	Objective Functions for Transient-Based Pipeline Leakage Detection in a Noisy Environment: Least Square and Matched-Filter. Journal of Water Resources Planning and Management - ASCE, 2019, 145, 04019042.	1.3	34
26	Experimental Validation of Existing Numerical Models for the Interaction of Fluid Transients With In-Line Air Pockets. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	0.8	12
27	Matched-field processing for leak localization in a viscoelastic pipe: An experimental study. Mechanical Systems and Signal Processing, 2019, 124, 459-478.	4.4	67
28	Radial Pressure Wave Behavior in Transient Laminar Pipe Flows Under Different Flow Perturbations. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	13
29	Bragg-Type Resonance in Blocked Pipe System and Its Effect on the Eigenfrequency Shift. Journal of Hydraulic Engineering, 2018, 144, .	0.7	12
30	Efficient Computational Fluid Dynamics Model for Transient Laminar Flow Modeling: Pressure Wave Propagation and Velocity Profile Changes. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	22
31	Numerical analysis of the transient pressure damping in a single polymeric pipe with a leak. Urban Water Journal, 2018, 15, 760-768.	1.0	53
32	On the Role of Minor Branches, Energy Dissipation, and Small Defects in the Transient Response of Transmission Mains. Water (Switzerland), 2018, 10, 187.	1.2	40
33	Advanced Hydroinformatic Techniques for the Simulation and Analysis of Water Supply and Distribution Systems. Water (Switzerland), 2018, 10, 440.	1.2	2
34	An approximate inverse scattering technique for reconstructing blockage profiles in water pipelines using acoustic transients. Journal of the Acoustical Society of America, 2018, 143, EL322-EL327.	0.5	31
35	Local and Integral Energy-Based Evaluation for the Unsteady Friction Relevance in Transient Pipe Flows. Journal of Hydraulic Engineering, 2017, 143, .	0.7	47
36	Safe Transients for Pipe Survey in a Real Transmission Main by Means of a Portable Device: The Case Study of the Trento (I) Supply System. Procedia Engineering, 2017, 186, 228-235.	1.2	11

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37	Hydraulic characterization and transient response of pressure reducing valves: laboratory experiments. Journal of Hydroinformatics, 2017, 19, 798-810.	1.1	29
38	CFD and 1D Approaches for the Unsteady Friction Analysis of Low Reynolds Number Turbulent Flows. Journal of Hydraulic Engineering, 2017, 143, .	0.7	35
39	Groundwater Supply and Climate Change Management by Means of Global Atmospheric Datasets. Preliminary Results. Procedia Engineering, 2017, 186, 420-427.	1.2	7
40	Aqualibrium Competition: Laboratory Data and EPAnet Simulations. Procedia Engineering, 2017, 186, 522-529.	1.2	2
41	Experimental Study of the Eigenfrequency Shift Mechanism in a Blocked Pipe System. Journal of Hydraulic Engineering, 2017, 143, .	0.7	21
42	Legionella Survey in the Plumbing System of a Sparse Academic Campus: A Case Study at the University of Perugia. Water (Switzerland), 2017, 9, 662.	1.2	2
43	Editorial: Hydroinformatics for water distribution systems analysis and management. Journal of Hydroinformatics, 2016, 18, 1-3.	1.1	0
44	Pressure Reducing Valve Characterization for Pipe System Management. Procedia Engineering, 2016, 162, 455-462.	1.2	12
45	Numerical transient analysis of random leakage in time and frequency domains. Civil Engineering and Environmental Systems, 2016, 33, 70-84.	0.4	9
46	Relevance of Pipe Period on Kelvin-Voigt Viscoelastic Parameters: 1D and 2D Inverse Transient Analysis. Journal of Hydraulic Engineering, 2016, 142, .	0.7	46
47	Mechanism of interaction of pressure waves at a discrete partial blockage. Journal of Fluids and Structures, 2016, 62, 33-45.	1.5	31
48	Delineation of Wellhead Protection Areas in the Umbria Region. 1. A simplified Procedure. Procedia Environmental Sciences, 2015, 25, 90-95.	1.3	4
49	A stochastic approach for extended partial blockage detection in viscoelastic pipelines: numerical and laboratory experiments. Journal of Water Supply: Research and Technology - AQUA, 2015, 64, 583-595.	0.6	15
50	Hydraulic Characterization of PVC-O Pipes by Means of Transient Tests. Procedia Engineering, 2015, 119, 263-269.	1.2	4
51	Delineation of Wellhead Protection Areas in the Umbria region. 2. Validation of the Proposed Procedure. Procedia Environmental Sciences, 2015, 25, 96-103.	1.3	4
52	Water distribution network analysis accounting for different background leakage models. Procedia Engineering, 2015, 119, 680-689.	1.2	10
53	Anomaly pre-localization in distributionâ€“transmission mains by pump trip: preliminary field tests in the Milan pipe system. Journal of Hydroinformatics, 2015, 17, 377-389.	1.1	113
54	Leak-Induced Pressure Decay During Transients in Viscoelastic Pipes. Preliminary Results. Procedia Engineering, 2015, 119, 243-252.	1.2	8

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55	Transient Effects of Self-adjustment of Pressure Reducing Valves. Procedia Engineering, 2015, 119, 1030-1038.	1.2	14
56	Discussion of â€œSingle-Event Leak Detection in Pipeline Using First Three Resonant Responsesâ€•by Jinzhe Gong, Martin F. Lambert, Angus R. Simpson, and Aaron C. Zecchin. Journal of Hydraulic Engineering, 2015, 141, 07014019.	0.7	0
57	Corrigendum to "Preface: CCWI 2013" published in Drink. Water Eng. Sci., 7, 99â€“100, 2014. Drinking Water Engineering and Science, 2015, 8, 1-1.	0.8	0
58	Transmission Main Survey by Transient Tests: The Case of Villanova Plan in Mantova (I). Procedia Engineering, 2014, 89, 1343-1349.	1.2	1
59	Effect of Uncertainty Demand Location on Transient behavior of WDS. Procedia Engineering, 2014, 89, 1321-1328.	1.2	3
60	Leak Size, Detectability and Test Conditions in Pressurized Pipe Systems. Water Resources Management, 2014, 28, 4583-4598.	1.9	56
61	Detection and sizing of extended partial blockages in pipelines by means of a stochastic successive linear estimator. Journal of Hydroinformatics, 2014, 16, 248-258.	1.1	28
62	The Skeletonization of Milan WDS on Transients Due to Pumping Switching off: Preliminary Results. Procedia Engineering, 2014, 70, 1131-1136.	1.2	2
63	The Leak Law: From Local to Global Scale. Procedia Engineering, 2014, 70, 651-659.	1.2	15
64	Energy dissipation and pressure decay during transients in viscoelastic pipes with an in-line valve. Journal of Fluids and Structures, 2014, 45, 235-249.	1.5	58
65	Two-Dimensional Features of Viscoelastic Models of Pipe Transients. Journal of Hydraulic Engineering, 2014, 140, 04014036.	0.7	55
66	Further Developments in Rapidly Decelerating Turbulent Pipe Flow Modeling. Journal of Hydraulic Engineering, 2014, 140, .	0.7	51
67	Local and Global Leak Laws. Water Resources Management, 2014, 28, 3761-3782.	1.9	32
68	Real Data Analysis and Efficiency of the TEA Mantova Casale (Italy) Variable-speed Pumping Station. Procedia Engineering, 2014, 70, 248-255.	1.2	7
69	The Characterization of Milan WDS by Pumping Switching off: Field Test Assesment. Procedia Engineering, 2014, 70, 201-208.	1.2	8
70	A Stochastic Tool for Determining the Presence of Partial Blockages in Viscoelastic Pipelines: First Experimental Results. Procedia Engineering, 2014, 70, 1112-1120.	1.2	9
71	The Dependence of District Minimum Night Flow on Pressure Head: The Case Study of Lenola. Procedia Engineering, 2014, 89, 1224-1230.	1.2	2
72	Functioning conditions of the Casale pumping station in Mantova, Italy. Drinking Water Engineering and Science, 2014, 7, 93-97.	0.8	2

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73	Preface: CCWI 2013. Drinking Water Engineering and Science, 2014, 7, 99-100.	0.8	0
74	Single-Event Leak Detection in Pipeline Using First Three Resonant Responses. Journal of Hydraulic Engineering, 2013, 139, 645-655.	0.7	60
75	Effectiveness Assessment of Pipe Systems by Means of Transient Test-based Techniques. Procedia Environmental Sciences, 2013, 19, 814-822.	1.3	11
76	Experimental Investigation of Coupled Frequency and Time-Domain Transient Testâ€“Based Techniques for Partial Blockage Detection in Pipelines. Journal of Hydraulic Engineering, 2013, 139, 1033-1040.	0.7	96
77	Diagnosis of Pipe Systems by means of a Stochastic Successive Linear Estimator. Water Resources Management, 2013, 27, 4637-4654.	1.9	13
78	Leak behaviour in pressurized PVC pipes. Water Science and Technology: Water Supply, 2013, 13, 987-992.	1.0	24
79	Experimental investigation of leak hydraulics. Journal of Hydroinformatics, 2013, 15, 666-675.	1.1	19
80	Discussion of â€œCase Studies of Leak Detection and Location in Water Pipe Systems by Inverse Transient Analysisâ€•by DÃdia Covas and Helena Ramos. Journal of Water Resources Planning and Management - ASCE, 2013, 139, 126-127.	1.3	2
81	Diagnosis of pipe systems by the SLE: first results. Water Science and Technology: Water Supply, 2013, 13, 958-965.	1.0	4
82	Numerical and experimental investigation of leaks in viscoelastic pressurized pipe flow. Drinking Water Engineering and Science, 2013, 6, 11-16.	0.8	25
83	Equivalent hydraulic resistance to simulate pipes subject to diffuse outflows. Journal of Hydroinformatics, 2012, 14, 65-74.	1.1	8
84	Is the leak headâ€“discharge relationship in polyethylene pipes a bijective function?. Journal of Hydraulic Research/De Recherches Hydrauliques, 2012, 50, 409-417.	0.7	45
85	How severe can transients be after a sudden depressurization?. Journal - American Water Works Association, 2012, 104, E243.	0.2	28
86	Water-hammer pressure waves interaction at cross-section changes in series in viscoelastic pipes. Journal of Fluids and Structures, 2012, 33, 44-58.	1.5	97
87	Transient hydrodynamics of in-line valves in viscoelastic pressurized pipes: long-period analysis. Experiments in Fluids, 2012, 53, 265-275.	1.1	48
88	Surfactant effect on titanium dioxide photosensitized oxidation of 4-dodecyloxybenzyl alcohol. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 229, 53-59.	2.0	17
89	Unsteady friction and visco-elasticity in pipe fluid transients. Journal of Hydraulic Research/De Recherches Hydrauliques, 2011, 49, 402-403.	0.7	6
90	In-Line Pipe Device Checking by Short-Period Analysis of Transient Tests. Journal of Hydraulic Engineering, 2011, 137, 713-722.	0.7	72

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91	Leakage and Pipe Materials. , 2011, , .		0
92	Transient tests for locating and sizing illegal branches in pipe systems. Journal of Hydroinformatics, 2011, 13, 334-345.	1.1	55
93	Experimental Evidence of Hysteresis in the Head-Discharge Relationship for a Leak in a Polyethylene Pipe. Journal of Hydraulic Engineering, 2011, 137, 775-780.	0.7	63
94	Selective photocatalytic oxidation at TiO2/Ti anodes of 4-methoxybenzyl alcohol to the corresponding benzaldehyde in â€œgreenâ€•conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 180-184.	2.0	7
95	Small Amplitude Sharp Pressure Waves to Diagnose Pipe Systems. Water Resources Management, 2011, 25, 79-96.	1.9	89
96	Fast Transients As a Tool for Partial Blockage Detection in Pipes: First Experimental Results. , 2011, , .		3
97	Potential of Transient Tests to Diagnose Real Supply Pipe Systems: What Can Be Done with a Single Extemporary Test. Journal of Water Resources Planning and Management - ASCE, 2011, 137, 238-241.	1.3	51
98	Leak detection in branched pipe systems coupling wavelet analysis and a Lagrangian model. Journal of Water Supply: Research and Technology - AQUA, 2009, 58, 95-106.	0.6	84
99	Leak-edge detection. Journal of Hydraulic Research/De Recherches Hydrauliques, 2009, 47, 233-241.	0.7	50
100	In-Line Partially Closed Valves: How to Detect by Transient Tests. , 2009, , .		7
101	Discussion of â€œDetection of Partial Blockage in Single Pipelinesâ€•by P. K. Mohapatra, M. H. Chaudhry, A. A. Kassem, and J. Moloo. Journal of Hydraulic Engineering, 2008, 134, 872-874.	0.7	38
102	Portable pressure waveâ€maker for leak detection and pipe system characterization. Journal - American Water Works Association, 2008, 100, 108-116.	0.2	71
103	Wavelets for the Analysis of Transient Pressure Signals for Leak Detection. Journal of Hydraulic Engineering, 2007, 133, 1274-1282.	0.7	109
104	Engineering task models. , 0, , .		4