

Mauro De Marchis

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,286
citations

257450

24
h-index

361022

35
g-index

61
all docs

61
docs citations

61
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of the slope of irregularly distributed roughness elements on turbulent wall-bounded flows. <i>Journal of Fluid Mechanics</i> , 2008, 613, 385-394.	3.4	159
2	A model of the filling process of an intermittent distribution network. <i>Urban Water Journal</i> , 2010, 7, 321-333.	2.1	67
3	Energy Recovery in Water Distribution Networks. Implementation of Pumps as Turbine in a Dynamic Numerical Model. <i>Procedia Engineering</i> , 2014, 70, 439-448.	1.2	54
4	Analysis of the impact of intermittent distribution by modelling the network-filling process. <i>Journal of Hydroinformatics</i> , 2011, 13, 358-373.	2.4	49
5	Effects of irregular two-dimensional and three-dimensional surface roughness in turbulent channel flows. <i>International Journal of Heat and Fluid Flow</i> , 2012, 36, 7-17.	2.4	49
6	Energy Saving in Water Distribution Network through Pump as Turbine Generators: Economic and Environmental Analysis. <i>Energies</i> , 2016, 9, 877.	3.1	49
7	Effect of the Junction Angle on Turbulent Flow at a Hydraulic Confluence. <i>Water (Switzerland)</i> , 2018, 10, 469.	2.7	49
8	A coupled Finite Volume–Smoothed Particle Hydrodynamics method for incompressible flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 674-693.	6.6	43
9	Effects of roughness on particle dynamics in turbulent channel flows: a DNS analysis. <i>Journal of Fluid Mechanics</i> , 2014, 739, 465-478.	3.4	41
10	Interaction between turbulent structures and particles in roughened channel. <i>International Journal of Multiphase Flow</i> , 2016, 78, 117-131.	3.4	40
11	Bench scale continuous coagulation-flocculation of saline industrial wastewater contaminated by hydrocarbons. <i>Journal of Water Process Engineering</i> , 2020, 34, 101156.	5.6	40
12	Numerical observations of turbulence structure modification in channel flow over 2D and 3D rough walls. <i>International Journal of Heat and Fluid Flow</i> , 2015, 56, 108-123.	2.4	39
13	The Effect of Damage Functions on Urban Flood Damage Appraisal. <i>Procedia Engineering</i> , 2014, 70, 1251-1260.	1.2	35
14	Large eddy simulations of roughened channel flows: Estimation of the energy losses using the slope of the roughness. <i>Computers and Fluids</i> , 2016, 140, 148-157.	2.5	35
15	Experimental and Numerical Study on the Flow Field and Friction Factor in a Pressurized Corrugated Pipe. <i>Journal of Hydraulic Engineering</i> , 2015, 141, .	1.5	31
16	Implementation of pressure reduction valves in a dynamic water distribution numerical model to control the inequality in water supply. <i>Journal of Hydroinformatics</i> , 2014, 16, 207-217.	2.4	30
17	Experimental Evidence of Leaks in Elastic Pipes. <i>Water Resources Management</i> , 2016, 30, 2005-2019.	3.9	30
18	Turbulence structures over irregular rough surfaces. <i>Journal of Turbulence</i> , 2010, 11, N3.	1.4	29

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19	Pump as turbine implementation in a dynamic numerical model: cost analysis for energy recovery in water distribution network. <i>Journal of Hydroinformatics</i> , 2015, 17, 347-360.	2.4	29
20	Modelling of E. coli distribution in coastal areas subjected to combined sewer overflows. <i>Water Science and Technology</i> , 2013, 68, 1123-1136.	2.5	28
21	Pumps as turbines (PATs) in water distribution networks affected by intermittent service. <i>Journal of Hydroinformatics</i> , 2014, 16, 259-271.	2.4	27
22	Three-dimensional numerical simulations on wind- and tide-induced currents: The case of Augusta Harbour (Italy). <i>Computers and Geosciences</i> , 2014, 72, 65-75.	4.2	27
23	Statistics of inertial particle deviation from fluid particle trajectories in horizontal rough wall turbulent channel flow. <i>International Journal of Heat and Fluid Flow</i> , 2016, 60, 1-11.	2.4	26
24	The effect of geometrical parameters on the discharge capacity of meandering compound channels. <i>Advances in Water Resources</i> , 2008, 31, 1662-1673.	3.8	24
25	Leakage Estimation in Water Distribution Network: Effect of the Shape and Size Cracks. <i>Water Resources Management</i> , 2019, 33, 1167-1183.	3.9	24
26	Large Eddy Simulations of Rough Turbulent Channel Flows Bounded by Irregular Roughness: Advances Toward a Universal Roughness Correlation. <i>Flow, Turbulence and Combustion</i> , 2020, 105, 627-648.	2.6	24
27	Wind- and tide-induced currents in the Stagnone lagoon (Sicily). <i>Environmental Fluid Mechanics</i> , 2012, 12, 81-100.	1.6	22
28	PANORMUS-SPH. A new Smoothed Particle Hydrodynamics solver for incompressible flows. <i>Computers and Fluids</i> , 2015, 106, 185-195.	2.5	19
29	Turbulence modulation by micro-particles in smooth and rough channels. <i>Physics of Fluids</i> , 2016, 28, 115101.	4.0	18
30	A mathematical model to evaluate apparent losses due to meter under-registration in intermittent water distribution networks. <i>Water Science and Technology: Water Supply</i> , 2013, 13, 914-923.	2.1	15
31	Pressure-Discharge Law of Local Tanks Connected to a Water Distribution Network: Experimental and Mathematical Results. <i>Water (Switzerland)</i> , 2015, 7, 4701-4723.	2.7	14
32	Characterization and Treatment Proposals of Shipboard Slop Wastewater Contaminated by Hydrocarbons. <i>Water (Switzerland)</i> , 2017, 9, 581.	2.7	13
33	Large eddy simulation of inertial particles dispersion in a turbulent gas-particle channel flow bounded by rough walls. <i>Acta Mechanica</i> , 2020, 231, 3925-3946.	2.1	13
34	Large eddy simulations on the effect of the irregular roughness shape on turbulent channel flows. <i>International Journal of Heat and Fluid Flow</i> , 2019, 80, 108494.	2.4	12
35	Solid sediment transport in turbulent channel flow over irregular rough boundaries. <i>International Journal of Heat and Fluid Flow</i> , 2017, 65, 114-126.	2.4	11
36	Effect of the contact tank geometry on disinfection efficiency. <i>Journal of Water Process Engineering</i> , 2021, 41, 102035.	5.6	10

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37	Experimental Investigation for Local Tank Inflow Model. <i>Procedia Engineering</i> , 2014, 89, 656-663.	1.2	8
38	A multi-domain approach for smoothed particle hydrodynamics simulations of highly complex flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 340, 956-977.	6.6	8
39	Perforated Baffles for the Optimization of Disinfection Treatment. <i>Water (Switzerland)</i> , 2020, 12, 3462.	2.7	8
40	Effect of roughness on elongated particles in turbulent channel flow. <i>International Journal of Multiphase Flow</i> , 2022, 152, 104065.	3.4	7
41	Definition of Water Meter Substitution Plans based on a Composite Indicator. <i>Procedia Engineering</i> , 2014, 70, 1369-1377.	1.2	5
42	Experimental Evidence of the Discharge Law in Private Tanks Connected to Water Distribution Networks. <i>Procedia Engineering</i> , 2016, 154, 115-122.	1.2	4
43	Experimental analysis of pressure-discharge relationship in a private water supply tank. <i>Journal of Hydroinformatics</i> , 2018, 20, 608-621.	2.4	4
44	Optimization of the design of labyrinth emitter for agriculture irrigation using computational fluid dynamic analysis. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	4
45	A Pressure Monitoring System for Water Distribution Networks Based on Arduino Microcontroller. <i>Water (Switzerland)</i> , 2021, 13, 2321.	2.7	3
46	Large Eddy Simulation of Contact Tanks for Disinfection in Drinking Water Treatment. <i>ERCOTAC Series</i> , 2020, , 503-508.	0.1	2
47	Optimization of management choices of clariflocculation process by means of qualitative multi-criteria analysis. <i>Water Science and Technology</i> , 2020, 81, 1011-1028.	2.5	2
48	Concept of a New Pluviometer for Metering Rainfall Erosivity. <i>Advanced Materials Research</i> , 2012, 452-453, 316-320.	0.3	1
49	On the influence of wall roughness in particle-laden flows. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
50	Preface of the "Symposium on Advanced Engineering Systems and Computer Applications: Theory and Practice" AIP Conference Proceedings, 2016, , .	0.4	1
51	Preface of the Symposium "Advanced Engineering Systems and Computer Applications: Theory and Practice" AIP Conference Proceedings, 2017, , .	0.4	1
52	Editorial: Water and environmental challenges in a changing world: the perspective of the 13th International Conference on Hydroinformatics HIC 2018. <i>Journal of Hydroinformatics</i> , 2020, 22, 1-4.	2.4	1
53	Large Eddy Simulations of Rough Turbulent Channel Flows Bounded by Irregular Roughness: The Role of Geometrical Parameters. <i>ERCOTAC Series</i> , 2020, , 25-31.	0.1	1
54	On the estimation of the roughness function using a logarithmic scaling of the effective slope. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	0

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55	Particle-Laden Turbulent Channel Flow with Wall-Roughness. ERCOFTAC Series, 2015, , 655-661.	0.1	0
56	LES of turbulent channel flow with realistic rough walls. AIP Conference Proceedings, 2015, , .	0.4	0
57	Preface of the symposium "Advanced Engineering Systems and Computer Applications: Theory and Practice" AIP Conference Proceedings, 2018, , .	0.4	0
58	Preface of the Symposium "Advanced Engineering Systems and Computer Applications: Theory and Practice" AIP Conference Proceedings, 2021, , .	0.4	0
59	Effect of the contact tank geometry on disinfection efficiency. AIP Conference Proceedings, 2021, , .	0.4	0
60	Numerical simulation for water loss estimation in water supply pipes: Discharge estimation and deformation analysis. AIP Conference Proceedings, 2021, , .	0.4	0