Sauro Manenti

List of Publications by Year
in descending order

30 papers	483 citations	759233 12 h-index	677142 22 g-index
30 all docs	30 docs citations	30 times ranked	441 citing authors

#	Article	IF	Citations
1	SPH Simulation of Sediment Flushing Induced by a Rapid Water Flow. Journal of Hydraulic Engineering, 2012, 138, 272-284.	1.5	101
2	SPH Modeling of Solid Boundaries Through a Semi-Analytic Approach. Engineering Applications of Computational Fluid Mechanics, 2011, 5, 1-15.	3.1	56
3	SPHERA v.9.0.0: A Computational Fluid Dynamics research code, based on the Smoothed Particle Hydrodynamics mesh-less method. Computer Physics Communications, 2020, 250, 107157.	7.5	40
4	Vajont Disaster: Smoothed Particle Hydrodynamics Modeling of the Postevent 2D Experiments. Journal of Hydraulic Engineering, 2016, 142, .	1.5	38
5	SPH Modeling of Water-Related Natural Hazards. Water (Switzerland), 2019, 11, 1875.	2.7	31
6	WCSPH with Limiting Viscosity for Modeling Landslide Hazard at the Slopes of Artificial Reservoir. Water (Switzerland), 2018, 10, 515.	2.7	30
7	Structural Design and Analysis of Offshore Wind Turbines from a System Point of View. Wind Engineering, 2010, 34, 85-107.	1.9	28
8	Testing an innovative first flush identification methodology against field data from an Italian catchment. Journal of Environmental Management, 2019, 246, 418-425.	7.8	21
9	Hydrodynamic coefficients of yawed cylinders in open-channel flow. Flow Measurement and Instrumentation, 2019, 65, 288-296.	2.0	19
10	Integrated RTDâ€‰â˜â€‰CFD Hydrodynamic Analysis for Performance Assessment of Activated Sludge Reactors. Environmental Processes, 2018, 5, 23-42.	3.5	14
11	Identification and Localization of Hydrodynamic Anomalies in a Real Wastewater Treatment Plant by an Integrated Approach: RTD-CFD Analysis. Environmental Processes, 2020, 7, 563-578.	3.5	14
12	Treatment of aqueous wastes by means of Thermophilic Aerobic Membrane Reactor (TAMR) and nanofiltration (NF): process auditing of a full-scale plant. Environmental Monitoring and Assessment, 2019, 191, 708.	2.7	13
13	SPH Modelling of Dam-break Floods, with Damage Assessment to Electrical Substations. International Journal of Computational Fluid Dynamics, 2021, 35, 3-21.	1.2	13
14	Rheology and Microbiology of Sludge from a Thermophilic Aerobic Membrane Reactor. Journal of Chemistry, 2017, 2017, 1-19.	1.9	9
15	SPH Based Approach toward the Simulation of Non-cohesive Sediment Removal by an Innovative Technique Using a Controlled Sequence of Underwater Micro-explosions. Procedia IUTAM, 2015, 18, 28-39.	1.2	8
16	Post-Failure Dynamics of Rainfall-Induced Landslide in OltrepÃ² Pavese. Water (Switzerland), 2020, 12, 2555.	2.7	8
17	Fuzzy reliability assessment of bridge piers in presence of scouring. Bridge Maintenance, Safety and Management, 2010, , 285-285.	0.1	8
18	Standard WCSPH for Free-Surface Multi-Phase Flows with a Large Density Ratio. International Journal of Ocean and Coastal Engineering, 2018, 01, 1840001.	1.2	5

#	Article	IF	Citations
19	Study of Relative Roles of Nonlinearity and Depth Refraction in Wave Spectrum Evolution in Shallow Water. Engineering Applications of Computational Fluid Mechanics, 2009, 3, 42-55.	3.1	4
20	Dynamic Analysis of an Offshore Wind Turbine: Wind-Waves Nonlinear Interaction. , 2010, , .		4
21	Smoothed Particle Hydrodynamics multiphase modelling of an experimental microfluidic device for conformal coating of pancreatic islets. Medical Engineering and Physics, 2020, 77, 19-30.	1.7	4
22	Innovative numerical modeling to investigate local scouring problems induced by fluvial structures. Bridge Maintenance, Safety and Management, 2012, , 3110-3116.	0.1	4
23	Comparison of Techniques for Maintaining Adequate Disinfectant Residuals in a Full-Scale Water Distribution Network. Water (Switzerland), 2022, 14, 1029.	2.7	4
24	Understanding the Influence of Diverse Non-Volatile Media on Rheological Properties of Thermophilic Biological Sludge and Evaluation of Its Thixotropic Behaviour. Applied Sciences (Switzerland), 2022, 12, 5198.	2.5	3
25	Computational Methods and Applications to Simulate Water-Related Natural Hazards. Mathematical Problems in Engineering, 2020, 2020, 1-3.	1.1	2
26	Analytical Methodology for the Discharge-Stage Relation of Flexible Shape Palmer-Bowlus Flumes. Journal of Irrigation and Drainage Engineering - ASCE, 2020, 146, .	1.0	2
27	Wind-Wave Hindcasting on Offshore Wind Turbine through Coupled Atmospheric and Spectral Models. , 2010, , .		0
28	Closure to â€œAnalytical Methodology for the Discharge-Stage Relation of Flexible Shape Palmer-Bowlus Flumesâ€•by Sara Todeschini, Sauro Manenti, Francesco Volponi, and Carlo Ciaponi. Journal of Irrigation and Drainage Engineering - ASCE, 2021, 147, 07021004.	1.0	0
29	Offshore wind turbines: Basis of Structural Design. , 0, , .		0
30	Evaluation of Wave Damage in Urbanized Lagoons. , 0, , .		0