

Giacomo Viccione

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

555
citations

687220

13
h-index

713332

21
g-index

54
all docs

54
docs citations

54
times ranked

500
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved relaxation zone method in SPH-based model for coastal engineering applications. Applied Ocean Research, 2018, 81, 15-33.	1.8	58
2	Defining and optimizing algorithms for neighbouring particle identification in SPH fluid simulations. International Journal for Numerical Methods in Fluids, 2008, 58, 625-638.	0.9	56
3	Efficiency and survivability analysis of a point-absorber wave energy converter using DualSPHysics. Renewable Energy, 2020, 162, 1763-1776.	4.3	46
4	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.	3.0	40
5	Experimental and Numerical Analysis of a Dam-Break Flow through Different Contraction Geometries of the Channel. Water (Switzerland), 2020, 12, 1124.	1.2	34
6	Free surface flow impact on a vertical wall: a numerical assessment. Theoretical and Computational Fluid Dynamics, 2016, 30, 403-414.	0.9	22
7	Performance Assessment of a Planing Hull Using the Smoothed Particle Hydrodynamics Method. Journal of Marine Science and Engineering, 2021, 9, 244.	1.2	20
8	Simulating the fate of indigenous antibiotic resistant bacteria in a mild slope wastewater polluted stream. Journal of Environmental Sciences, 2018, 69, 95-104.	3.2	16
9	Analysis of anaerobic digester mixing: comparison of long shafted paddle mixing vs gas mixing. Water Science and Technology, 2020, 81, 1406-1419.	1.2	16
10	Indoors ventilation in times of confinement by SARS-CoV-2 epidemic: A comparative approach between Spain and Italy. Sustainable Cities and Society, 2021, 72, 103051.	5.1	16
11	A new cost effective, long life and low resistance filter cartridge for water treatment. Journal of Water Process Engineering, 2019, 27, 1-14.	2.6	15
12	On the use of ARIMA models for short-term water tank levels forecasting. Water Science and Technology: Water Supply, 2020, 20, 787-799.	1.0	15
13	A Comparative Assessment of Analytical Fate and Transport Models of Organic Contaminants in Unsaturated Soils. Sustainability, 2020, 12, 2949.	1.6	15
14	A DEM approach for simulating flexible beam elements with the Project Chrono core module in DualSPHysics. Computational Particle Mechanics, 2022, 9, 969-985.	1.5	15
15	Overtopping Metrics and Coastal Safety: A Case of Study from the Catalan Coast. Journal of Marine Science and Engineering, 2020, 8, 556.	1.2	12
16	Rayleigh waves in isotropic strongly elliptic thermoelastic materials with microtemperatures. Meccanica, 2017, 52, 3033-3041.	1.2	11
17	Experimental and Numerical Investigation of 3D Dam-Break Wave Propagation in an Enclosed Domain with Dry and Wet Bottom. Applied Sciences (Switzerland), 2021, 11, 5638.	1.3	11
18	A Numerical Validation of 3D Experimental Dam-Break Wave Interaction with a Sharp Obstacle Using DualSPHysics. Water (Switzerland), 2021, 13, 2133.	1.2	11

#	ARTICLE	IF	CITATIONS
19	An Analytical Approximation for Continuous Flow Microwave Heating of Liquids. <i>Advances in Mechanical Engineering</i> , 2013, 5, 929236.	0.8	10
20	Numerical Assessment of a Tension-Leg Platform Wind Turbine in Intermediate Water Using the Smoothed Particle Hydrodynamics Method. <i>Energies</i> , 2022, 15, 3993.	1.6	9
21	Ventilation for Residential Buildings: Critical Assessment of Standard Requirements in the COVID-19 Pandemic Context. <i>Frontiers in Built Environment</i> , 2021, 7, .	1.2	8
22	Simulating fluid-structure interaction with SPH. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	7
23	Experimental Analysis of the Hydraulic Performance of Wire-Wound Filter Cartridges in Domestic Plants. <i>Water (Switzerland)</i> , 2018, 10, 309.	1.2	7
24	A NEW OPEN SOURCE SOLVER FOR MODELLING FLUID-STRUCTURE INTERACTION: CASE STUDY OF A POINT-ABSORBER WAVE ENERGY CONVERTER WITH POWER TAKE-OFF UNIT. , 2020, , .		7
25	Hydropower Potential from the AUSINO Drinking Water System. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	6
26	Restructuring a Water Distribution Network through the Reactivation of Decommissioned Water Tanks. <i>Water (Switzerland)</i> , 2019, 11, 1740.	1.2	6
27	Three-dimensional CFD modelling of urban flood forces on buildings: a case study. <i>Journal of Physics: Conference Series</i> , 2022, 2162, 012020.	0.3	6
28	Free-Surface Flow Simulations with Smoothed Particle Hydrodynamics Method using High-Performance Computing. , 0, , .		5
29	Experimental and Numerical Analysis of 3D Dam-Break Waves in an Enclosed Domain with a Single Oriented Obstacle. <i>Environmental Sciences Proceedings</i> , 2020, 2, .	0.3	5
30	Kinematics of flow mass movements on inclined surfaces. <i>Theoretical and Computational Fluid Dynamics</i> , 2019, 33, 107-123.	0.9	5
31	Clogging process and related pressure drops in wire-wound filters: laboratory evidence. <i>Environmental Science and Pollution Research</i> , 2020, 27, 23464-23476.	2.7	4
32	Numerical Modeling on Fate and Transport of Pollutants in the Vadose Zone. <i>Environmental Sciences Proceedings</i> , 2020, 2, .	0.3	4
33	Simulating Flows with SPH: Recent Developments and Applications. , 2011, , .		3
34	Experimental Analysis of the Hydraulic Performance of Filtering Cartridges in Drinking Water Networks. <i>Water (Switzerland)</i> , 2018, 10, 629.	1.2	3
35	ON THE DEVELOPMENT OF A NOVEL APPROACH FOR SIMULATING ELASTIC BEAMS IN DUALSPHYSICS WITH THE USE OF THE PROJECT CHRONO LIBRARY. , 2021, , .		3
36	A Laboratory Investigation of the Hydraulic Performance of String-Wound Filters. <i>Advances in Science, Technology and Innovation</i> , 2018, , 111-112.	0.2	3

#	ARTICLE	IF	CITATIONS
37	Experimental and Numerical Analysis of the Hydraulic Performance of Filtering Cartridges for Water Treatment. , 0, , .		3
38	Experimental data of the laboratory investigation for the design of a new filter cartridge for water treatment. Data in Brief, 2019, 22, 296-306.	0.5	2
39	A control mechanism of a typical fluidâ€™structure interaction problem based on dielectric barrier discharge plasma actuation model. European Journal of Mechanics, B/Fluids, 2020, 81, 28-40.	1.2	2
40	A Pilot Plant for Energy Harvesting from Falling Water in Drainpipes. Technical and Economic Analysis. Lecture Notes in Computer Science, 2019, , 233-242.	1.0	2
41	A Preliminary Laboratory Investigation of a Hydraulic Ram Pump. Proceedings (mdpi), 2018, 2, 687.	0.2	1
42	A Laboratory Investigation of a Domestic Hydropower Model. Proceedings (mdpi), 2018, 2, .	0.2	1
43	A NUMERICAL INVESTIGATION OF LIQUID IMPACT ON PLANAR SURFACES.. , 2016, , .		1
44	Short-Term Forecasting of Tank Water Levels Serving Urban Water Distribution Networks with ARIMA Models. Advances in Science, Technology and Innovation, 2020, , 25-28.	0.2	1
45	An effective approach for designing circular pipes with the Colebrook-White formula. , 2012, , .		0
46	Drinking Water Tank Level Analysis with ARIMA Models: A Case Study. Environmental Sciences Proceedings, 2020, 2, .	0.3	0
47	A NUMERICAL INVESTIGATION OF FLOW DYNAMICS OVER A TRAPEZOIDAL SMOOTH OPEN CHANNEL. , 2016, , .		0
48	Predicting daily water tank level fluctuations by using ARIMA model. A case study. Journal of Physics: Conference Series, 2022, 2162, 012007.	0.3	0