Andrea Amicarelli

List of Publications by Year
in descending order

25 papers	389 citations	759233 12 h-index	752698 20 g-index
25 all docs	25 docs citations	25 times ranked	383 citing authors

#	Article	IF	Citations
1	A Smoothed Particle Hydrodynamics model for 3D solid body transport in free surface flows. Computers and Fluids, 2015, 116, 205-228.	2.5	69
2	A 3D smoothed particle hydrodynamics model for erosional dam-break floods. International Journal of Computational Fluid Dynamics, 2017, 31, 413-434.	1.2	40
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	SPH Modeling of Water-Related Natural Hazards. Water (Switzerland), 2019, 11, 1875.	2.7	31
5	WCSPH with Limiting Viscosity for Modeling Landslide Hazard at the Slopes of Artificial Reservoir. Water (Switzerland), 2018, 10, 515.	2.7	30
6	SPH truncation error in estimating a 3D function. Computers and Fluids, 2011, 44, 279-296.	2.5	24
7	A 3D Lagrangian micromixing dispersion model LAGFLUM and its validation with a wind tunnel experiment. Atmospheric Environment, 2012, 54, 117-126.	4.1	24
8	A 3D fully Lagrangian Smoothed Particle Hydrodynamics model with both volume and surface discrete elements. International Journal for Numerical Methods in Engineering, 2013, 95, 419-450.	2.8	20
9	SPH truncation error in estimating a 3D derivative. International Journal for Numerical Methods in Engineering, 2011, 87, 677-700.	2.8	19
10	Sensitivity analysis of a concentration fluctuation model to dissipation rate estimates. International Journal of Environment and Pollution, 2012, 48, 164.	0.2	16
11	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
12	A high-order SPH method by introducing inverse kernels. Chinese Journal of Aeronautics, 2017, 30, 1-14.	5.3	12
13	A comparison between IECM and IEM Lagrangian models. International Journal of Environment and Pollution, 2011, 44, 324.	0.2	9
14	Post-Failure Dynamics of Rainfall-Induced Landslide in OltrepÃ² Pavese. Water (Switzerland), 2020, 12, 2555.	2.7	8
15	Integrated model for the estimation of annual, seasonal, and episode PM10 exposures of children in Rome, Italy. Air Quality, Atmosphere and Health, 2011, 4, 169-178.	3.3	6
16	SPH Modelling of Hydrodynamic Lubrication along Rough Surfaces. Lubricants, 2019, 7, 103.	2.9	6
17	A stochastic Lagrangian micromixing model for the dispersion of reactive scalars in turbulent flows: role of concentration fluctuations and improvements to the conserved scalar theory under non-homogeneous conditions. Environmental Fluid Mechanics, 2017, 17, 715-753.	1.6	5
18	LAGFLUM, a stationary 3D Lagrangian stochastic numerical micromixing model for concentration fluctuations: validation in canopy turbulence, on the MUST wind tunnel experiment. International Journal of Environment and Pollution, 2011, 47, 317.	0.2	4

#	Article	IF	Citations
19	SPH modelling of hydrodynamic lubrication: laminar fluid flowâ€“structure interaction with no-slip conditions for slider bearings. Computational Particle Mechanics, 2021, 8, 665-679.	3.0	4
20	A dry deposition scheme for particulate matter coupled with a well-known Lagrangian Stochastic model for pollutant dispersion. Environmental Fluid Mechanics, 2021, 21, 433-463.	1.6	4
21	An urban scale model for pollutant dispersion in Rome. International Journal of Environment and Pollution, 2010, 40, 85.	0.2	2
22	Next-generation Multi-mechanics Simulation Engine in a Highly Interactive Environment. Procedia Computer Science, 2011, 7, 292-293.	2.0	1
23	Lagrangian micromixing modelling of reactive scalar statistics: scalar mixing layer in decaying grid turbulence. International Journal of Environment and Pollution, 2015, 58, 251.	0.2	1
24	Analytical Solutions of the Balance Equation for the Scalar Variance in One-Dimensional Turbulent Flows under Stationary Conditions. Advances in Mathematical Physics, 2015, 2015, 1-13.	0.8	1
25	A closed-form solution for the deposition of atmospheric particulate matter on electrical insulators. Environmental Fluid Mechanics, 0, , 1.	1.6	0