Vincenzo Armenio

List of Publications by Year
in descending order

61 papers	2,034 citations	279487 23 h-index	233125 45 g-index
63 all docs	63 docs citations	63 times ranked	1401 citing authors

#	Article	IF	Citations
1	Laboratory-scale investigation of a periodically forced stratified basin with inclined endwalls. Journal of Fluid Mechanics, 2022, 932, .	1.4	1
2	Analysis of Performance of Cavitation Models with Analytically Calculated Coefficients. Energies, 2021, 14, 6425.	1.6	2
3	Existence and properties of the logarithmic layer in oscillating flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 687-700.	0.7	1
4	Analysis of one-dimensional models for exchange flows under strong stratification. Ocean Dynamics, 2020, 70, 41-56.	0.9	1
5	Energy redistribution dynamics in coupled Couetteâ€"Poiseuille flows using large-Eddy simulation. International Journal of Heat and Fluid Flow, 2020, 81, 108519.	1.1	2
6	Effect of the water depth on oscillatory flows over a flat plate: from the intermittent towards the fully turbulent regime. Environmental Fluid Mechanics, 2019, 19, 1167-1184.	0.7	6
7	Assessment of Solution Algorithms for LES of Turbulent Flows Using OpenFOAM. Fluids, 2019, 4, 171.	0.8	2
8	Non-linear noise from a ship propeller in open sea condition. Ocean Engineering, 2019, 191, 106474.	1.9	37
9	Oil Spill Scenarios in the Kotor Bay: Results from High Resolution Numerical Simulations. Journal of Marine Science and Engineering, 2019, 7, 54.	1.2	7
10	Assessment of methodologies for the solution of the Ffowcs Williams and Hawkings equation using LES of incompressible single-phase flow around a finite-size square cylinder. Journal of Sound and Vibration, 2019, 453, 1-24.	2.1	25
11	Large eddy simulation of a marine turbine in a stable stratified flow condition. Journal of Ocean Engineering and Marine Energy, 2019, 5, 1-19.	0.9	8
12	Turbulent structures of buoyant jet in cross-flow studied through large-eddy simulation. Environmental Fluid Mechanics, 2019, 19, 401-433.	0.7	21
13	Large Eddy Simulations of sediment entrainment induced by a lock-exchange gravity current. Advances in Water Resources, 2018, 114, 102-118.	1.7	26
14	Hydroacoustic noise from different geometries. International Journal of Heat and Fluid Flow, 2018, 70, 348-362.	1.1	18
15	Large Eddy Simulation of Turbulent Rayleigh-BÃ©nard Convection in a Cubic Cell. ERCOFTAC Series, 2018, , 559-565.	0.1	1
16	Surface and subsurface contributions to the build-up of forces on bed particles. Journal of Fluid Mechanics, 2018, 851, 558-572.	1.4	15
17	Axisymmetric three-dimensional gravity currents generated by lock exchange. Journal of Fluid Mechanics, 2018, 851, 507-544.	1.4	40
18	An investigation of strong backflow events at the interface of airâ€"water systems using large-eddy simulation. Journal of Turbulence, 2018, 19, 553-569.	0.5	2

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19	The effect of Coriolis force on oil slick transport and spreading at sea. Journal of Hydraulic Research/De Recherches Hydrauliques, 2017, 55, 409-422.	0.7	3
20	Analysis of the flow in gravity currents propagating up a slope. Ocean Modelling, 2017, 115, 1-13.	1.0	40
21	Large-eddy simulation of thin film evaporation and condensation from a hot plate in enclosure: Second order statistics. International Journal of Heat and Mass Transfer, 2017, 115, 410-423.	2.5	3
22	Large Eddy Simulation in Hydraulic Engineering: Examples of Laboratory-Scale Numerical Experiments. Journal of Hydraulic Engineering, 2017, 143, .	0.7	9
23	Large eddy simulation (LES) of wind‐driven circulation in a peri‐alpine lake: Detection of turbulent structures and implications of a complex surrounding orography. Journal of Geophysical Research: Oceans, 2017, 122, 4704-4722.	1.0	12
24	Numerical simulation of conjugate heat transfer and surface radiative heat transfer using the P_1 thermal radiation model: Parametric study in benchmark cases.. International Journal of Heat and Mass Transfer, 2017, 107, 956-971.	2.5	26
25	Large Eddy Simulation of Environmental Flows: From the Laboratory-Scale Numerical Experiments Toward Full-Scale Applications. , 2017, , 191-214.		1
26	A New Small Drifter for Shallow Water Basins: Application to the Study of Surface Currents in the Muggia Bay (Italy). Journal of Sensors, 2016, 2016, 1-5.	0.6	9
27	Entrainment and mixing in unsteady gravity currents. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 541-557.	0.7	86
28	Large-eddy simulation of thin film evaporation and condensation from a hot plate in enclosure: First order statistics. International Journal of Heat and Mass Transfer, 2016, 101, 1123-1137.	2.5	10
29	A numerical approach for planning offshore wind farms from regional to local scales over the Mediterranean. Renewable Energy, 2016, 85, 395-405.	4.3	49
30	Large eddy simulation of two-way coupling sediment transport. Advances in Water Resources, 2015, 81, 33-44.	1.7	13
31	Numerical simulation of water mixing and renewals in the Barcelona harbour area: the winter season. Environmental Fluid Mechanics, 2014, 14, 1405-1425.	0.7	10
32	Numerical model for thin liquid film with evaporation and condensation on solid surfaces in systems with conjugated heat transfer. International Journal of Heat and Mass Transfer, 2013, 66, 382-395.	2.5	24
33	Large eddy simulation model for wind-driven sea circulation in coastal areas. Nonlinear Processes in Geophysics, 2013, 20, 1095-1112.	0.6	16
34	A numerical investigation of the turbulent Stokes–Ekman bottom boundary layer. Journal of Fluid Mechanics, 2011, 684, 316-352.	1.4	10
35	Turbulence around a scoured bridge abutment. Journal of Turbulence, 2011, 12, N3.	0.5	10
36	Large eddy simulation of mixing in coastal areas. International Journal of Heat and Fluid Flow, 2010, 31, 327-341.	1.1	24

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37	Turbulent Stresses at the Bottom Surface near an Abutment: Laboratory-Scale Numerical Experiment. Journal of Hydraulic Engineering, 2009, 135, 106-117.	0.7	21
38	An improved immersed boundary method for curvilinear grids. Computers and Fluids, 2009, 38, 1510-1527.	1.3	54
39	A numerical (LES) investigation of a shallow-water, mid-latitude, tidally-driven boundary layer. Environmental Fluid Mechanics, 2009, 9, 525-547.	0.7	6
40	Numerical investigation of the oscillatory flow around a circular cylinder close to a wall at moderate Keleganâ€"Carpenter and low Reynolds numbers. Journal of Fluid Mechanics, 2009, 627, 259-290.	1.4	25
41	Dispersion of a vertical jet of buoyant particles in a stably stratified wind-driven Ekman layer. International Journal of Heat and Fluid Flow, 2008, 29, 733-742.	1.1	4
42	The effect of the slope of irregularly distributed roughness elements on turbulent wall-bounded flows. Journal of Fluid Mechanics, 2008, 613, 385-394.	1.4	159
43	A numerical investigation of the Stokes boundary layer in the turbulent regime. Journal of Fluid Mechanics, 2007, 570, 253-296.	1.4	75
44	Simple and accurate scheme for fluid velocity interpolation for Eulerianâ€"Lagrangian computation of dispersed flows in 3D curvilinear grids. Computers and Fluids, 2007, 36, 1187-1198.	1.3	38
45	Lagrangian dispersion in coastal applications. ERCOFTAC Series, 2007, , 315-329.	0.1	0
46	Mechanisms for deposition and resuspension of heavy particles in turbulent flow over wavy interfaces. Physics of Fluids, 2006, 18, 025102.	1.6	55
47	Large eddy simulation of stably stratified open channel flow. Physics of Fluids, 2005, 17, 116602.	1.6	61
48	Mathematical modeling of Stratified flows. , 2005, , 1-73.		1
49	A 3D investigation of the dynamic loads over an array of in-line cylinders at low KC and Re numbers. Ocean Engineering, 2004, 31, 1503-1535.	1.9	3
50	Mixing in a stably stratified medium by horizontal shear near vertical walls. Theoretical and Computational Fluid Dynamics, 2004, 17, 331-349.	0.9	5
51	Three-dimensional analysis of the unidirectional oscillatory flow around a circular cylinder at low Keleganâ€"Carpenter and eta numbers. Journal of Fluid Mechanics, 2004, 520, 157-186.	1.4	45
52	Large-eddy simulation of secondary flow over longitudinally ridged walls. Journal of Turbulence, 2002, 3, N8.	0.5	15
53	An investigation of stably stratified turbulent channel flow using large-eddy simulation. Journal of Fluid Mechanics, 2002, 459, 1-42.	1.4	181
54	The importance of the forces acting on particles in turbulent flows. Physics of Fluids, 2001, 13, 2437-2440.	1.6	233

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55	A Lagrangian Mixed Subgrid-Scale Model in Generalized Coordinates. Flow, Turbulence and Combustion, 2000, 65, 51-81.	1.4	102
56	Effect of the subgrid scales on particle motion. Physics of Fluids, 1999, 11, 3030-3042.	1.6	193
57	Dynamic loads on submerged bodies in a viscous numerical wave tank at small KC numbers. Ocean Engineering, 1998, 25, 881-905.	1.9	9
58	Discussions and Closure: Equilibrium Clear-Water Scour around an Abutment. Journal of Hydraulic Engineering, 1998, 124, 1069-1073.	0.7	4
59	AN IMPROVED MAC METHOD (SIMAC) FOR UNSTEADY HIGH-REYNOLDS FREE SURFACE FLOWS. International Journal for Numerical Methods in Fluids, 1997, 24, 185-214.	0.9	36
60	AN IMPROVED MAC METHOD (SIMAC) FOR UNSTEADY HIGH-REYNOLDS FREE SURFACE FLOWS. , 1997, 24, 185.		2
61	On the analysis of sloshing of water in rectangular containers: Numerical study and experimental validation. Ocean Engineering, 1996, 23, 705-739.	1.9	137