

Vincenzo Armenio

List of Publications by Year in descending order

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Version: 2024-02-01

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	The importance of the forces acting on particles in turbulent flows. <i>Physics of Fluids</i> , 2001, 13, 2437-2440.	1.6	233
2	Effect of the subgrid scales on particle motion. <i>Physics of Fluids</i> , 1999, 11, 3030-3042.	1.6	193
3	An investigation of stably stratified turbulent channel flow using large-eddy simulation. <i>Journal of Fluid Mechanics</i> , 2002, 459, 1-42.	1.4	181
4	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.	1.4	159
5	On the analysis of sloshing of water in rectangular containers: Numerical study and experimental validation. <i>Ocean Engineering</i> , 1996, 23, 705-739.	1.9	137
6	A Lagrangian Mixed Subgrid-Scale Model in Generalized Coordinates. <i>Flow, Turbulence and Combustion</i> , 2000, 65, 51-81.	1.4	102
7	Entrainment and mixing in unsteady gravity currents. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016, 54, 541-557.	0.7	86
8	A numerical investigation of the Stokes boundary layer in the turbulent regime. <i>Journal of Fluid Mechanics</i> , 2007, 570, 253-296.	1.4	75
9	Large eddy simulation of stably stratified open channel flow. <i>Physics of Fluids</i> , 2005, 17, 116602.	1.6	61
10	Mechanisms for deposition and resuspension of heavy particles in turbulent flow over wavy interfaces. <i>Physics of Fluids</i> , 2006, 18, 025102.	1.6	55
11	An improved immersed boundary method for curvilinear grids. <i>Computers and Fluids</i> , 2009, 38, 1510-1527.	1.3	54
12	A numerical approach for planning offshore wind farms from regional to local scales over the Mediterranean. <i>Renewable Energy</i> , 2016, 85, 395-405.	4.3	49
13	Three-dimensional analysis of the unidirectional oscillatory flow around a circular cylinder at low Keulegan-Carpenter and β numbers. <i>Journal of Fluid Mechanics</i> , 2004, 520, 157-186.	1.4	45
14	Analysis of the flow in gravity currents propagating up a slope. <i>Ocean Modelling</i> , 2017, 115, 1-13.	1.0	40
15	Axisymmetric three-dimensional gravity currents generated by lock exchange. <i>Journal of Fluid Mechanics</i> , 2018, 851, 507-544.	1.4	40
16	Simple and accurate scheme for fluid velocity interpolation for Eulerian-Lagrangian computation of dispersed flows in 3D curvilinear grids. <i>Computers and Fluids</i> , 2007, 36, 1187-1198.	1.3	38
17	Non-linear noise from a ship propeller in open sea condition. <i>Ocean Engineering</i> , 2019, 191, 106474.	1.9	37
18	AN IMPROVED MAC METHOD (SIMAC) FOR UNSTEADY HIGH-REYNOLDS FREE SURFACE FLOWS. <i>International Journal for Numerical Methods in Fluids</i> , 1997, 24, 185-214.	0.9	36

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19	Numerical simulation of conjugate heat transfer and surface radiative heat transfer using the $\epsilon\text{-P}$ model: Parametric study in benchmark cases.. International Journal of Heat and Mass Transfer, 2017, 107, 956-971.	1.4	26
20	Large Eddy Simulations of sediment entrainment induced by a lock-exchange gravity current. Advances in Water Resources, 2018, 114, 102-118.	1.7	26
21	Numerical investigation of the oscillatory flow around a circular cylinder close to a wall at moderate Keulegan-Carpenter and low Reynolds numbers. Journal of Fluid Mechanics, 2009, 627, 259-290.	1.4	25
22	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
23	Large eddy simulation of mixing in coastal areas. International Journal of Heat and Fluid Flow, 2010, 31, 327-341.	1.1	24
24	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
25	Turbulent Stresses at the Bottom Surface near an Abutment: Laboratory-Scale Numerical Experiment. Journal of Hydraulic Engineering, 2009, 135, 106-117.	0.7	21
26	Turbulent structures of buoyant jet in cross-flow studied through large-eddy simulation. Environmental Fluid Mechanics, 2019, 19, 401-433.	0.7	21
27	Hydroacoustic noise from different geometries. International Journal of Heat and Fluid Flow, 2018, 70, 348-362.	1.1	18
28	Large eddy simulation model for wind-driven sea circulation in coastal areas. Nonlinear Processes in Geophysics, 2013, 20, 1095-1112.	0.6	16
29	Large-eddy simulation of secondary flow over longitudinally ridged walls. Journal of Turbulence, 2002, 3, N8.	0.5	15
30	Surface and subsurface contributions to the build-up of forces on bed particles. Journal of Fluid Mechanics, 2018, 851, 558-572.	1.4	15
31	Large eddy simulation of two-way coupling sediment transport. Advances in Water Resources, 2015, 81, 33-44.	1.7	13
32	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
33	A numerical investigation of the turbulent Stokes-Ekman bottom boundary layer. Journal of Fluid Mechanics, 2011, 684, 316-352.	1.4	10
34	Turbulence around a scoured bridge abutment. Journal of Turbulence, 2011, 12, N3.	0.5	10
35	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
36	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

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37	Dynamic loads on submerged bodies in a viscous numerical wave tank at small KC numbers. <i>Ocean Engineering</i> , 1998, 25, 881-905.	1.9	9
38	A New Small Drifter for Shallow Water Basins: Application to the Study of Surface Currents in the Muggia Bay (Italy). <i>Journal of Sensors</i> , 2016, 2016, 1-5.	0.6	9
39	Large Eddy Simulation in Hydraulic Engineering: Examples of Laboratory-Scale Numerical Experiments. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	0.7	9
40	Large eddy simulation of a marine turbine in a stable stratified flow condition. <i>Journal of Ocean Engineering and Marine Energy</i> , 2019, 5, 1-19.	0.9	8
41	Oil Spill Scenarios in the Kotor Bay: Results from High Resolution Numerical Simulations. <i>Journal of Marine Science and Engineering</i> , 2019, 7, 54.	1.2	7
42	A numerical (LES) investigation of a shallow-water, mid-latitude, tidally-driven boundary layer. <i>Environmental Fluid Mechanics</i> , 2009, 9, 525-547.	0.7	6
43	Effect of the water depth on oscillatory flows over a flat plate: from the intermittent towards the fully turbulent regime. <i>Environmental Fluid Mechanics</i> , 2019, 19, 1167-1184.	0.7	6
44	Mixing in a stably stratified medium by horizontal shear near vertical walls. <i>Theoretical and Computational Fluid Dynamics</i> , 2004, 17, 331-349.	0.9	5
45	Discussions and Closure: Equilibrium Clear-Water Scour around an Abutment. <i>Journal of Hydraulic Engineering</i> , 1998, 124, 1069-1073.	0.7	4
46	Dispersion of a vertical jet of buoyant particles in a stably stratified wind-driven Ekman layer. <i>International Journal of Heat and Fluid Flow</i> , 2008, 29, 733-742.	1.1	4
47	A 3D investigation of the dynamic loads over an array of in-line cylinders at low KC and Re numbers. <i>Ocean Engineering</i> , 2004, 31, 1503-1535.	1.9	3
48	The effect of Coriolis force on oil slick transport and spreading at sea. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 409-422.	0.7	3
49	Large-eddy simulation of thin film evaporation and condensation from a hot plate in enclosure: Second order statistics. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 410-423.	2.5	3
50	An investigation of strong backflow events at the interface of air-water systems using large-eddy simulation. <i>Journal of Turbulence</i> , 2018, 19, 553-569.	0.5	2
51	Assessment of Solution Algorithms for LES of Turbulent Flows Using OpenFOAM. <i>Fluids</i> , 2019, 4, 171.	0.8	2
52	Energy redistribution dynamics in coupled Couette-Poiseuille flows using large-Eddy simulation. <i>International Journal of Heat and Fluid Flow</i> , 2020, 81, 108519.	1.1	2
53	AN IMPROVED MAC METHOD (SIMAC) FOR UNSTEADY HIGH-REYNOLDS FREE SURFACE FLOWS. , 1997, 24, 185.		2
54	Analysis of Performance of Cavitation Models with Analytically Calculated Coefficients. <i>Energies</i> , 2021, 14, 6425.	1.6	2

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55	Large Eddy Simulation of Environmental Flows: From the Laboratory-Scale Numerical Experiments Toward Full-Scale Applications. , 2017, , 191-214.		1
56	Large Eddy Simulation of Turbulent Rayleigh-B�nard Convection in a Cubic Cell. ERCOFTAC Series, 2018, , 559-565.	0.1	1
57	Existence and properties of the logarithmic layer in oscillating flows. Journal of Hydraulic Research/De Recherches Hydrauliques, 2020, 58, 687-700.	0.7	1
58	Analysis of one-dimensional models for exchange flows under strong stratification. Ocean Dynamics, 2020, 70, 41-56.	0.9	1
59	Mathematical modeling of Stratified flows. , 2005, , 1-73.		1
60	Laboratory-scale investigation of a periodically forced stratified basin with inclined endwalls. Journal of Fluid Mechanics, 2022, 932, .	1.4	1
61	Lagrangian dispersion in coastal applications. ERCOFTAC Series, 2007, , 315-329.	0.1	0