

Massimo Germano

List of Publications by Year in descending order

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44
papers

7,670
citations

623188

14
h-index

360668

35
g-index

49
all docs

49
docs citations

49
times ranked

3504
citing authors

#	ARTICLE	IF	CITATIONS
1	A dynamic subgrid-scale eddy viscosity model. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991, 3, 1760-1765.	1.6	5,561
2	Turbulence: the filtering approach. <i>Journal of Fluid Mechanics</i> , 1992, 238, 325-336.	1.4	891
3	On the effect of torsion on a helical pipe flow. <i>Journal of Fluid Mechanics</i> , 1982, 125, 1.	1.4	273
4	A proposal for a redefinition of the turbulent stresses in the filtered Navier-Stokes equations. <i>Physics of Fluids</i> , 1986, 29, 2323.	1.4	155
5	The Dean equations extended to a helical pipe flow. <i>Journal of Fluid Mechanics</i> , 1989, 203, 289-305.	1.4	152
6	Differential filters for the large eddy numerical simulation of turbulent flows. <i>Physics of Fluids</i> , 1986, 29, 1755.	1.4	141
7	Differential filters of elliptic type. <i>Physics of Fluids</i> , 1986, 29, 1757.	1.4	100
8	Properties of the hybrid RANS/LES filter. <i>Theoretical and Computational Fluid Dynamics</i> , 2004, 17, 225-231.	0.9	82
9	Dynamic inverse modeling and its testing in large-eddy simulations of the mixing layer. <i>Physics of Fluids</i> , 1999, 11, 3778-3785.	1.6	47
10	A statistical formulation of the dynamic model. <i>Physics of Fluids</i> , 1996, 8, 565-570.	1.6	34
11	On the filtering paradigm for LES of flows with discontinuities. <i>Journal of Turbulence</i> , 2005, 6, N23.	0.5	21
12	A new deconvolution method for large eddy simulation. <i>Physics of Fluids</i> , 2009, 21, 045107.	1.6	19
13	A direct relation between the filtered subgrid stress and the second order structure function. <i>Physics of Fluids</i> , 2007, 19, 038102.	1.6	15
14	Generalized logarithmic scaling for high-order moments of the longitudinal velocity component explained by the random sweeping decorrelation hypothesis. <i>Physics of Fluids</i> , 2016, 28, .	1.6	14
15	General formalism for a reduced description and modelling of momentum and energy transfer in turbulence. <i>Journal of Fluid Mechanics</i> , 2019, 866, 865-896.	1.4	14
16	Coarse grained simulations of shock-driven turbulent material mixing. <i>Physics of Fluids</i> , 2021, 33, .	1.6	14
17	The simplest decomposition of a turbulent field. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 284-287.	1.3	10
18	On the extension of the eddy viscosity model to compressible flows. <i>Physics of Fluids</i> , 2014, 26, .	1.6	10

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19	The similarity subgrid stresses associated to the approximate Van Cittert deconvolutions. Physics of Fluids, 2015, 27, 035111.	1.6	10
20	Dynamic bridging modeling for coarse grained simulations of shock driven turbulent mixing. Computers and Fluids, 2020, 199, 104430.	1.3	9
21	Comment on 'Turbulence modeling for time-dependent RANS and VLES - A review'. AIAA Journal, 1998, 36, 1766-1766.	1.5	9
22	The elementary energy transfer between the two-point velocity mean and difference. Physics of Fluids, 2007, 19, .	1.6	7
23	On the non-Reynolds averages in turbulence. , 1987, , .		6
24	On the Extension of the Dynamic Modelling Procedure to Turbulent Reacting Flows. ERCOFTAC Series, 1997, , 291-300.	0.1	6
25	Decomposition of the Reynolds stress from filtered data. Physical Review Fluids, 2018, 3, .	1.0	5
26	Analysis and Modelling of the Commutation Error. Fluids, 2021, 6, 15.	0.8	5
27	On the Hybrid RANS-LES of Compressible Flows. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2015, , 253-263.	0.2	4
28	Potential flow in helical pipes. Meccanica, 1987, 22, 8-13.	1.2	3
29	Decomposition of Turbulent Fluxes from Filtered Data and Application to Turbulent Premixed Combustion Modelling. Flow, Turbulence and Combustion, 2019, 103, 503-517.	1.4	3
30	Basic issues of turbulence modeling. , 1999, , 213-219.		3
31	Dynamic tensorial eddy viscosity model: Effects of compressibility and of complex geometry. Physics of Fluids, 2022, 34, .	1.6	3
32	On a possible direct effect of the eddy viscosity gradient in turbulence modeling. Physics of Fluids, 2002, 14, 3745-3747.	1.6	1
33	LES of the channel flow in a non aligned system of coordinates. Journal of Physics: Conference Series, 2011, 318, 042041.	0.3	1
34	Blending and nudging in fluid dynamics: some simple observations. Fluid Dynamics Research, 2017, 49, 055503.	0.6	1
35	Averaging Procedures for the Large Eddy Simulation of Variable Density Flows. Fluid Mechanics and Its Applications, 1997, , 101-108.	0.1	1
36	A Mixed RANS/LES Model Applied to the Channel Flow. Springer Proceedings in Physics, 2014, , 217-222.	0.1	1

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37	Line radiation in non local thermodynamic equilibrium. <i>Meccanica</i> , 1970, 5, 197-202.	1.2	0
38	Radiant energy extraction from a gasdynamic laser. Static behavior. <i>Meccanica</i> , 1975, 10, 114-119.	1.2	0
39	The filtering formulation of the mixed subgrid model. <i>Physics of Fluids</i> , 2008, 20, 075103.	1.6	0
40	Analysis of a Hybrid RANS/LES Model Using RANS Reconstruction. <i>Springer Proceedings in Physics</i> , 2016, , 83-86.	0.1	0
41	A RANS Assisted LES Approach. <i>ERCOTAC Series</i> , 2019, , 159-165.	0.1	0
42	On the Eddy Viscosity Associated with the Subgrid Stresses. <i>ERCOTAC Series</i> , 2019, , 101-106.	0.1	0
43	Dynamic Bridging for Coarse Grained Simulations of Turbulent Material Mixing. <i>Springer Proceedings in Physics</i> , 2021, , 79-84.	0.1	0
44	Dynamic Tensorial Eddy Viscosity and Turbulent Stresses. <i>Springer Proceedings in Physics</i> , 2021, , 85-90.	0.1	0