Marcello Meldi

List of Publications by Year
in descending order

		687363	677142
31 papers	**498** citations	**13** h-index	**22** g-index
32 all docs	**32** docs citations	**32** times ranked	**355** citing authors

#	Article	IF	Citations
1	A reduced order model based on Kalman filtering for sequential data assimilation of turbulent flows. Journal of Computational Physics, 2017, 347, 207-234.	3.8	46
2	Further insights into self-similarity and self-preservation in freely decaying isotropic turbulence. Journal of Turbulence, 2013, 14, 24-53.	1.4	44
3	Epistemic uncertainties in RANS model free coefficients. Computers and Fluids, 2014, 102, 315-335.	2.5	44
4	On non-self-similar regimes in homogeneous isotropic turbulence decay. Journal of Fluid Mechanics, 2012, 711, 364-393.	3.4	42
5	An immersed boundary method in OpenFOAM : Verification and validation. Computers and Fluids, 2017, 157, 55-72.	2.5	40
6	A stochastic view of isotropic turbulence decay. Journal of Fluid Mechanics, 2011, 668, 351-362.	3.4	29
7	A pressure-corrected Immersed Boundary Method for the numerical simulation of compressible flows. Journal of Computational Physics, 2018, 374, 361-383.	3.8	28
8	An arbitrary Lagrangian–Eulerian approach for the simulation of immersed moving solids with Lattice Boltzmann Method. Journal of Computational Physics, 2013, 235, 182-198.	3.8	26
9	Quantification of errors in large-eddy simulations of a spatially evolving mixing layer using polynomial chaos. Physics of Fluids, 2012, 24, .	4.0	25
10	Is the Smagorinsky coefficient sensitive to uncertainty in the form of the energy spectrum?. Physics of Fluids, 2011, 23, .	4.0	23
11	Pressure statistics in self-similar freely decaying isotropic turbulence. Journal of Fluid Mechanics, 2013, 717, .	3.4	19
12	Turbulence in a box: quantification of large-scale resolution effects in isotropic turbulence freeÂdecay. Journal of Fluid Mechanics, 2017, 818, 697-715.	3.4	18
13	Numerical investigation on the partial return to isotropy of freely decaying homogeneous axisymmetric turbulence. Physics of Fluids, 2014, 26, .	4.0	15
14	On the emergence of non-classical decay regimes in multiscale/fractal generated isotropic turbulence. Journal of Fluid Mechanics, 2014, 756, 816-843.	3.4	13
15	Investigation of anomalous very fast decay regimes in homogeneous isotropic turbulence. Journal of Turbulence, 2018, 19, 390-413.	1.4	13
16	A multigrid/ensemble Kalman filter strategy for assimilation of unsteady flows. Journal of Computational Physics, 2021, 443, 110481.	3.8	12
17	Temperature dynamics in decaying isotropic turbulence with Joule heat production. Journal of Fluid Mechanics, 2013, 724, 425-449.	3.4	11
18	Augmented Prediction of Turbulent Flows via Sequential Estimators. Flow, Turbulence and Combustion, 2018, 101, 389-412.	2.6	9

#	Article	IF	Citations
19	The signature of initial production mechanisms in isotropic turbulence decay. Physics of Fluids, 2016, 28, .	4.0	8
20	Analysis of Lundgren's matched asymptotic expansion approach to the KÃ¡rmÃ¡n-Howarth equation using the eddy damped quasinormal Markovian turbulence closure. Physical Review Fluids, 2021, 6, .	2.5	8
21	Reynolds number effect on the velocity derivative flatness factor. Journal of Fluid Mechanics, 2018, 856, 426-443.	3.4	6
22	Revisiting the drag reduction problem using adjoint-based distributed forcing of laminar and turbulent flows over a circular cylinder. European Journal of Mechanics, B/Fluids, 2018, 72, 123-134.	2.5	5
23	An adaptive numerical method for solving EDQNM equations for the analysis of long-time decay of isotropic turbulence. Journal of Computational Physics, 2014, 262, 72-85.	3.8	4
24	Reliability of Large-Eddy Simulations: Benchmarking and Uncertainty Quantification. ERCOFTAC Series, 2018, , 15-23.	0.1	3
25	Numerical investigation of skewed spatially evolving mixing layers. Journal of Fluid Mechanics, 2020, 897, .	3.4	2
26	Sensitivity analysis of the second and third-order velocity structure functions to the Reynolds number in decaying and forced isotropic turbulence using the EDQNM model. European Journal of Mechanics, B/Fluids, 2021, 88, 229-242.	2.5	2
27	Drag reduction of a square-back bluff body under constant cross-wind conditions using asymmetric shear layer forcing. International Journal of Heat and Fluid Flow, 2022, 96, 109003.	2.4	2
28	Quantification of the effects of uncertainties in turbulent flows through generalized Polynomial Chaos. Journal of Physics: Conference Series, 2011, 318, 042055.	0.4	1
29	Reduced interaction between numerical and model errors through anisotropic filtering. ERCOFTAC Series, 2011, , 91-100.	0.1	0
30	Non-classical/Exponential Decay Regimes in Multiscale Generated Isotropic Turbulence. , 2017, , 421-431.		0
31	Augmented Prediction of Turbulent Flows via Sequential Estimators. ERCOFTAC Series, 2019, , 183-189.	0.1	0