

Marcello Meldi

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

498
citations

687363

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h-index

677142

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g-index

32
all docs

32
docs citations

32
times ranked

355
citing authors

#	ARTICLE	IF	CITATIONS
1	Drag reduction of a square-back bluff body under constant cross-wind conditions using asymmetric shear layer forcing. <i>International Journal of Heat and Fluid Flow</i> , 2022, 96, 109003.	2.4	2
2	Analysis of Lundgren's matched asymptotic expansion approach to the K \tilde{A} \tilde{r} m \tilde{A} \tilde{i} n-Howarth equation using the eddy damped quasnormal Markovian turbulence closure. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	8
3	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. <i>European Journal of Mechanics, B/Fluids</i> , 2021, 88, 229-242.	2.5	2
4	A multigrid/ensemble Kalman filter strategy for assimilation of unsteady flows. <i>Journal of Computational Physics</i> , 2021, 443, 110481.	3.8	12
5	Numerical investigation of skewed spatially evolving mixing layers. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	3.4	2
6	Augmented Prediction of Turbulent Flows via Sequential Estimators. <i>ERCOTAC Series</i> , 2019, , 183-189.	0.1	0
7	Revisiting the drag reduction problem using adjoint-based distributed forcing of laminar and turbulent flows over a circular cylinder. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 72, 123-134.	2.5	5
8	Investigation of anomalous very fast decay regimes in homogeneous isotropic turbulence. <i>Journal of Turbulence</i> , 2018, 19, 390-413.	1.4	13
9	Reliability of Large-Eddy Simulations: Benchmarking and Uncertainty Quantification. <i>ERCOTAC Series</i> , 2018, , 15-23.	0.1	3
10	Reynolds number effect on the velocity derivative flatness factor. <i>Journal of Fluid Mechanics</i> , 2018, 856, 426-443.	3.4	6
11	Augmented Prediction of Turbulent Flows via Sequential Estimators. <i>Flow, Turbulence and Combustion</i> , 2018, 101, 389-412.	2.6	9
12	A pressure-corrected Immersed Boundary Method for the numerical simulation of compressible flows. <i>Journal of Computational Physics</i> , 2018, 374, 361-383.	3.8	28
13	Turbulence in a box: quantification of large-scale resolution effects in isotropic turbulence free \tilde{A} decay. <i>Journal of Fluid Mechanics</i> , 2017, 818, 697-715.	3.4	18
14	An immersed boundary method in OpenFOAM : Verification and validation. <i>Computers and Fluids</i> , 2017, 157, 55-72.	2.5	40
15	A reduced order model based on Kalman filtering for sequential data assimilation of turbulent flows. <i>Journal of Computational Physics</i> , 2017, 347, 207-234.	3.8	46
16	Non-classical/Exponential Decay Regimes in Multiscale Generated Isotropic Turbulence. , 2017, , 421-431.		0
17	The signature of initial production mechanisms in isotropic turbulence decay. <i>Physics of Fluids</i> , 2016, 28, .	4.0	8
18	On the emergence of non-classical decay regimes in multiscale/fractal generated isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2014, 756, 816-843.	3.4	13

#	ARTICLE	IF	CITATIONS
19	Numerical investigation on the partial return to isotropy of freely decaying homogeneous axisymmetric turbulence. <i>Physics of Fluids</i> , 2014, 26, .	4.0	15
20	Epistemic uncertainties in RANS model free coefficients. <i>Computers and Fluids</i> , 2014, 102, 315-335.	2.5	44
21	An adaptive numerical method for solving EDQNM equations for the analysis of long-time decay of isotropic turbulence. <i>Journal of Computational Physics</i> , 2014, 262, 72-85.	3.8	4
22	Further insights into self-similarity and self-preservation in freely decaying isotropic turbulence. <i>Journal of Turbulence</i> , 2013, 14, 24-53.	1.4	44
23	An arbitrary Lagrangian-Eulerian approach for the simulation of immersed moving solids with Lattice Boltzmann Method. <i>Journal of Computational Physics</i> , 2013, 235, 182-198.	3.8	26
24	Pressure statistics in self-similar freely decaying isotropic turbulence. <i>Journal of Fluid Mechanics</i> , 2013, 717, .	3.4	19
25	Temperature dynamics in decaying isotropic turbulence with Joule heat production. <i>Journal of Fluid Mechanics</i> , 2013, 724, 425-449.	3.4	11
26	On non-self-similar regimes in homogeneous isotropic turbulence decay. <i>Journal of Fluid Mechanics</i> , 2012, 711, 364-393.	3.4	42
27	Quantification of errors in large-eddy simulations of a spatially evolving mixing layer using polynomial chaos. <i>Physics of Fluids</i> , 2012, 24, .	4.0	25
28	Quantification of the effects of uncertainties in turbulent flows through generalized Polynomial Chaos. <i>Journal of Physics: Conference Series</i> , 2011, 318, 042055.	0.4	1
29	A stochastic view of isotropic turbulence decay. <i>Journal of Fluid Mechanics</i> , 2011, 668, 351-362.	3.4	29
30	Is the Smagorinsky coefficient sensitive to uncertainty in the form of the energy spectrum?. <i>Physics of Fluids</i> , 2011, 23, .	4.0	23
31	Reduced interaction between numerical and model errors through anisotropic filtering. <i>ERCOFTAC Series</i> , 2011, , 91-100.	0.1	0