RÃ©mi Manceau

List of Publications by Year
in descending order

38 papers	1,159 citations	361413 20 h-index	377865 34 g-index
39 all docs	39 docs citations	39 times ranked	587 citing authors

#	Article	IF	Citations
1	Elliptic blending model: A new near-wall Reynolds-stress turbulence closure. Physics of Fluids, 2002, 14, 744-754.	4.0	242
2	Examination of large-scale structures in a turbulent plane mixing layer. Part 2. Dynamical systems model. Journal of Fluid Mechanics, 2001, 441, 67-108.	3.4	82
3	Predictions of flow and heat transfer in multiple impinging jets with an elliptic-blending second-moment closure. International Journal of Heat and Mass Transfer, 2005, 48, 1583-1598.	4.8	76
4	Recent progress in the development of the Elliptic Blending Reynolds-stress model. International Journal of Heat and Fluid Flow, 2015, 51, 195-220.	2.4	68
5	Revisiting URANS Computations of the Backward-facing Step Flow Using Second Moment Closures. Influence of the Numerics. Flow, Turbulence and Combustion, 2008, 81, 395-414.	2.6	59
6	Turbulent heat transfer predictions using the â€“f model on unstructured meshes. International Journal of Heat and Fluid Flow, 2000, 21, 320-328.	2.4	48
7	Inhomogeneity and anisotropy effects on the redistribution term in Reynolds-averaged Navierâ€“Stokes modelling. Journal of Fluid Mechanics, 2001, 438, 307-338.	3.4	48
8	A seamless hybrid RANS-LES model based on transport equations for the subgrid stresses and elliptic blending. Physics of Fluids, 2010, 22, .	4.0	46
9	Turbulent inflow conditions for large-eddy simulation based on low-order empirical model. Physics of Fluids, 2008, 20, .	4.0	42
10	Anisotropic linear forcing for synthetic turbulence generation in large eddy simulation and hybrid RANS/LES modeling. Physics of Fluids, 2015, 27, .	4.0	42
11	Generation of turbulent inflow conditions for large eddy simulation from stereoscopic PIV measurements. International Journal of Heat and Fluid Flow, 2006, 27, 576-584.	2.4	41
12	A new form of the elliptic relaxation equation to account for wall effects in RANS modeling. Physics of Fluids, 2000, 12, 2345-2351.	4.0	40
13	Turbulence modelling of statistically periodic flows: Synthetic jet into quiescent air. International Journal of Heat and Fluid Flow, 2006, 27, 756-767.	2.4	40
14	Current trends in modelling research for turbulent aerodynamic flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2389-2418.	3.4	40
15	Temporal filtering: A consistent formalism for seamless hybrid RANSâ€“LES modeling in inhomogeneous turbulence. International Journal of Heat and Fluid Flow, 2010, 31, 378-389.	2.4	37
16	An elliptic blending differential flux model for natural, mixed and forced convection. International Journal of Heat and Fluid Flow, 2017, 63, 190-204.	2.4	32
17	Toward an equivalence criterion for Hybrid RANS/LES methods. Computers and Fluids, 2015, 122, 233-246.	2.5	29
18	Algebraic Modeling of the Turbulent Heat Fluxes Using the Elliptic Blending Approachâ€”Application to Forced and Mixed Convection Regimes. Flow, Turbulence and Combustion, 2012, 88, 77-100.	2.6	23

#	Article	IF	Citations
19	A rescaled elliptic relaxation approach: Neutralizing the effect on the log layer. Physics of Fluids, 2002, 14, 3868-3879.	4.0	21
20	Numerical Simulations of Flow and Heat Transfer in a Wall-Bounded Pin Matrix. Flow, Turbulence and Combustion, 2020, 104, 19-44.	2.6	21
21	Investigation of the interaction of a turbulent impinging jet and a heated, rotating disk. Physics of Fluids, 2014, 26, .	4.0	14
22	Development and Validation of a New Formulation of Hybrid Temporal Large Eddy Simulation. Flow, Turbulence and Combustion, 2022, 108, 1-42.	2.6	11
23	Influence of the turbulence model for channel flows with strong transverse temperature gradients. International Journal of Heat and Fluid Flow, 2018, 70, 79-103.	2.4	10
24	Extension to various thermal boundary conditions of the elliptic blending model for the turbulent heat flux and the temperature variance. Journal of Fluid Mechanics, 2020, 905, .	3.4	8
25	Large-eddy-simulation-based analysis of Reynolds-stress budgets for a round impinging jet. Physics of Fluids, 2021, 33, .	4.0	7
26	LES, Zonal and Seamless Hybrid LES/RANS: Rationale and Application to Free and Wall-Bounded Flows Involving Separation and Swirl. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2009, , 253-282.	0.3	6
27	Assessment of Reynolds-stress models for aeronautical applications. International Journal of Heat and Fluid Flow, 2022, 96, 108955.	2.4	4
28	A PENETROVISCOSIMETER FOR NEWTONIAN AND VISCO-PLASTIC FLUIDS. Instrumentation Science and Technology, 2001, 29, 169-184.	1.8	3
29	Progress in Hybrid Temporal LES. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 9-25.	0.3	3
30	Asymmetric reverse transition phenomenon in internal turbulent channel flows due to temperature gradients. International Journal of Thermal Sciences, 2021, 159, 106463.	4.9	3
31	Unsteady RANS and Large Eddy Simulation of the flow and heat transfer in a wall bounded pin matrix. , 2012, , .		3
32	A Hybrid RANSâ€“LES Model Based on Temporal Filtering. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 225-234.	0.3	2
33	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns="http://www.elsevier.com/xml/bk/dtd" xmlns:bk="http://www.elsevier.com/xml/bk/dtd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:mml="http://www.w3.org/1998/Math/MathML"		2
34	Characterization of Paste-Extrudable Explosives Using a Penetration Test. Propellants, Explosives, Pyrotechnics, 1999, 24, 227-231.	1.6	1
35	Introduction of Wall Effects into Explicit Algebraic Stress Models Through Elliptic Blending. ERCOFTAC Series, 2011, , 287-297.	0.1	1
36	Development and validation of a hybrid temporal LES model in the perspective of applications to internal combustion engines. Oil and Gas Science and Technology, 2019, 74, 56.	1.4	1

#	Article	IF	Citations
37	Toward a Hybrid Temporal LES Method. , 2011, , .		0
38	URANS and Seamless Hybrid URANS/LES : the forced turbulent temporal mixing layer. Springer Proceedings in Physics, 2007, , 742-742.	0.2	0