

Bruno Chaouat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2069949/publications.pdf>

Version: 2024-02-01

24

papers

585

citations

623734

14

h-index

677142

22

g-index

27

all docs

27

docs citations

27

times ranked

182

citing authors

#	ARTICLE	IF	CITATIONS
1	The State of the Art of Hybrid RANS/LES Modeling for the Simulation of Turbulent Flows. Flow, Turbulence and Combustion, 2017, 99, 279-327.	2.6	140
2	A new partially integrated transport model for subgrid-scale stresses and dissipation rate for turbulent developing flows. Physics of Fluids, 2005, 17, 065106.	4.0	107
3	Hybrid RANS/LES simulations of the turbulent flow over periodic hills at high Reynolds number using the PITM method. Computers and Fluids, 2013, 84, 279-300.	2.5	46
4	Progress in subgrid-scale transport modelling for continuous hybrid non-zonal RANS/LES simulations. International Journal of Heat and Fluid Flow, 2009, 30, 602-616.	2.4	40
5	From single-scale turbulence models to multiple-scale and subgrid-scale models by Fourier transform. Theoretical and Computational Fluid Dynamics, 2007, 21, 201-229.	2.2	33
6	Numerical Predictions of Channel Flows with Fluid Injection Using Reynolds-Stress Model. Journal of Propulsion and Power, 2002, 18, 295-303.	2.2	21
7	Analytical insights into the partially integrated transport modeling method for hybrid Reynolds averaged Navier-Stokes equations-large eddy simulations of turbulent flows. Physics of Fluids, 2012, 24, .	4.0	21
8	Flow Analysis of a Solid Propellant Rocket Motor with Aft Fins. Journal of Propulsion and Power, 1997, 13, 194-196.	2.2	20
9	Reynolds Stress Transport Modeling for High-Lift Airfoil Flows. AIAA Journal, 2006, 44, 2390-2403.	2.6	19
10	Simulations of Channel Flows With Effects of Spanwise Rotation or Wall Injection Using a Reynolds Stress Model. Journal of Fluids Engineering, Transactions of the ASME, 2001, 123, 2-10.	1.5	16
11	Subfilter-scale transport model for hybrid RANS/LES simulations applied to a complex bounded flow. Journal of Turbulence, 2010, 11, N51.	1.4	15
12	Simulations of turbulent rotating flows using a subfilter scale stress model derived from the partially integrated transport modeling method. Physics of Fluids, 2012, 24, .	4.0	15
13	Partially integrated transport modeling method for turbulence simulation with variable filters. Physics of Fluids, 2013, 25, .	4.0	15
14	An efficient numerical method for RANS/LES turbulent simulations using subfilter scale stress transport equations. International Journal for Numerical Methods in Fluids, 2011, 67, 1207-1233.	1.6	14
15	Reynolds stress transport modelling for steady and unsteady channel flows with wall injection. Journal of Turbulence, 2002, 3, N21.	1.4	13
16	Application of the PITM Method Using Inlet Synthetic Turbulence Generation for the Simulation of the Turbulent Flow in a Small Axisymmetric Contraction. Flow, Turbulence and Combustion, 2017, 98, 987-1024.	2.6	13
17	Commutation errors in PITM simulation. International Journal of Heat and Fluid Flow, 2017, 67, 138-154.	2.4	9
18	Numerical simulations of channel flows with fluid injection using Reynolds stress model. , 2000, , .		6

#	ARTICLE	IF	CITATIONS
19	Numerical simulations of fully developed channel flows by using k-epsilon, algebraic and Reynolds stress models. , 1999, , .		5
20	Investigation of the Wall Scalar Fluctuations Effect on Passive Scalar Turbulent Fields at Several Prandtl Numbers by Means of Direct Numerical Simulations. Journal of Heat Transfer, 2019, 141, .	2.1	4
21	Energy Partitioning Control in the PITM Hybrid RANS/LES Method for the Simulation of Turbulent Flows. Flow, Turbulence and Combustion, 2021, 107, 937-978.	2.6	3
22	Extension of the partially integrated transport modeling method to the simulation of passive scalar turbulent fluctuations at various Prandtl numbers. International Journal of Heat and Fluid Flow, 2021, 89, 108813.	2.4	3
23	A multi-domain 3D Euler solver for flows in solid propellant rocket motor with AFT fin. , 1992, , .		2
24	Progress In Subgrid-Scale Transport Modeling Using Partial Integration Method For LES Of Developing Turbulent Flows. , 2006, , 703-710.		2