Filipe S Pereira

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7523051/publications.pdf

Version: 2024-02-01

24	371	840776 11	839539 18
papers	citations	h-index	g-index

28	28	28	211
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of the flow around a circular cylinder at Re =3900 with Partially-Averaged Navier-Stokes equations. International Journal of Heat and Fluid Flow, 2018, 69, 234-246.	2.4	57
2	Verification and Validation exercises for the flow around the KVLCC2 tanker at model and full-scale Reynolds numbers. Ocean Engineering, 2017, 129, 133-148.	4.3	53
3	Challenges in Scale-Resolving Simulations of turbulent wake flows with coherent structures. Journal of Computational Physics, 2018, 363, 98-115.	3.8	39
4	On the simulation of the flow around a circular cylinder at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si83.gif" overflow="scroll"><mml:mrow><mml:mi>R</mml:mi><mml:mi>e</mml:mi><mml:mo>=</mml:mo><mml:mn>140</mml:mn><mml:mo> International Journal of Heat and Fluid Flow, 2019, 76, 40-56.	2.4	27
5	On code verification of RANS solvers. Journal of Computational Physics, 2016, 310, 418-439.	3.8	25
6	Viscous flow simulations at high Reynolds numbers without wall functions: Is <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si12.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mi>y</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mo>‰ƒ</mml:mo><mm enough for the near-wall cells?. Computers and Fluids, 2018, 170, 157-175.	2.5	23
7	Simulation of Wingtip Vortex Flows with Reynolds-Averaged Navierâ€“Stokes and Scale-Resolving Simulation Methods. AIAA Journal, 2019, 57, 932-948.	2.6	18
8	Toward Predictive RANS and SRS Computations of Turbulent External Flows of Practical Interest. Archives of Computational Methods in Engineering, 2021, 28, 3953-4029.	10.2	18
9	Evaluation of RANS and SRS methods for simulation of the flow around a circular cylinder in the sub-critical regime. Ocean Engineering, 2019, 186, 106067.	4.3	12
10	Effect of the numerical discretization scheme in Shock-Driven turbulent mixing simulations. Computers and Fluids, 2020, 201, 104487.	2.5	12
11	Impact of numerical hydrodynamics in turbulent mixing transition simulations. Physics of Fluids, 2021, 33, .	4.0	12
12	Modeling and simulation of transitional Taylor-Green vortex flow with partially averaged Navier-Stokes equations. Physical Review Fluids, 2021, 6, .	2.5	10
13	An assessment of Scale-Resolving Simulation models for the flow around a circular cylinder. , 2015, , .		10
14	Application of second-moment closure to statistically steady flows of practical interest. Ocean Engineering, 2019, 189, 106372.	4.3	9
15	Molecular viscosity and diffusivity effects in transitional and shock-driven mixing flows. Physical Review E, 2021, 103, 013106.	2.1	9
16	Investigating the Effect of the Closure in Partially-Averaged Navierâ€“Stokes Equations. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	8
17	Flow Past a Circular Cylinder: A Comparison Between RANS and Hybrid Turbulence Models for a Low Reynolds Number. , 2015, , .		7
18	Modeling and simulation of transitional Rayleighâ€“Taylor flow with partially averaged Navierâ€“Stokes equations. Physics of Fluids, 2021, 33, .	4.0	7

#	Article	IF	Citations
19	Partially averaged Navier-Stokes closure modeling for variable-density turbulent flow. Physical Review Fluids, 2021, 6, .	2.5	6
20	On the Numerical Prediction of the Flow Around Smooth Circular Cylinders. , 2014, , .		5
21	Validation: What, Why and How. , 2016, , .		2
22	Verification and Validation: The Path to Predictive Scale-Resolving Simulations of Turbulence. Journal of Verification, Validation and Uncertainty Quantification, 2022, 7, .	0.4	2
23	On the Numerical Prediction of Transitional Flows With Reynolds-Averaged Navier-Stokes and Scale-Resolving Simulation Models. , 2016, , .		0
24	Validation Exercises for the Calculation of the Flow Around a Squared Column With Rounded Corners at High Reynolds Numbers With the RANS Equations. , 2017, , .		0