

Filipe S Pereira

List of Publications by Year in descending order

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papers

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840776

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28
times ranked

211
citing authors

#	ARTICLE	IF	CITATIONS
1	Verification and Validation: The Path to Predictive Scale-Resolving Simulations of Turbulence. Journal of Verification, Validation and Uncertainty Quantification, 2022, 7, .	0.4	2
2	Molecular viscosity and diffusivity effects in transitional and shock-driven mixing flows. Physical Review E, 2021, 103, 013106.	2.1	9
3	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
4	Impact of numerical hydrodynamics in turbulent mixing transition simulations. Physics of Fluids, 2021, 33, .	4.0	12
5	Modeling and simulation of transitional Taylor-Green vortex flow with partially averaged Navier-Stokes equations. Physical Review Fluids, 2021, 6, .	2.5	10
6	Partially averaged Navier-Stokes closure modeling for variable-density turbulent flow. Physical Review Fluids, 2021, 6, .	2.5	6
7	Modeling and simulation of transitional Rayleigh-Taylor flow with partially averaged Navier-Stokes equations. Physics of Fluids, 2021, 33, .	4.0	7
8	Effect of the numerical discretization scheme in Shock-Driven turbulent mixing simulations. Computers and Fluids, 2020, 201, 104487.	2.5	12
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	Application of second-moment closure to statistically steady flows of practical interest. Ocean Engineering, 2019, 189, 106372.	4.3	9
11	On the simulation of the flow around a circular cylinder at $Re = 140$. International Journal of Heat and Fluid Flow, 2019, 76, 40-56.	2.4	27
12	Investigating the Effect of the Closure in Partially-Averaged Navier-Stokes Equations. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	1.5	8
13	Simulation of Wingtip Vortex Flows with Reynolds-Averaged Navier-Stokes and Scale-Resolving Simulation Methods. AIAA Journal, 2019, 57, 932-948.	2.6	18
14	Challenges in Scale-Resolving Simulations of turbulent wake flows with coherent structures. Journal of Computational Physics, 2018, 363, 98-115.	3.8	39
15	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
16	Viscous flow simulations at high Reynolds numbers without wall functions: Is $y^+ > 5$ enough for the near-wall cells?. Computers and Fluids, 2018, 170, 157-175.	2.5	23
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	On the Numerical Prediction of Transitional Flows With Reynolds-Averaged Navier-Stokes and Scale-Resolving Simulation Models. , 2016, , .		0
20	Validation: What, Why and How. , 2016, , .		2
21	On code verification of RANS solvers. Journal of Computational Physics, 2016, 310, 418-439.	3.8	25
22	Flow Past a Circular Cylinder: A Comparison Between RANS and Hybrid Turbulence Models for a Low Reynolds Number. , 2015, , .		7
23	An assessment of Scale-Resolving Simulation models for the flow around a circular cylinder. , 2015, , .		10
24	On the Numerical Prediction of the Flow Around Smooth Circular Cylinders. , 2014, , .		5