

Philippe R Spalart

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28
papers

4,149
citations

15
h-index

29
g-index

29
ext. papers

4,824
ext. citations

2.9
avg, IF

5.81
L-index

#	Paper	IF	Citations
28	Analysis and extension of the quadratic constitutive relation for RANS methods. <i>Aeronautical Journal</i> , 2021 , 125, 1746-1767	0.9	
27	Empirical scaling laws for wall-bounded turbulence deduced from direct numerical simulations. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	2
26	Direct numerical simulation of the two-dimensional speed bump flow at increasing Reynolds numbers. <i>International Journal of Heat and Fluid Flow</i> , 2021 , 90, 108840	2.4	1
25	Wall-Modeled LES of Flow over a Gaussian Bump with Strong Pressure Gradients and Separation 2020 ,		3
24	Improvements to the Quadratic Constitutive Relation Based on NASA Juncture Flow Data. <i>AIAA Journal</i> , 2020 , 58, 4374-4384	2.1	12
23	Correction to the Spalart-Allmaras Turbulence Model, Providing More Accurate Skin Friction. <i>AIAA Journal</i> , 2020 , 58, 1903-1905	2.1	8
22	Numerical study of a turbulent separation bubble with sweep. <i>Journal of Fluid Mechanics</i> , 2019 , 880, 684-706	3.7	3
21	On the differences in noise predictions based on solid and permeable surface Ffowcs Williams-Hawkings integral solutions. <i>International Journal of Aeroacoustics</i> , 2019 , 18, 621-646	2.1	7
20	On the skin friction due to turbulence in ducts of various shapes. <i>Journal of Fluid Mechanics</i> , 2018 , 838, 369-378	3.7	11
19	Numerical study of turbulent separation bubbles with varying pressure gradient and Reynolds number. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 28-70	3.7	31
18	Direct Numerical Simulation and Theory of a Wall-Bounded Flow with Zero Skin Friction. <i>Flow, Turbulence and Combustion</i> , 2017 , 99, 553-564	2.5	9
17	Direct Simulation and RANS Modelling of a Vortex Generator Flow. <i>Flow, Turbulence and Combustion</i> , 2015 , 95, 335-350	2.5	23
16	Direct Numerical Simulation, Theories and Modelling of Wall Turbulence with a Range of Pressure Gradients. <i>Flow, Turbulence and Combustion</i> , 2015 , 95, 261-276	2.5	9
15	RANS Solutions in Couette flow with streamwise vortices. <i>International Journal of Heat and Fluid Flow</i> , 2014 , 49, 128-134	2.4	9
14	On the precise implications of acoustic analogies for aerodynamic noise at low Mach numbers. <i>Journal of Sound and Vibration</i> , 2013 , 332, 2808-2815	3.9	18
13	Predictions of a Supersonic Turbulent Flow in a Square Duct 2013 ,		47
12	The resilience of the logarithmic law to pressure gradients: evidence from direct numerical simulation. <i>Journal of Fluid Mechanics</i> , 2010 , 643, 163-175	3.7	17

11	Noise Prediction for Increasingly Complex Jets. Part I: Methods and Tests. <i>International Journal of Aeroacoustics</i> , 2005 , 4, 213-245	2.1	241
10	Direct numerical simulation of a decelerated wall-bounded turbulent shear flow. <i>Journal of Fluid Mechanics</i> , 2003 , 495, 1-18	3.7	26
9	Strategies for turbulence modelling and simulations. <i>International Journal of Heat and Fluid Flow</i> , 2000 , 21, 252-263	2.4	848
8	Mechanisms of transition and heat transfer in a separation bubble. <i>Journal of Fluid Mechanics</i> , 2000 , 403, 329-349	3.7	217
7	Trends in turbulence treatments 2000 ,		126
6	Turbulence Modeling in Rotating and Curved Channels: Assessing the Spalart-Shur Correction. <i>AIAA Journal</i> , 2000 , 38, 784-792	2.1	336
5	A note on constraints in turbulence modelling. <i>Journal of Fluid Mechanics</i> , 1999 , 391, 373-376	3.7	12
4	Experimental and numerical study of a turbulent boundary layer with pressure gradients. <i>Journal of Fluid Mechanics</i> , 1993 , 249, 337	3.7	268
3	Spectral methods for the Navier-Stokes equations with one infinite and two periodic directions. <i>Journal of Computational Physics</i> , 1991 , 96, 297-324	4.1	458
2	Direct simulation of a turbulent boundary layer up to $Re = 1410$. <i>Journal of Fluid Mechanics</i> , 1988 , 187, 61-98	3.7	1385
1	On the Application of Incomplete Ffowcs Williams and Hawkings Surfaces for Aeroacoustic Predictions. <i>AIAA Journal</i> , 1-7	2.1	0