

# Philippe R Spalart

## List of Publications by Citations

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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	Direct simulation of a turbulent boundary layer up to $Re = 1410$ . <i>Journal of Fluid Mechanics</i> , <b>1988</b> , 187, 61-98	3.7	1385
27	Strategies for turbulence modelling and simulations. <i>International Journal of Heat and Fluid Flow</i> , <b>2000</b> , 21, 252-263	2.4	848
26	Spectral methods for the Navier-Stokes equations with one infinite and two periodic directions. <i>Journal of Computational Physics</i> , <b>1991</b> , 96, 297-324	4.1	458
25	Turbulence Modeling in Rotating and Curved Channels: Assessing the Spalart-Shur Correction. <i>AIAA Journal</i> , <b>2000</b> , 38, 784-792	2.1	336
24	Experimental and numerical study of a turbulent boundary layer with pressure gradients. <i>Journal of Fluid Mechanics</i> , <b>1993</b> , 249, 337	3.7	268
23	Noise Prediction for Increasingly Complex Jets. Part I: Methods and Tests. <i>International Journal of Aeroacoustics</i> , <b>2005</b> , 4, 213-245	2.1	241
22	Mechanisms of transition and heat transfer in a separation bubble. <i>Journal of Fluid Mechanics</i> , <b>2000</b> , 403, 329-349	3.7	217
21	Trends in turbulence treatments <b>2000</b> ,		126
20	Predictions of a Supersonic Turbulent Flow in a Square Duct <b>2013</b> ,		47
19	Numerical study of turbulent separation bubbles with varying pressure gradient and Reynolds number. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 847, 28-70	3.7	31
18	Direct numerical simulation of a decelerated wall-bounded turbulent shear flow. <i>Journal of Fluid Mechanics</i> , <b>2003</b> , 495, 1-18	3.7	26
17	Direct Simulation and RANS Modelling of a Vortex Generator Flow. <i>Flow, Turbulence and Combustion</i> , <b>2015</b> , 95, 335-350	2.5	23
16	On the precise implications of acoustic analogies for aerodynamic noise at low Mach numbers. <i>Journal of Sound and Vibration</i> , <b>2013</b> , 332, 2808-2815	3.9	18
15	The resilience of the logarithmic law to pressure gradients: evidence from direct numerical simulation. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 643, 163-175	3.7	17
14	Improvements to the Quadratic Constitutive Relation Based on NASA Juncture Flow Data. <i>AIAA Journal</i> , <b>2020</b> , 58, 4374-4384	2.1	12
13	A note on constraints in turbulence modelling. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 391, 373-376	3.7	12
12	On the skin friction due to turbulence in ducts of various shapes. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 838, 369-378	3.7	11

11	Direct Numerical Simulation, Theories and Modelling of Wall Turbulence with a Range of Pressure Gradients. <i>Flow, Turbulence and Combustion</i> , <b>2015</b> , 95, 261-276	2.5	9
10	RANS Solutions in Couette flow with streamwise vortices. <i>International Journal of Heat and Fluid Flow</i> , <b>2014</b> , 49, 128-134	2.4	9
9	Direct Numerical Simulation and Theory of a Wall-Bounded Flow with Zero Skin Friction. <i>Flow, Turbulence and Combustion</i> , <b>2017</b> , 99, 553-564	2.5	9
8	Correction to the Spalart-Allmaras Turbulence Model, Providing More Accurate Skin Friction. <i>AIAA Journal</i> , <b>2020</b> , 58, 1903-1905	2.1	8
7	On the differences in noise predictions based on solid and permeable surface Ffowcs Williams-Hawkings integral solutions. <i>International Journal of Aeroacoustics</i> , <b>2019</b> , 18, 621-646	2.1	7
6	Wall-Modeled LES of Flow over a Gaussian Bump with Strong Pressure Gradients and Separation <b>2020</b> ,		3
5	Numerical study of a turbulent separation bubble with sweep. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 880, 684-706	3.7	3
4	Empirical scaling laws for wall-bounded turbulence deduced from direct numerical simulations. <i>Physical Review Fluids</i> , <b>2021</b> , 6,	2.8	2
3	Direct numerical simulation of the two-dimensional speed bump flow at increasing Reynolds numbers. <i>International Journal of Heat and Fluid Flow</i> , <b>2021</b> , 90, 108840	2.4	1
2	On the Application of Incomplete Ffowcs Williams and Hawkings Surfaces for Aeroacoustic Predictions. <i>AIAA Journal</i> , 1-7	2.1	0
1	Analysis and extension of the quadratic constitutive relation for RANS methods. <i>Aeronautical Journal</i> , <b>2021</b> , 125, 1746-1767	0.9	