Christopher M White

List of Publications by Year
in descending order

37 papers	2,644 citations	516215 16 h-index	433756 31 g-index
37 all docs	37 docs citations	37 times ranked	1684 citing authors

#	Article	IF	Citations
1	The hydrogen-fueled internal combustion engine: a technical review. International Journal of Hydrogen Energy, 2006, 31, 1292-1305.	3.8	806
2	Mechanics and Prediction of Turbulent Drag Reduction with Polymer Additives. Annual Review of Fluid Mechanics, 2008, 40, 235-256.	10.8	571
3	The onset of drag reduction by dilute polymer additives, and the maximum drag reduction asymptote. Journal of Fluid Mechanics, 2000, 409, 149-164.	1.4	263
4	On the coherent drag-reducing and turbulence-enhancing behaviour of polymers in wall flows. Journal of Fluid Mechanics, 2004, 514, 271-280.	1.4	224
5	The turbulence structure of drag-reduced boundary layer flow. Experiments in Fluids, 2004, 36, 62-69.	1.1	133
6	New Answers on the Interaction Between Polymers and Vortices in Turbulent Flows. Flow, Turbulence and Combustion, 2005, 74, 311-329.	1.4	107
7	Streamwise velocity statistics in turbulent boundary layers that spatially develop to high Reynolds number. Experiments in Fluids, 2013, 54, 1.	1.1	57
8	The decay of grid turbulence in polymer and surfactant solutions. Physics of Fluids, 1999, 11, 2387-2393.	1.6	50
9	The Use of Particle Image Velocimetry in the Study of Turbulence in Liquid Helium. Journal of Low Temperature Physics, 2002, 126, 327-332.	0.6	47
10	Re-examining the logarithmic dependence of the mean velocity distribution in polymer drag reduced wall-bounded flow. Physics of Fluids, 2012, 24, .	1.6	43
11	Integral form of the skin friction coefficient suitable for experimental data. Experiments in Fluids, 2011, 50, 43-51.	1.1	39
12	On determining wall shear stress in spatially developing two-dimensional wall-bounded flows. Experiments in Fluids, 2014, 55, 1.	1.1	32
13	PIV and PLIF to Evaluate Mixture Formation in a Direct-Injection Hydrogen-Fuelled Engine. SAE International Journal of Engines, 0, 1, 657-668.	0.4	29
14	Mean force structure and its scaling in rough-wall turbulent boundary layers. Journal of Fluid Mechanics, 2013, 731, 682-712.	1.4	28
15	High-Reynolds-number turbulence in small apparatus: grid turbulence in cryogenic liquids. Journal of Fluid Mechanics, 2002, 452, 189-197.	1.4	23
16	A uniform momentum zoneâ€"vortical fissure model of the turbulent boundary layer. Journal of Fluid Mechanics, 2019, 858, 609-633.	1.4	19
17	Properties of the mean momentum balance in polymer drag-reduced channel flow. Journal of Fluid Mechanics, 2018, 834, 409-433.	1.4	17
18	Efficacy of single-component MTV to measure turbulent wall-flow velocity derivative profiles at high resolution. Experiments in Fluids, 2017, 58, 1.	1.1	16

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19	A Qualitative Evaluation of Mixture Formation in a Direct-Injection Hydrogen-Fuelled Engine. , 0, , .		15
20	Mean momentum balance analysis of rough-wall turbulent boundary layers. Physica D: Nonlinear Phenomena, 2010, 239, 1329-1337.	1.3	15
21	A self-sustaining process theory for uniform momentum zones and internal shear layers in high Reynolds number shear flows. Journal of Fluid Mechanics, 2020, 901, .	1.4	13
22	OH* chemiluminescence measurements in a direct injection hydrogen-fuelled internal combustion engine. International Journal of Engine Research, 2007, 8, 185-204.	1.4	12
23	An exact integral method to evaluate wall heat flux in spatially developing two-dimensional wall-bounded flows. International Journal of Heat and Mass Transfer, 2015, 84, 856-861.	2.5	12
24	Does molecular rotation affect the transition Reynolds number?. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 238, 323-327.	0.9	11
25	Lean Hydrogen Combustion. , 2008, , 213-VIII.		11
26	High-fidelity measurements in channel flow with polymer wall injection. Journal of Fluid Mechanics, 2019, 859, 851-886.	1.4	9
27	A self-sustaining process model of inertial layer dynamics in high Reynolds number turbulent wall flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160090.	1.6	8
28	Properties of the inertial sublayer in adverse pressure-gradient turbulent boundary layers. Journal of Fluid Mechanics, 2022, 937, .	1.4	8
29	Echo Particle Image Velocimetry. Journal of Visualized Experiments, 2012, , .	0.2	7
30	Boundary Layer Studies on Polymer Drag Reduction Using PIV and PLIF. , 2003, , 763.		4
31	An integral validation technique of RANS turbulence models. Computers and Fluids, 2017, 149, 150-159.	1.3	4
32	Mean dynamics and transition to turbulence in oscillatory channel flow. Journal of Fluid Mechanics, 2019, 880, 864-889.	1.4	4
33	A heat transfer model of fully developed turbulent channel flow. Journal of Fluid Mechanics, 2020, 884, .	1.4	4
34	Laser wipers. Physical Review E, 2000, 62, 4421-4423.	0.8	2
35	The Design and Validation of a Thermal Boundary Layer Wall Plate. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, .	0.8	1
36	Evaluation of the momentum integral method to determine the wall skin friction in separated flows. Experiments in Fluids, 2020, 61, 1.	1.1	0

#	Article	IF	Citations
37	Turbulence Production in the Low Polymer Drag Reduction Regime. Springer Proceedings in Physics, 2019, , 105-110.	0.1	0