

# Simon Illingworth

## List of Publications by Year in descending order

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30  
papers

499  
citations

686830

13  
h-index

676716

22  
g-index

30  
all docs

30  
docs citations

30  
times ranked

363  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal sensor and actuator placement for feedback control of vortex shedding. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	1.4	8
2	Navier-Stokes-based linear model for unstably stratified turbulent channel flows. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	3
3	Resolvent-based approach for $H_2$ -optimal estimation and control: an application to the cylinder flow. <i>Theoretical and Computational Fluid Dynamics</i> , 2022, 36, 491-515.	0.9	5
4	Linear control of coherent structures in wall-bounded turbulence at $Re = 2000$ . <i>International Journal of Heat and Fluid Flow</i> , 2021, 87, 108735.	1.1	1
5	Energy transfer in turbulent channel flows and implications for resolvent modelling. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	1.4	34
6	Energy transfer mechanisms and resolvent analysis in the cylinder wake. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	12
7	Linear-model-based estimation in wall turbulence: improved stochastic forcing and eddy viscosity terms. <i>Journal of Fluid Mechanics</i> , 2021, 925, .	1.4	16
8	A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	1.4	8
9	Feedback control of vortex shedding using a resolvent-based modelling approach. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	1.4	10
10	Streamwise-constant large-scale structures in Couette and Poiseuille flows. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	1.4	9
11	Energy transfer mechanisms and resolvent analysis in the cylinder wake. , 2020, , .		1
12	Model-based estimation of vortex shedding in unsteady cylinder wakes. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	0
13	Large-scale structures predicted by linear models of wall-bounded turbulence. <i>Journal of Physics: Conference Series</i> , 2020, 1522, 012006.	0.3	2
14	Nonlinear reduced-order modeling of the forced and autonomous aeroelastic response of a membrane wing using Harmonic Balance methods. <i>Journal of Fluids and Structures</i> , 2019, 91, 102699.	1.5	4
15	Coherent structures in the linearized impulse response of turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2019, 863, 1190-1203.	1.4	22
16	Coherent large-scale structures from the linearized Navier-Stokes equations. <i>Journal of Fluid Mechanics</i> , 2019, 873, 89-109.	1.4	33
17	Estimating large-scale structures in wall turbulence using linear models. <i>Journal of Fluid Mechanics</i> , 2018, 842, 146-162.	1.4	76
18	Reduced-order modeling and feedback control of a flexible wing at low Reynolds numbers. <i>Journal of Fluids and Structures</i> , 2018, 79, 137-157.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Sensor and actuator placement trade-offs for a linear model of spatially developing flows. <i>Journal of Fluid Mechanics</i> , 2018, 854, 34-55.	1.4	17
20	Model-based control of vortex shedding at low Reynolds numbers. <i>Theoretical and Computational Fluid Dynamics</i> , 2016, 30, 429-448.	0.9	13
21	Frequency domain and time domain analysis of thermoacoustic oscillations with wave-based acoustics. <i>Journal of Fluid Mechanics</i> , 2015, 775, 387-414.	1.4	39
22	Active control of vortex shedding: An explanation of the gain window. <i>Physical Review E</i> , 2014, 90, 043014.	0.8	15
23	Finding thermoacoustic limit cycles for a ducted Burke-Schumann flame. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 911-920.	2.4	17
24	Matrix-free continuation of limit cycles for bifurcation analysis of large thermoacoustic systems. <i>Journal of Computational Physics</i> , 2013, 240, 225-247.	1.9	26
25	Feedback control of cavity flow oscillations using simple linear models. <i>Journal of Fluid Mechanics</i> , 2012, 709, 223-248.	1.4	35
26	Feedback control of flow resonances using balanced reduced-order models. <i>Journal of Sound and Vibration</i> , 2011, 330, 1567-1581.	2.1	57
27	Adaptive Feedback Control of Combustion Instability in Annular Combustors. <i>Combustion Science and Technology</i> , 2010, 182, 143-164.	1.2	19
28	Advances in feedback control of the Rijke tube thermoacoustic instability. <i>International Journal of Flow Control</i> , 2010, 2, 197-218.	0.4	6
29	Adaptive Control of Combustion Instabilities for Unknown Sign of the High Frequency Gain. , 2008, , .		3
30	Adaptive Control of Combustion Instabilities in Annular Combustors. , 2008, , .		2