

Simon Illingworth

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

499
citations

686830

13
h-index

676716

22
g-index

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all docs

30
docs citations

30
times ranked

363
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimating large-scale structures in wall turbulence using linear models. <i>Journal of Fluid Mechanics</i> , 2018, 842, 146-162.	1.4	76
2	Feedback control of flow resonances using balanced reduced-order models. <i>Journal of Sound and Vibration</i> , 2011, 330, 1567-1581.	2.1	57
3	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
4	Feedback control of cavity flow oscillations using simple linear models. <i>Journal of Fluid Mechanics</i> , 2012, 709, 223-248.	1.4	35
5	Energy transfer in turbulent channel flows and implications for resolvent modelling. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	1.4	34
6	Coherent large-scale structures from the linearized Navier–Stokes equations. <i>Journal of Fluid Mechanics</i> , 2019, 873, 89-109.	1.4	33
7	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
8	Coherent structures in the linearized impulse response of turbulent channel flow. <i>Journal of Fluid Mechanics</i> , 2019, 863, 1190-1203.	1.4	22
9	Adaptive Feedback Control of Combustion Instability in Annular Combustors. <i>Combustion Science and Technology</i> , 2010, 182, 143-164.	1.2	19
10	Finding thermoacoustic limit cycles for a ducted Burke-Schumann flame. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 911-920.	2.4	17
11	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
12	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
13	Active control of vortex shedding: An explanation of the gain window. <i>Physical Review E</i> , 2014, 90, 043014.	0.8	15
14	Model-based control of vortex shedding at low Reynolds numbers. <i>Theoretical and Computational Fluid Dynamics</i> , 2016, 30, 429-448.	0.9	13
15	Energy transfer mechanisms and resolvent analysis in the cylinder wake. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	12
16	Feedback control of vortex shedding using a resolvent-based modelling approach. <i>Journal of Fluid Mechanics</i> , 2020, 897, .	1.4	10
17	Streamwise-constant large-scale structures in Couette and Poiseuille flows. <i>Journal of Fluid Mechanics</i> , 2020, 889, .	1.4	9
18	A direct comparison of pulsatile and non-pulsatile rough-wall turbulent pipe flow. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	1.4	8

#	ARTICLE	IF	CITATIONS
19	Optimal sensor and actuator placement for feedback control of vortex shedding. Journal of Fluid Mechanics, 2022, 932, .	1.4	8
20	Reduced-order modeling and feedback control of a flexible wing at low Reynolds numbers. Journal of Fluids and Structures, 2018, 79, 137-157.	1.5	6
21	Advances in feedback control of the Rijke tube thermoacoustic instability. International Journal of Flow Control, 2010, 2, 197-218.	0.4	6
22	Resolvent-based approach for H_2 -optimal estimation and control: an application to the cylinder flow. Theoretical and Computational Fluid Dynamics, 2022, 36, 491-515.	0.9	5
23	Nonlinear reduced-order modeling of the forced and autonomous aeroelastic response of a membrane wing using Harmonic Balance methods. Journal of Fluids and Structures, 2019, 91, 102699.	1.5	4
24	Adaptive Control of Combustion Instabilities for Unknown Sign of the High Frequency Gain. , 2008, , .		3
25	Navier-Stokes-based linear model for unstably stratified turbulent channel flows. Physical Review Fluids, 2022, 7, .	1.0	3
26	Adaptive Control of Combustion Instabilities in Annular Combustors. , 2008, , .		2
27	Large-scale structures predicted by linear models of wall-bounded turbulence. Journal of Physics: Conference Series, 2020, 1522, 012006.	0.3	2
28	Linear control of coherent structures in wall-bounded turbulence at $Re = 2000$. International Journal of Heat and Fluid Flow, 2021, 87, 108735.	1.1	1
29	Energy transfer mechanisms and resolvent analysis in the cylinder wake. , 2020, , .		1
30	Model-based estimation of vortex shedding in unsteady cylinder wakes. Physical Review Fluids, 2020, 5, .	1.0	0