Lutz Lesshafft

List of Publications by Year in descending order

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535685 445137 1,103 43 17 33 citations h-index g-index papers 45 45 45 628 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Self-similar mechanisms in wall turbulence studied using resolvent analysis. Journal of Fluid Mechanics, 2022, 939, .	1.4	16
2	Linear instability of a premixed slot flame: Flame transfer function and resolvent analysis. Combustion and Flame, 2022, 240, 112016.	2.8	7
3	An empirical model of noise sources in subsonic jets, formulated in a linear resolvent framework. , 2022, , .		1
4	The effect of streaks on the instability of jets. Journal of Fluid Mechanics, 2021, 910, .	1.4	8
5	Global stability and nonlinear dynamics of wake flows with a two-fluid interface. Journal of Fluid Mechanics, 2021, 915, .	1.4	5
6	Optimal triggering of jet bifurcation: an example of optimal forcing applied to a time-periodic base flow. Journal of Fluid Mechanics, 2020, 885, .	1.4	7
7	Resolvent-based optimal estimation of transitional and turbulent flows. Journal of Fluid Mechanics, 2020, 900, .	1.4	31
8	Ambiguity in mean-flow-based linear analysis. Journal of Fluid Mechanics, 2020, 900, .	1.4	19
9	Data assimilation and resolvent analysis of turbulent flow behind a wall-proximity rib. Physics of Fluids, 2019, 31, .	1.6	23
10	Wave-Packet Models for Jet Dynamics and Sound Radiation. Applied Mechanics Reviews, 2019, 71, .	4.5	80
11	Vortex pairing in jets as a global Floquet instability: modal and transient dynamics. Journal of Fluid Mechanics, 2019, 862, 951-989.	1.4	10
12	Resolvent-based modeling of coherent wave packets in a turbulent jet. Physical Review Fluids, 2019, 4, .	1.0	67
13	Prediction of the Flow Response of a Turbulent Flame to Acoustic Pertubations Based on Mean Flow Resolvent Analysis. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	6
14	Real-Time Estimation in a Turbulent Jet Using Multiple-Input-Multiple-Output Transfer Functions. , 2019,		0
15	Prediction of the Flow Response of a Turbulent Flame to Acoustic Pertubations Based on Mean Flow Resolvent Analysis. , 2019, , .		0
16	Global stability of buoyant jets and plumes. Journal of Fluid Mechanics, 2018, 835, 654-673.	1.4	32
17	Artificial eigenmodes in truncated flow domains. Theoretical and Computational Fluid Dynamics, 2018, 32, 245-262.	0.9	20
18	The influence of shear on double-diffusive and settling-driven instabilities. Journal of Fluid Mechanics, 2018, 849, 902-926.	1.4	5

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19	Global instability of low-density jets. Journal of Fluid Mechanics, 2017, 820, 187-207.	1.4	33
20	Time-delayed feedback technique for suppressing instabilities in time-periodic flow. Physical Review Fluids, $2017, 2, .$	1.0	12
21	Conditions for validity of mean flow stabilityÂanalysis. Journal of Fluid Mechanics, 2016, 798, 485-504.	1.4	136
22	Can Jet Noise Be Predicted Using Linear Instability Wavepackets?. Springer Proceedings in Physics, 2016, , 413-418.	0.1	0
23	Modeling of coherent structures in a turbulent jet as global linear instability wavepackets: Theory and experiment. International Journal of Heat and Fluid Flow, 2016, 62, 24-32.	1.1	24
24	Stochastic and harmonic optimal forcing in subsonic jets. , 2016, , .		20
25	Effect of Buoyancy on the Instability of Light Jets and Plumes. Springer Proceedings in Physics, 2016, , 61-67.	0.1	1
26	Local linear stability of laminar axisymmetricÂplumes. Journal of Fluid Mechanics, 2015, 780, 344-369.	1.4	11
27	Modal Instability Analysis of Light Jets. Procedia IUTAM, 2015, 14, 137-140.	1.2	1
28	Linear global stability of a confined plume. Theoretical and Applied Mechanics Letters, 2015, 5, 126-128.	1.3	5
29	Preface to this Festschrift for Patrick Huerre. European Journal of Mechanics, B/Fluids, 2015, 49, 299-300.	1.2	2
30	The preferred mode of incompressible jets: linear frequency response analysis. Journal of Fluid Mechanics, 2013, 716, 189-202.	1.4	133
31	Modal and transient dynamics of jet flows. Physics of Fluids, 2013, 25, .	1.6	63
32	Global response to forcing in a subsonic jet: instability wavepackets and acoustic radiation. , 2013, , .		3
33	A relaxation method for large eigenvalue problems, with an application to flow stability analysis. Journal of Computational Physics, 2012, 231, 3912-3927.	1.9	16
34	Global linear stability of a model subsonic jet. , 2011, , .		1
35	Deep-water sediment wave formation: linear stability analysis of coupled flow/bed interaction. Journal of Fluid Mechanics, 2011, 680, 435-458.	1.4	11
36	Towards inverse modeling of turbidity currents: The inverse lock-exchange problem. Computers and Geosciences, 2011, 37, 521-529.	2.0	11

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37	Aerodynamic sound generation by global modes in hot jets. Journal of Fluid Mechanics, 2010, 647, 473-489.	1.4	14
38	Optimal velocity and density profiles for the onset of absolute instability in jets. Journal of Fluid Mechanics, 2010, 662, 398-408.	1.4	39
39	Convective/absolute instability in miscible core-annular flow. Part 2. Numerical simulations and nonlinear global modes. Journal of Fluid Mechanics, 2009, 618, 323-348.	1.4	44
40	Linear impulse response in hot round jets. Physics of Fluids, 2007, 19, 024102.	1.6	81
41	Frequency selection in globally unstable round jets. Physics of Fluids, 2007, 19, 054108.	1.6	43
42	Nonlinear global modes in hot jets. Journal of Fluid Mechanics, 2006, 554, 393.	1.4	58
43	Global Modes in Hot Jets, Absolute/Convective Instabilities and Acoustic Feedback. , 2005, , .		4