

Luca Magri

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

789
citations

471477

17
h-index

552766

26
g-index

52
all docs

52
docs citations

52
times ranked

304
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity analysis of a time-delayed thermo-acoustic system via an adjoint-based approach. Journal of Fluid Mechanics, 2013, 719, 183-202.	3.4	81
2	Compositional inhomogeneities as a source of indirect combustion noise. Journal of Fluid Mechanics, 2016, 799, .	3.4	58
3	Stability analysis of thermo-acoustic nonlinear eigenproblems in annular combustors. Part II. Uncertainty quantification. Journal of Computational Physics, 2016, 325, 411-421.	3.8	40
4	Adjoint Methods as Design Tools in Thermoacoustics. Applied Mechanics Reviews, 2019, 71, .	10.1	39
5	Uncertainty Quantification of Growth Rates of Thermoacoustic Instability by an Adjoint Helmholtz Solver. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	34
6	Global modes, receptivity, and sensitivity analysis of diffusion flames coupled with duct acoustics. Journal of Fluid Mechanics, 2014, 752, 237-265.	3.4	33
7	Robust Optimization and Validation of Echo State Networks for learning chaotic dynamics. Neural Networks, 2021, 142, 252-268.	5.9	33
8	Lyapunov exponent as a metric for assessing the dynamic content and predictability of large-eddy simulations. Physical Review Fluids, 2017, 2, .	2.5	33
9	Exceptional points in the thermoacoustic spectrum. Journal of Sound and Vibration, 2018, 433, 124-128.	3.9	30
10	Stability analysis of thermo-acoustic nonlinear eigenproblems in annular combustors. Part I. Sensitivity. Journal of Computational Physics, 2016, 325, 395-410.	3.8	27
11	Physics-informed echo state networks. Journal of Computational Science, 2020, 47, 101237.	2.9	27
12	On indirect noise in multicomponent nozzle flows. Journal of Fluid Mechanics, 2017, 828, .	3.4	26
13	Effects of Asymmetry on Thermoacoustic Modes in Annular Combustors: A Higher-Order Perturbation Study. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	23
14	Stability, sensitivity and optimisation of chaotic acoustic oscillations. Journal of Fluid Mechanics, 2020, 882, .	3.4	21
15	Sensitivity of the Rayleigh criterion in thermoacoustics. Journal of Fluid Mechanics, 2020, 882, .	3.4	20
16	Adjoint-Based Linear Analysis in Reduced-Order Thermo-Acoustic Models. International Journal of Spray and Combustion Dynamics, 2014, 6, 225-246.	1.0	19
17	Physics-Informed Echo State Networks for Chaotic Systems Forecasting. Lecture Notes in Computer Science, 2019, , 192-198.	1.3	19
18	Adjoint-based sensitivity analysis of low-order thermoacoustic networks using a wave-based approach. Journal of Computational Physics, 2017, 341, 163-181.	3.8	17

#	ARTICLE	IF	CITATIONS
19	Flow Inhomogeneities in a Realistic Aeronautical Gas-Turbine Combustor: Formation, Evolution, and Indirect Noise. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	17
20	Short- and long-term predictions of chaotic flows and extreme events: a physics-constrained reservoir computing approach. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20210135.	2.1	16
21	Methods for the Calculation of Thermoacoustic Stability Boundaries and Monte Carlo-Free Uncertainty Quantification. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	1.1	14
22	Thermoacoustic Modes of Quasi-One-Dimensional Combustors in the Region of Marginal Stability. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	13
23	Non-normality in combustionâ€™acoustic interaction in diffusion flames: a critical revision. <i>Journal of Fluid Mechanics</i> , 2013, 733, 681-683.	3.4	12
24	Compositional and entropy indirect noise generated in subsonic non-isentropic nozzles. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	3.4	12
25	A Theoretical Approach for Passive Control of Thermoacoustic Oscillations: Application to Ducted Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2013, 135, .	1.1	11
26	Combined state and parameter estimation in level-set methods. <i>Journal of Computational Physics</i> , 2019, 399, 108950.	3.8	11
27	Gradient-free optimization of chaotic acoustics with reservoir computing. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	11
28	Effects of Nozzle Helmholtz Number on Indirect Combustion Noise by Compositional Perturbations. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	1.1	10
29	A data-driven kinematic model of a ducted premixed flame. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 6231-6239.	3.9	9
30	Data Assimilation and Optimal Calibration in Nonlinear Models of Flame Dynamics. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	1.1	9
31	On the use of the theory of dynamical systems for transient problems. <i>Nonlinear Dynamics</i> , 2013, 74, 373-380.	5.2	8
32	Uncertainty Quantification of Growth Rates of Thermoacoustic Instability by an Adjoint Helmholtz Solver. , 2016, , .		8
33	Degenerate perturbation theory in thermoacoustics: high-order sensitivities and exceptional points. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	3.4	8
34	Example of a non-smooth Hopf bifurcation in an aero-elastic system. <i>Mechanics Research Communications</i> , 2012, 40, 26-33.	1.8	7
35	A physical model for indirect noise in non-isentropic nozzles: transfer functions and stability. <i>Journal of Fluid Mechanics</i> , 2022, 935, .	3.4	6
36	Optimisation of chaotically perturbed acoustic limit cycles. <i>Nonlinear Dynamics</i> , 2020, 100, 1641-1657.	5.2	4

#	ARTICLE	IF	CITATIONS
37	Using adjoint-based optimization to enhance ignition in non-premixed jets. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200472.	2.1	4
38	Learning Ergodic Averages in Chaotic Systems. Lecture Notes in Computer Science, 2020, , 124-132.	1.3	4
39	Learning Hidden States in a Chaotic System: A Physics-Informed Echo State Network Approach. Lecture Notes in Computer Science, 2020, , 117-123.	1.3	3
40	Effects of Nozzle Helmholtz Number on Indirect Combustion Noise by Compositional Perturbations. , 2017, , .		2
41	Methods for the Calculation of Thermoacoustic Stability Margins and Monte Carlo-Free Uncertainty Quantification. , 2017, , .		2
42	Flow Inhomogeneities in a Realistic Aeronautical Gas-Turbine Combustor: Formation, Evolution and Indirect Noise. , 2018, , .		1
43	Automatic-differentiated Physics-Informed Echo State Network (API-ESN). Lecture Notes in Computer Science, 2021, , 323-329.	1.3	1
44	Effects of Asymmetry on Thermoacoustic Modes in Annular Combustors: A Higher-Order Perturbation Study. , 2018, , .		1
45	Physics-Informed Data-Driven Prediction of Turbulent Reacting Flows with Lyapunov Analysis and Sequential Data Assimilation. , 2020, , 177-196.		1
46	A Novel Theoretical Approach to Passive Control of Thermo-Acoustic Oscillations: Application to Ducted Heat Sources. , 2013, , .		0
47	Adjoint characteristic decomposition of one-dimensional waves. Journal of Computational Physics, 2019, 388, 454-461.	3.8	0
48	A Hybrid Adjoint Network Model for Thermoacoustic Optimization. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	1.1	0
49	Thermoacoustic Modes of Quasi-1D Combustors in the Region of Marginal Stability. , 2018, , .		0
50	Data Assimilation and Optimal Calibration in Nonlinear Models of Flame Dynamics. , 2019, , .		0