

# Laurent Cordier

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6264738/publications.pdf>

Version: 2024-02-01

31  
papers

1,387  
citations

516710

16  
h-index

477307

29  
g-index

31  
all docs

31  
docs citations

31  
times ranked

893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimal rotary control of the cylinder wake using proper orthogonal decomposition reduced-order model. <i>Physics of Fluids</i> , 2005, 17, 097101.	4.0	229
2	Cluster-based reduced-order modelling of a mixing layer. <i>Journal of Fluid Mechanics</i> , 2014, 754, 365-414.	3.4	204
3	Optimal control of the cylinder wake in the laminar regime by trust-region methods and POD reduced-order models. <i>Journal of Computational Physics</i> , 2008, 227, 7813-7840.	3.8	161
4	Examination of large-scale structures in a turbulent plane mixing layer. Part 1. Proper orthogonal decomposition. <i>Journal of Fluid Mechanics</i> , 1999, 391, 91-122.	3.4	155
5	Examination of large-scale structures in a turbulent plane mixing layer. Part 2. Dynamical systems model. <i>Journal of Fluid Mechanics</i> , 2001, 441, 67-108.	3.4	82
6	Identification strategies for model-based control. <i>Experiments in Fluids</i> , 2013, 54, 1.	2.4	74
7	On the coherent structures and stability properties of a leading-edge separated aerofoil with turbulent recirculation. <i>Journal of Fluid Mechanics</i> , 2011, 683, 395-416.	3.4	55
8	Feedback control of bimodal wake dynamics. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	54
9	Calibration of POD reduced-order models using Tikhonov regularization. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 63, 269-296.	1.6	48
10	Control of chaotic systems by deep reinforcement learning. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190351.	2.1	44
11	Transient dynamics of the flow around a NACA 0015 airfoil using fluidic vortex generators. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 450-459.	2.4	36
12	Reduced-order models for closed-loop wake control. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1513-1524.	3.4	31
13	Drag reduction mechanisms of a car model at moderate yaw by bi-frequency forcing. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	31
14	Frequency selection by feedback control in a turbulent shear flow. <i>Journal of Fluid Mechanics</i> , 2016, 797, 247-283.	3.4	30
15	Development of a nonlinear eddy-viscosity closure for the triple-decomposition stability analysis of a turbulent channel. <i>Journal of Fluid Mechanics</i> , 2010, 664, 74-107.	3.4	26
16	Reduced-order modelling of the flow around a high-lift configuration with unsteady Coanda blowing. <i>Journal of Fluid Mechanics</i> , 2016, 800, 72-110.	3.4	25
17	Review of Some Fundamentals of Data Processing. , 2007, , 1337-1398.		16
18	Open-loop control of cavity noise using Proper Orthogonal Decomposition reduced-order model. <i>Computers and Fluids</i> , 2018, 160, 1-13.	2.5	13

#	ARTICLE	IF	CITATIONS
19	Dynamic mode decomposition for non-uniformly sampled data. <i>Experiments in Fluids</i> , 2016, 57, 1.	2.4	12
20	A multigrid/ensemble Kalman filter strategy for assimilation of unsteady flows. <i>Journal of Computational Physics</i> , 2021, 443, 110481.	3.8	12
21	NEW REGULARIZATION METHOD FOR CALIBRATED POD REDUCED-ORDER MODELS. <i>Mathematical Modelling and Analysis</i> , 2017, 21, 47-62.	1.5	9
22	Development and Application of a Reduced Order Model for the Control of Self-Sustained Instabilities in Cavity Flows. <i>Communications in Computational Physics</i> , 2013, 14, 186-218.	1.7	8
23	On the power required to control the circular cylinder wake by rotary oscillations. <i>Physics of Fluids</i> , 2006, 18, 088103.	4.0	7
24	Identification-Based Closed-Loop Control Strategies for a Cylinder Wake Flow. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 1488-1495.	5.2	6
25	Sur l'optimisation d'actionneurs pour le contrôle d'écoulements. <i>Mecanique Et Industries</i> , 2007, 8, 259-265.	0.2	5
26	A continuous reinforcement learning strategy for closed-loop control in fluid dynamics. , 2017, , .		4
27	Contrôle optimal par réduction de modèle POD et méthode d'augmentation de confiance du sillage laminaire d'un cylindre circulaire. <i>Mecanique Et Industries</i> , 2007, 8, 111-118.	0.2	3
28	Parametric low-order models in transient heat diffusion by MIM. Estimation of thermal conductivity in a 2D slab. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012019.	0.4	3
29	Reduced Order Modeling by Modal Identification Method and POD-Galerkin approach of the heated circular cylinder wake in mixed convection. <i>Journal of Physics: Conference Series</i> , 2012, 395, 012102.	0.4	2
30	Flow control and constrained optimization problems. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2011, , 1-76.	0.6	1
31	Nonlinear Optimal Control Using Deep Reinforcement Learning. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2022, , 279-290.	0.2	1