Carlo Cossu

List of Publications by Year in descending order

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186265 168389 2,760 60 28 53 h-index citations g-index papers 62 62 62 1096 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Replacing wakes with streaks in wind turbine arrays. Wind Energy, 2021, 24, 345-356.	4.2	11
2	Wake redirection at higher axial induction. Wind Energy Science, 2021, 6, 377-388.	3.3	15
3	Evaluation of tilt control for wind-turbine arrays in the atmospheric boundary layer. Wind Energy Science, 2021, 6, 663-675.	3.3	7
4	On the relevance of Reynolds stresses in resolvent analyses of turbulent wall-bounded flows. Journal of Fluid Mechanics, 2019, 867, 969-984.	3.4	60
5	Influence of optimally amplified streamwise streaks on the Kelvin–Helmholtz instability. Journal of Fluid Mechanics, 2018, 838, 478-500.	3.4	17
6	Self-sustaining processes at all scales in wall-bounded turbulent shear flows. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160088.	3.4	41
7	Exact Invariant Solutions for Coherent Turbulent Motions in Couette and Poiseuille Flows. Procedia IUTAM, 2017, 20, 94-98.	1.2	2
8	Optimal streaks in the wake of a blunt-based axisymmetric bluff body and their influence on vortex shedding. Comptes Rendus - Mecanique, 2017, 345, 378-385.	2.1	4
9	Invariant solutions of minimal large-scale structures in turbulent channel flow for upÂtoÂ1000. Journal of Fluid Mechanics, 2016, 802, .	3.4	40
10	Travelling-wave solutions bifurcating from relative periodic orbits in plane Poiseuille flow. Comptes Rendus - Mecanique, 2016, 344, 448-455.	2.1	12
11	On the self-sustained nature of large-scale motions in turbulent Couette flow. Journal of Fluid Mechanics, 2015, 782, 515-540.	3.4	43
12	Dissipative effects on the sustainment of a magnetorotational dynamo in Keplerian shear flow. Astronomy and Astrophysics, 2015, 575, A14.	5.1	23
13	An Introduction to Optimal Control. Applied Mechanics Reviews, 2014, 66, .	10.1	12
14	Optimal perturbations of non-parallel wakes and their stabilizing effect on the global instability. Physics of Fluids, 2014, 26, .	4.0	14
15	Stabilizing effect of optimally amplified streaks in parallel wakes. Journal of Fluid Mechanics, 2014, 739, 37-56.	3.4	20
16	Relative periodic orbits in plane Poiseuille flow. Comptes Rendus - Mecanique, 2014, 342, 485-489.	2.1	8
17	Optimal streaks in the circular cylinder wake and suppression of the global instability. Journal of Fluid Mechanics, 2014, 752, 572-588.	3.4	18
18	Global bifurcations to subcritical magnetorotational dynamo action in Keplerian shear flow. Journal of Fluid Mechanics, 2013, 731, 1-45.	3.4	95

#	Article	IF	Citations
19	Growth and instability of a laminar plume in a strongly stratified environment. Journal of Fluid Mechanics, 2011, 671, 184-206.	3.4	8
20	Periodic magnetorotational dynamo action as a prototype of nonlinear magnetic-field generation in shear flows. Physical Review E, 2011, 84, 036321.	2.1	35
21	On the stability of large-scale streaks in turbulent Couette and Poiseulle flows. Comptes Rendus - Mecanique, 2011, 339, 1-5.	2.1	33
22	Self-sustained processes in the logarithmic layer of turbulent channel flows. Physics of Fluids, 2011, 23, .	4.0	63
23	Secondary threshold amplitudes for sinuous streak breakdown. Physics of Fluids, 2011, 23, .	4.0	33
24	Amplification of coherent streaks in the turbulent Couette flow: an input–output analysis at low Reynolds number. Journal of Fluid Mechanics, 2010, 643, 333-348.	3.4	108
25	Linear non-normal energy amplification of harmonic and stochastic forcing in the turbulent channel flow. Journal of Fluid Mechanics, 2010, 664, 51-73.	3.4	155
26	Drag reduction of a 3D bluff body using coherent streamwise streaks. Experiments in Fluids, 2010, 49, 1085-1094.	2.4	92
27	Self-Sustained Process at Large Scales in Turbulent Channel Flow. Physical Review Letters, 2010, 105, 044505.	7.8	130
28	Forcing large-scale coherent streaks in a zero-pressure-gradient turbulent boundary layer. Journal of Turbulence, 2010, 11, N25.	1.4	18
29	Optimally amplified large-scale streaks and drag reduction in turbulent pipe flow. Physical Review E, 2010, 82, 036321.	2.1	31
30	Secondary optimal growth and subcritical transition in the plane Poiseuille flow. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2010, , 129-134.	0.2	1
31	A note on optimal transient growth in turbulent channel flows. Physics of Fluids, 2009, 21, .	4.0	142
32	Adding streamwise streaks in the plane Poiseuille flow. Comptes Rendus - Mecanique, 2009, 337, 179-183.	2.1	7
33	Optimal transient growth and very large–scale structures in turbulent boundary layers. Journal of Fluid Mechanics, 2009, 619, 79-94.	3.4	149
34	Optimal amplification of large scale streaks in the turbulent Couette flow. Springer Proceedings in Physics, 2009, , 645-648.	0.2	2
35	Coherent streaky structures and optimal perturbations of turbulent boundary layers. Springer Proceedings in Physics, 2009, , 573-576.	0.2	0
36	Subcritical dynamos in shear flows. Astronomische Nachrichten, 2008, 329, 750-761.	1.2	26

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37	Spherical cap bubbles with a toroidal bubbly wake. Physics of Fluids, 2008, 20, .	4.0	22
38	Optimal secondary energy growth in a plane channel flow. Physics of Fluids, 2007, 19, 058107.	4.0	16
39	On self-sustaining processes in Rayleigh-stable rotating plane Couette flows and subcritical transition to turbulence in accretion disks. Astronomy and Astrophysics, 2007, 463, 817-832.	5.1	36
40	Optimal secondary growth and transition in a plane channel flow. , 2007, , 136-137.		0
41	Experimental Analysis of Transition Delay by Means of Roughness Elements. , 2006, , .		1
42	Delaying Transition to Turbulence by a Passive Mechanism. Physical Review Letters, 2006, 96, 064501.	7.8	199
43	EXPERIMENTAL STUDY OF THE STABILIZATION OF TOLLMIEN-SCHLICHTINGWAVES BY FINITE AMPLITUDE STREAKS., 2006,, 299-304.		3
44	NUMERICAL STUDIES OF STREAK INSTABILITY IN BOUNDARY LAYERS. Fluid Mechanics and Its Applications, 2006, , 121-126.	0.2	2
45	An optimality condition on the minimum energy threshold in subcritical instabilities. Comptes Rendus - Mecanique, 2005, 333, 331-336.	2.1	17
46	A note on the stability of slip channel flows. Physics of Fluids, 2005, 17, 088106.	4.0	78
47	Experimental study of the stabilization of Tollmien–Schlichting waves by finite amplitude streaks. Physics of Fluids, 2005, 17, 054110.	4.0	130
48	Non-Linear Optimal Perturbations in Subcritical Instabilities. , 2005, , 251-266.		1
49	Experimental and theoretical investigation of the nonmodal growth of steady streaks in a flat plate boundary layer. Physics of Fluids, 2004, 16, 3627-3638.	4.0	166
50	On Tollmien–Schlichting-like waves in streaky boundary layers. European Journal of Mechanics, B/Fluids, 2004, 23, 815-833.	2.5	136
51	On the convectively unstable nature of optimal streaks in boundary layers. Journal of Fluid Mechanics, 2003, 485, 221-242.	3.4	65
52	Stabilization of Tollmien–Schlichting waves by finite amplitude optimal streaks in the Blasius boundary layer. Physics of Fluids, 2002, 14, L57-L60.	4.0	151
53	Spatio-temporal development of the long and short-wave vortex-pair instabilities. Physics of Fluids, 2000, 12, 1247-1250.	4.0	30
54	Self-adaptation and viscous selection in concentrated two-dimensional vortex dipoles. Physics of Fluids, 2000, 12, 245-248.	4.0	57

#	ARTICLE	IF	CITATION
55	ON THE INSTABILITY OF A SPRING-MOUNTED CIRCULAR CYLINDER IN A VISCOUS FLOW AT LOW REYNOLDS NUMBERS. Journal of Fluids and Structures, 2000, 14, 183-196.	3.4	54
56	Maximum Spatial Growth of Görtler Vortices. Flow, Turbulence and Combustion, 2000, 65, 369-392.	2.6	14
57	Absolute/Convective Instabilities and Spatial Growth in a Vortex Pair., 2000, , 162-172.		1
58	On the Convective and Absolute Nature of Instabilities in Finite Difference Numerical Simulations of Open Flows. Journal of Computational Physics, 1998, 144, 98-108.	3.8	13
59	Global Measures of Local Convective Instabilities. Physical Review Letters, 1997, 78, 4387-4390.	7.8	84
60	A vorticity-only formulation and a low-order asymptotic expansion solution near Hopf bifurcation. Computational Mechanics, 1997, 20, 229-241.	4.0	7