

Cristóbal Arratia

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

273
citations

1307594

7
h-index

1199594

12
g-index

14
all docs

14
docs citations

14
times ranked

348
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute/convective secondary instabilities and the role of confinement in free shear layers. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	2
2	Pushing amplitude equations far from threshold: application to the supercritical Hopf bifurcation in the cylinder wake. <i>Fluid Dynamics Research</i> , 2016, 48, 061401.	1.3	8
3	Mode selection in trailing vortices: harmonic response of the non-parallel Batchelor vortex. <i>Journal of Fluid Mechanics</i> , 2016, 790, 523-552.	3.4	22
4	Spatio-temporal stability of the Kármán vortex street and the effect of confinement. <i>Journal of Fluid Mechanics</i> , 2016, 795, 187-209.	3.4	9
5	Inviscid Transient Growth on Horizontal Shear Layers with Strong Vertical Stratification. <i>Springer Proceedings in Physics</i> , 2016, , 199-206.	0.2	1
6	A self-consistent model for the saturation dynamics of the vortex shedding around the mean flow in the unstable cylinder wake. <i>Physics of Fluids</i> , 2015, 27, .	4.0	33
7	Measurement of the dispersion relation of a convectively unstable capillary jet under confinement. <i>Physics of Fluids</i> , 2015, 27, .	4.0	3
8	Gravity wave instability in a turbulent free-surface Taylor-Couette flow: experiments and comparison with an amplitude equation with additive noise. <i>New Journal of Physics</i> , 2015, 17, 013039.	2.9	2
9	Self-Consistent Mean Flow Description of the Nonlinear Saturation of the Vortex Shedding in the Cylinder Wake. <i>Physical Review Letters</i> , 2014, 113, 084501.	7.8	79
10	On the longitudinal optimal perturbations to inviscid plane shear flow: formal solution and asymptotic approximation. <i>Journal of Fluid Mechanics</i> , 2013, 737, 387-411.	3.4	2
11	Transient perturbation growth in time-dependent mixing layers. <i>Journal of Fluid Mechanics</i> , 2013, 717, 90-133.	3.4	44
12	Transient evolution and high stratification scaling in horizontal mixing layers. <i>Springer Proceedings in Physics</i> , 2009, , 183-186.	0.2	0
13	Condensing and Fluidizing Effects of Ganglioside GM1 on Phospholipid Films. <i>Biophysical Journal</i> , 2008, 94, 3047-3064.	0.5	68