

Stphane Le Dizs

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

1,819
citations

25
h-index

39
g-index

86
ext. papers

2,094
ext. citations

3.6
avg, IF

5.05
L-index

#	Paper	IF	Citations
80	Dynamics and Instabilities of Vortex Pairs. <i>Annual Review of Fluid Mechanics</i> , 2016 , 48, 507-541	2.2	129
79	Physics of vortex merging. <i>Comptes Rendus Physique</i> , 2005 , 6, 431-450	1.4	102
78	Theoretical predictions for the elliptical instability in a two-vortex flow. <i>Journal of Fluid Mechanics</i> , 2002 , 471, 169-201	3.7	78
77	Viscous interactions of two co-rotating vortices before merging. <i>Journal of Fluid Mechanics</i> , 2002 , 467, 389-410	3.7	77
76	Short-term dynamics of a density interface following an impact. <i>Journal of Fluid Mechanics</i> , 2007 , 577, 241-250	3.7	75
75	Three-dimensional instability of Burgers and Lamb-Deniseen vortices in a strain field. <i>Journal of Fluid Mechanics</i> , 1999 , 378, 145-166	3.7	68
74	Stability of the Rankine vortex in a multipolar strain field. <i>Physics of Fluids</i> , 2001 , 13, 660-676	4.4	65
73	Elliptical instability in a rotating spheroid. <i>Journal of Fluid Mechanics</i> , 2004 , 505, 1-22	3.7	56
72	Tidal instability in stellar and planetary binary systems. <i>Physics of the Earth and Planetary Interiors</i> , 2010 , 178, 48-55	2.3	54
71	Elliptic and triangular instabilities in rotating cylinders. <i>Journal of Fluid Mechanics</i> , 2003 , 476, 357-388	3.7	51
70	Non-axisymmetric vortices in two-dimensional flows. <i>Journal of Fluid Mechanics</i> , 2000 , 406, 175-198	3.7	48
69	Experimental study of the multipolar vortex instability. <i>Physical Review Letters</i> , 2000 , 85, 3400-3	7.4	44
68	Elliptic instability in a strained Batchelor vortex. <i>Journal of Fluid Mechanics</i> , 2007 , 577, 341-361	3.7	41
67	Three-dimensional instability of a multipolar vortex in a rotating flow. <i>Physics of Fluids</i> , 2000 , 12, 2762	4.4	39
66	Fluid flows in a librating cylinder. <i>Physics of Fluids</i> , 2012 , 24, 026603	4.4	36
65	Coriolis effects on the elliptical instability in cylindrical and spherical rotating containers. <i>Journal of Fluid Mechanics</i> , 2007 , 585, 323-342	3.7	34
64	Magnetic field induced by elliptical instability in a rotating spheroid. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2006 , 100, 299-317	1.4	34

63	Elliptical instability of the flow in a rotating shell. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 151, 194-205	2.3	33
62	SLOW DENSE GRANULAR FLOWS AS A SELF-INDUCED PROCESS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2001 , 04, 441-450	0.8	33
61	On the three-dimensional instability of elliptical vortex subjected to stretching. <i>Physics of Fluids</i> , 1996 , 8, 2084-2090	4.4	33
60	Radiative instability in stratified vortices. <i>Physics of Fluids</i> , 2009 , 21, 096602	4.4	31
59	Libration-induced mean flow in a spherical shell. <i>Journal of Fluid Mechanics</i> , 2013 , 718, 181-209	3.7	29
58	An asymptotic description of vortex Kelvin modes. <i>Journal of Fluid Mechanics</i> , 2005 , 542, 69	3.7	28
57	Structure, stability, and evolution of 3D Rossby vortices in protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2013 , 559, A30	5.1	28
56	Stability of a pair of co-rotating vortices with axial flow. <i>Physics of Fluids</i> , 2008 , 20, 094101	4.4	25
55	Short-wavelength instability of a vortex in a multipolar strain field. <i>Physics of Fluids</i> , 1999 , 11, 500-502	4.4	25
54	Tilt-induced instability of a stratified vortex. <i>Journal of Fluid Mechanics</i> , 2008 , 596, 1-20	3.7	24
53	Structure of a stratified tilted vortex. <i>Journal of Fluid Mechanics</i> , 2007 , 583, 443-458	3.7	23
52	Waves on a columnar vortex in a strongly stratified fluid. <i>Physics of Fluids</i> , 2009 , 21, 106602	4.4	21
51	Thermo-elliptical instability in a rotating cylindrical shell. <i>Journal of Fluid Mechanics</i> , 2006 , 563, 189	3.7	20
50	Viscous stability properties of a Lamb-Oseen vortex in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 2010 , 645, 255-278	3.7	19
49	The strato-rotational instability of Taylor-Couette and Keplerian flows. <i>Journal of Fluid Mechanics</i> , 2010 , 660, 147-161	3.7	19
48	Stability analysis of plane wave solutions of the discrete ginzburg-landau equation. <i>Physical Review E</i> , 2000 , 61, 390-3	2.4	19
47	Viscous Critical-Layer Analysis of Vortex Normal Modes. <i>Studies in Applied Mathematics</i> , 2004 , 112, 315-332		18
46	Internal waves generated by a stratified wake: experiment and theory. <i>Journal of Fluid Mechanics</i> , 2018 , 846, 752-788	3.7	17

45	Radiative instability of the flow around a rotating cylinder in a stratified fluid. <i>Journal of Fluid Mechanics</i> , 2011 , 672, 130-146	3-7	17
44	Elliptic instability of a stratified fluid in a rotating cylinder. <i>Journal of Fluid Mechanics</i> , 2010 , 660, 240-257	3-7	17
43	Inviscid waves on a Lamb-Dicke vortex in a rotating stratified fluid: consequences for the elliptic instability. <i>Journal of Fluid Mechanics</i> , 2008 , 597, 283-303	3-7	17
42	Large-Reynolds-number asymptotic analysis of viscous centre modes in vortices. <i>Journal of Fluid Mechanics</i> , 2007 , 585, 153-180	3-7	17
41	Shear instability in a stratified fluid when shear and stratification are not aligned. <i>Journal of Fluid Mechanics</i> , 2011 , 685, 191-201	3-7	15
40	Nonlinear dynamics of the elliptic instability. <i>Journal of Fluid Mechanics</i> , 2010 , 646, 471-480	3-7	15
39	Temporal instability modes of supersonic round jets. <i>Journal of Fluid Mechanics</i> , 2010 , 662, 173-196	3-7	15
38	Elliptic instability in a Rankine vortex with axial flow. <i>Physics of Fluids</i> , 2005 , 17, 017101-017101-5	4-4	14
37	Three-Dimensional Temporal Spectrum of Stretched Vortices. <i>Physical Review Letters</i> , 1997 , 78, 2567-2569	3-7	13
36	Vortices in stratified protoplanetary disks. <i>Astronomy and Astrophysics</i> , 2016 , 592, A136	5-1	12
35	Elliptic instability of a curved Batchelor vortex. <i>Journal of Fluid Mechanics</i> , 2016 , 804, 224-247	3-7	12
34	Curvature instability of a curved Batchelor vortex. <i>Journal of Fluid Mechanics</i> , 2017 , 814, 397-415	3-7	11
33	Instability of a vertical columnar vortex in a stratified fluid. <i>Experiments in Fluids</i> , 2010 , 49, 673-681	2-5	11
32	Viscous and inviscid centre modes in the linear stability of vortices: the vicinity of the neutral curves. <i>Journal of Fluid Mechanics</i> , 2008 , 603, 1-38	3-7	11
31	Capillary jet breakup by noise amplification. <i>Journal of Fluid Mechanics</i> , 2017 , 810, 281-306	3-7	10
30	Inviscid instability of a stably stratified compressible boundary layer on an inclined surface. <i>Journal of Fluid Mechanics</i> , 2012 , 694, 524-539	3-7	10
29	Nonlinear Stability Analysis of Slowly-Diverging Flows: Limitations of the Weakly Nonlinear Approach 1993 , 147-152		10
28	Numerical stability analysis of a vortex ring with swirl. <i>Journal of Fluid Mechanics</i> , 2019 , 878, 5-36	3-7	9

27	Long- and short-wave instabilities in helical vortices. <i>Journal of Physics: Conference Series</i> , 2014 , 524, 012154	0.3	9
26	Internal structure of vortex rings and helical vortices. <i>Journal of Fluid Mechanics</i> , 2015 , 785, 219-247	3.7	9
25	Stretching effects on the three-dimensional stability of vortices with axial flow. <i>Journal of Fluid Mechanics</i> , 2002 , 454, 419-442	3.7	8
24	Forced dynamics of a short viscous liquid bridge. <i>Journal of Fluid Mechanics</i> , 2014 , 761, 220-240	3.7	7
23	Elliptical instability in rotating cylinders: liquid metal experiments under imposed magnetic field. <i>Journal of Fluid Mechanics</i> , 2010 , 661, 130-158	3.7	7
22	Wave field and zonal flow of a librating disk. <i>Journal of Fluid Mechanics</i> , 2015 , 782, 178-208	3.7	6
21	Response of a stratified boundary layer on a tilted wall to surface undulations. <i>Journal of Fluid Mechanics</i> , 2014 , 751, 663-684	3.7	5
20	Internal shear layers from librating objects. <i>Journal of Fluid Mechanics</i> , 2017 , 826, 653-675	3.7	5
19	Spatio-temporal development of the pairing instability in an infinite array of vortex rings. <i>Fluid Dynamics Research</i> , 2014 , 46, 061405	1.2	5
18	Viscous structure of plane waves in spatially developing shear flows. <i>Physics of Fluids</i> , 1995 , 7, 1337-1347	4.4	5
17	Instability of a boundary layer flow on a vertical wall in a stably stratified fluid. <i>Journal of Fluid Mechanics</i> , 2016 , 795, 262-277	3.7	5
16	Self-similar impulsive capillary waves on a ligament. <i>Physics of Fluids</i> , 2015 , 27, 051704	4.4	4
15	Acoustic near field of a transonic instability wave packet. <i>Journal of Fluid Mechanics</i> , 2007 , 577, 1-23	3.7	4
14	Modal growth and non-modal growth in a stretched shear layer. <i>European Journal of Mechanics, B/Fluids</i> , 2003 , 22, 411-430	2.4	4
13	Generalized helical vortex pairs. <i>Journal of Fluid Mechanics</i> , 2019 , 865, 523-545	3.7	4
12	Viscous ring modes in vortices with axial jet. <i>Theoretical and Computational Fluid Dynamics</i> , 2010 , 24, 349-361	2.3	3
11	Magnetic field induced by elliptical instability in a rotating tidally-distorted sphere. <i>Journal of Physics: Conference Series</i> , 2005 , 14, 30-34	0.3	3
10	Relationship between corotating vortex-pair equilibria and a single vortex in an external deformation field. <i>Physics of Fluids</i> , 2005 , 17, 074103	4.4	3

- 9 A strongly-coupled model for flexible rotors. *Journal of Fluids and Structures*, **2019**, 89, 219-231 3.1 2
- 8 Spatio-temporal development of the pairing instability in helical vortices **2011**, 2
- 7 Zonal flow in a resonant precessing cylinder. *Journal of Fluid Mechanics*, **2021**, 923, 3.7 2
- 6 Structure and stability of Joukowski's rotor wake model. *Journal of Fluid Mechanics*, **2021**, 911, 3.7 1
- 5 Instabilities of a columnar vortex in a stratified fluid. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2010**, 207-215 0.3 0
- 4 Note on Multi-frequency Craik-Criminale solutions of the Navier-Stokes equations by B. R. Fabijonas and D. D. Holm. *Journal of Fluid Mechanics*, **2006**, 550, 43 3.7
- 3 Stability of Stretched Vortices in a Strain Field. *Fluid Mechanics and Its Applications*, **1998**, 235-244 0.2
- 2 Viscous ring modes in vortices with axial jet. *IUTAM Symposium on Cellular, Molecular and Tissue Mechanics*, **2009**, 365-377 0.3
- 1 Joukowski's wake model for tip-splitting rotors. *Journal of Physics: Conference Series*, **2021**, 1934, 012005. 0.3