

# Juan Lopez

## List of Publications by Citations

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159  
papers

3,409  
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33  
h-index

51  
g-index

182  
ext. papers

3,792  
ext. citations

3.8  
avg, IF

5.55  
L-index

#	Paper	IF	Citations
159	Axisymmetric vortex breakdown Part 2. Physical mechanisms. <i>Journal of Fluid Mechanics</i> , <b>1990</b> , 221, 553-576	3.7	264
158	Axisymmetric vortex breakdown Part 1. Confined swirling flow. <i>Journal of Fluid Mechanics</i> , <b>1990</b> , 221, 533-552	3.7	251
157	Axisymmetric vortex breakdown. Part 3 Onset of periodic flow and chaotic advection. <i>Journal of Fluid Mechanics</i> , <b>1992</b> , 234, 449	3.7	116
156	Numerical study of natural convection in a vertical porous annulus with discrete heating. <i>International Journal of Heat and Mass Transfer</i> , <b>2011</b> , 54, 1493-1505	4.9	91
155	On the bifurcation structure of axisymmetric vortex breakdown in a constricted pipe. <i>Physics of Fluids</i> , <b>1994</b> , 6, 3683-3693	4.4	86
154	On three-dimensional quasiperiodic Floquet instabilities of two-dimensional bluff body wakes. <i>Physics of Fluids</i> , <b>2003</b> , 15, L57-L60	4.4	83
153	Symmetry breaking of two-dimensional time-periodic wakes. <i>Journal of Fluid Mechanics</i> , <b>2005</b> , 522, 395-411	4.1	75
152	An Efficient Spectral-Projection Method for the Navier-Stokes Equations in Cylindrical Geometries. <i>Journal of Computational Physics</i> , <b>1998</b> , 139, 308-326	4.1	73
151	Oscillatory flow states in an enclosed cylinder with a rotating endwall. <i>Journal of Fluid Mechanics</i> , <b>1999</b> , 389, 101-118	3.7	61
150	An Efficient Spectral-Projection Method for the Navier-Stokes Equations in Cylindrical Geometries. <i>Journal of Computational Physics</i> , <b>2002</b> , 176, 384-401	4.1	52
149	Precessing vortex breakdown mode in an enclosed cylinder flow. <i>Physics of Fluids</i> , <b>2001</b> , 13, 1679-1682	4.4	52
148	Symmetry breaking of the flow in a cylinder driven by a rotating end wall. <i>Physics of Fluids</i> , <b>2000</b> , 12, 2698-2714	4.4	52
147	Symmetry breaking in free-surface cylinder flows. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 502, 99-126	3.7	49
146	Unsteady swirling flow in an enclosed cylinder with reflectional symmetry. <i>Physics of Fluids</i> , <b>1995</b> , 7, 2700-2714	4.4	48
145	Mode interactions in an enclosed swirling flow: a double Hopf bifurcation between azimuthal wavenumbers 0 and 2. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 455, 263-281	3.7	47
144	Taylor-Couette flow with axial oscillations of the inner cylinder: Floquet analysis of the basic flow. <i>Journal of Fluid Mechanics</i> , <b>1997</b> , 348, 153-175	3.7	46
143	Instability and mode interactions in a differentially driven rotating cylinder. <i>Journal of Fluid Mechanics</i> , <b>2002</b> , 462, 383-409	3.7	46

- 142 Dynamics of three-tori in a periodically forced navier-stokes flow. *Physical Review Letters*, **2000**, 85, 972-5.4 42
- 141 Bifurcations in systems with Z2 spatio-temporal and O(2) spatial symmetry. *Physica D: Nonlinear Phenomena*, **2004**, 189, 247-276 3.3 41
- 140 Characteristics of endwall and sidewall boundary layers in a rotating cylinder with a differentially rotating endwall. *Journal of Fluid Mechanics*, **1998**, 359, 49-79 3.7 41
- 139 Centrifugal effects in rotating convection: axisymmetric states and three-dimensional instabilities. *Journal of Fluid Mechanics*, **2007**, 580, 303-318 3.7 40
- 138 Modulated rotating waves in an enclosed swirling flow. *Journal of Fluid Mechanics*, **2002**, 465, 33-58 3.7 40
- 137 A Continuation and Bifurcation Technique for Navier-Stokes Flows. *Journal of Computational Physics*, **2002**, 180, 78-98 4.1 39
- 136 Oscillatory modes in an enclosed swirling flow. *Journal of Fluid Mechanics*, **2001**, 439, 109-129 3.7 39
- 135 Stability of stationary endwall boundary layers during spin-down. *Journal of Fluid Mechanics*, **1996**, 326, 373-398 3.7 39
- 134 Determination of surface shear viscosity via deep-channel flow with inertia. *Journal of Fluid Mechanics*, **2002**, 470, 135-149 3.7 38
- 133 Measurement and computation of hydrodynamic coupling at an air/water interface with an insoluble monolayer. *Journal of Fluid Mechanics*, **2001**, 443, 271-292 3.7 38
- 132 Flow between a stationary and a rotating disk shrouded by a co-rotating cylinder. *Physics of Fluids*, **1996**, 8, 2605-2613 4.4 38
- 131 Direct Determination of the Dependence of the Surface Shear and Dilatational Viscosities on the Thermodynamic State of the Interface: Theoretical Foundations. *Journal of Colloid and Interface Science*, **1998**, 206, 231-239 9.3 37
- 130 Crossflow instability of finite Břewaldt flows: Transients and spiral waves. *Physics of Fluids*, **2009**, 21, 114107 4.4 36
- 129 Centrifugal effects in rotating convection: nonlinear dynamics. *Journal of Fluid Mechanics*, **2009**, 628, 269-297 3.7 34
- 128 Confined thermocapillary motion of a three-dimensional deformable drop. *Physics of Fluids*, **2011**, 23, 022101 4.4 33
- 127 The onset of three-dimensional standing and modulated travelling waves in a periodically driven cavity flow. *Journal of Fluid Mechanics*, **2003**, 497, 289-317 3.7 33
- 126 Surfactant-Influenced Gas-Liquid Interfaces: Nonlinear Equation of State and Finite Surface Viscosities. *Journal of Colloid and Interface Science*, **2000**, 229, 575-583 9.3 33
- 125 Thermosolutal convection from a discrete heat and solute source in a vertical porous annulus. *International Journal of Heat and Mass Transfer*, **2012**, 55, 4116-4128 4.9 29

124	Rotating and modulated rotating waves in transitions of an enclosed swirling flow. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 553, 323	3-7	29
123	Global endwall effects on centrifugally stable flows. <i>Physics of Fluids</i> , <b>2008</b> , 20, 104104	4-4	28
122	Symmetry breaking to a rotating wave in a lid-driven cylinder with a free surface: Experimental observation. <i>Physics of Fluids</i> , <b>2002</b> , 14, L29-L32	4-4	27
121	Instability of plumes driven by localized heating. <i>Journal of Fluid Mechanics</i> , <b>2013</b> , 736, 616-640	3-7	26
120	Onset of convection in a moderate aspect-ratio rotating cylinder: Eckhaus-Benjamin-Feir instability. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 590, 187-208	3-7	26
119	Spatio-temporal dynamics of a periodically driven cavity flow. <i>Journal of Fluid Mechanics</i> , <b>2003</b> , 478, 197-226	3-7	26
118	Instabilities and inertial waves generated in a librating cylinder. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 687, 171-193	3-7	24
117	Bursting dynamics due to a homoclinic cascade in Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 613, 357-384	3-7	24
116	Onset of three-dimensional unsteady states in small-aspect-ratio Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 561, 255	3-7	24
115	Triadic resonances in precessing rapidly rotating cylinder flows. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 778,	3-7	23
114	Mode competition between rotating waves in a swirling flow with reflection symmetry. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 507, 265-288	3-7	23
113	Mode competition of rotating waves in reflection-symmetric Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2005</b> , 540, 269	3-7	22
112	Symmetry breaking via global bifurcations of modulated rotating waves in hydrodynamics. <i>Physical Review Letters</i> , <b>2005</b> , 94, 074501	7-4	21
111	Spatial and temporal resonances in a periodically forced hydrodynamic system. <i>Physica D: Nonlinear Phenomena</i> , <b>2000</b> , 136, 340-352	3-3	20
110	Precession of a rapidly rotating cylinder flow: traverse through resonance. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 782, 63-98	3-7	19
109	Three-dimensional swirling flows in a tall cylinder driven by a rotating endwall. <i>Physics of Fluids</i> , <b>2012</b> , 24, 014101	4-4	19
108	Sidewall boundary layer instabilities in a rapidly rotating cylinder driven by a differentially corotating lid. <i>Physics of Fluids</i> , <b>2010</b> , 22, 114109	4-4	19
107	Two-fluid confined flow in a cylinder driven by a rotating end wall. <i>Physical Review E</i> , <b>2012</b> , 85, 016308	2-4	19

106	Stability control and catastrophic transition in a forced Taylor-Couette system. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 590, 471-496	3.7	19
105	Tangent double Hopf bifurcation in a differentially rotating cylinder flow. <i>Physical Review E</i> , <b>2003</b> , 68, 016310	2.4	19
104	Influence of an inhomogeneous internal magnetic field on the flow dynamics of a ferrofluid between differentially rotating cylinders. <i>Physical Review E</i> , <b>2012</b> , 85, 066314	2.4	18
103	Travelling circular waves in axisymmetric rotating convection. <i>Journal of Fluid Mechanics</i> , <b>2006</b> , 569, 331-347	3.7	18
102	Coupling of the interfacial and bulk flow in knife-edge viscometers. <i>Physics of Fluids</i> , <b>2015</b> , 27, 042102	4.4	16
101	Shear-induced amyloid fibrillization: the role of inertia. <i>Soft Matter</i> , <b>2016</b> , 12, 3461-7	3.6	16
100	Double-Diffusive Convection from a Discrete Heat and Solute Source in a Vertical Porous Annulus. <i>Transport in Porous Media</i> , <b>2012</b> , 91, 753-775	3.1	16
99	Effect of elongational flow on ferrofluids under a magnetic field. <i>Physical Review E</i> , <b>2013</b> , 88, 013003	2.4	16
98	Quenching of vortex breakdown oscillations via harmonic modulation. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 599, 441-464	3.7	16
97	Rapidly rotating precessing cylinder flows: forced triadic resonances. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 839, 239-270	3.7	15
96	Rapidly rotating cylinder flow with an oscillating sidewall. <i>Physical Review E</i> , <b>2014</b> , 89, 013013	2.4	15
95	Slow passage through resonance. <i>Physical Review E</i> , <b>2011</b> , 84, 056604	2.4	15
94	Flow induced patterning at the air-water interface. <i>Physics of Fluids</i> , <b>2003</b> , 15, L45	4.4	15
93	Complex dynamics in a short annular container with rotating bottom and inner cylinder. <i>Journal of Fluid Mechanics</i> , <b>2004</b> , 501, 327-354	3.7	15
92	Non-newtonian behavior of an insoluble monolayer: effects of inertia. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 248, 103-110	9.3	15
91	Modulated Taylor-Couette Flow: Onset of Spiral Modes. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2002</b> , 16, 59-69	2.3	15
90	Small aspect ratio Taylor-Couette flow: onset of a very-low-frequency three-torus state. <i>Physical Review E</i> , <b>2003</b> , 68, 036302	2.4	15
89	Noise-induced enhancement of chemical reactions in nonlinear flows. <i>Chaos</i> , <b>2002</b> , 12, 417-425	3.3	15

88	Symmetry-breaking Hopf bifurcations to 1-, 2-, and 3-tori in small-aspect-ratio counterrotating Taylor-Couette flow. <i>Physical Review E</i> , <b>2012</b> , 86, 046316	2.4	14
87	Onset of K�ppers-Ortiz-like dynamics in finite rotating thermal convection. <i>Journal of Fluid Mechanics</i> , <b>2010</b> , 644, 337-357	3.7	14
86	Optimal harmonic response in a confined B�ewaldt boundary layer flow. <i>Physical Review E</i> , <b>2010</b> , 82, 036301	2.4	14
85	Code verification for finite volume multiphase scalar equations using the method of manufactured solutions. <i>Journal of Computational Physics</i> , <b>2012</b> , 231, 2924-2944	4.1	13
84	Modulated rotating convection: radially travelling concentric rolls. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 608, 357-378	3.7	13
83	Mode competition in modulated Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2008</b> , 601, 381-406	3.7	13
82	Protein crystallization at the air/water interface induced by shearing bulk flow. <i>Langmuir</i> , <b>2007</b> , 23, 5227-5230	4.30	13
81	Transition to complex dynamics in the cubic lid-driven cavity. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	13
80	Bulk flow driven by a viscous monolayer. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 785, 283-300	3.7	12
79	Addendum to "Two-fluid confined flow in a cylinder driven by a rotating endwall". <i>Physical Review E</i> , <b>2012</b> , 85, 067301	2.4	12
78	Interacting oscillatory boundary layers and wall modes in modulated rotating convection. <i>Journal of Fluid Mechanics</i> , <b>2009</b> , 625, 75-96	3.7	12
77	Finite aspect ratio Taylor-Couette flow: Shilnikov dynamics of 2-tori. <i>Physica D: Nonlinear Phenomena</i> , <b>2005</b> , 211, 168-191	3.3	12
76	Evolution of an initially columnar vortex terminating normal to a no-slip wall. <i>Experiments in Fluids</i> , <b>2000</b> , 29, 309-321	2.5	12
75	Surface shear viscosity as a macroscopic probe of amyloid fibril formation at a fluid interface. <i>Soft Matter</i> , <b>2017</b> , 13, 1780-1787	3.6	11
74	On triadic resonance as an instability mechanism in precessing cylinder flow. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 841,	3.7	11
73	Confined rotating convection with large Prandtl number: centrifugal effects on wall modes. <i>Physical Review E</i> , <b>2014</b> , 89, 013019	2.4	11
72	Transition from Newtonian to non-Newtonian surface shear viscosity of phospholipid monolayers. <i>Physics of Fluids</i> , <b>2013</b> , 25, 032107	4.4	11
71	Oscillatory Driven Cavity with an Air/Water Interface and an Insoluble Monolayer: Surface Viscosity Effects. <i>Journal of Colloid and Interface Science</i> , <b>2001</b> , 242, 1-5	9.3	11

70	Modelling steady shear flows of Newtonian liquids with non-Newtonian interfaces. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 814, 5-23	3.7	10
69	Influence of wall modes on the onset of bulk convection in a rotating cylinder. <i>Physics of Fluids</i> , <b>2008</b> , 20, 024109	4.4	10
68	Influence of coexisting phases on the surface dilatational viscosity of Langmuir monolayers. <i>Physical Review E</i> , <b>2004</b> , 70, 056308	2.4	10
67	Imperfect gluing bifurcation in a temporal glide-reflection symmetric Taylor-Couette flow. <i>Physics of Fluids</i> , <b>2002</b> , 14, L33-L36	4.4	10
66	Nonlinear and detuning effects of the nutation angle in precessionally forced rotating cylinder flow. <i>Physical Review Fluids</i> , <b>2016</b> , 1,	2.8	10
65	Pinning of rotating waves to defects in finite Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 666, 254-272	3.7	9
64	Experimental and numerical investigation of the competition between axisymmetric time-periodic modes in an enclosed swirling flow. <i>Physics of Fluids</i> , <b>2006</b> , 18, 104106	4.4	9
63	Three-dimensional modes in a periodically driven elongated cavity. <i>Physical Review E</i> , <b>2005</b> , 71, 026305	2.4	9
62	On the Flow Induced by Centrifugal Buoyancy in a Differentially-Heated Rotating Cylinder. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2000</b> , 14, 39-54	2.3	9
61	Behavior of streamwise rib vortices in a three-dimensional mixing layer. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1993</b> , 5, 1694-1702		9
60	Predicting Steady Shear Rheology of Condensed-Phase Monomolecular Films at the Air-Water Interface. <i>Physical Review Letters</i> , <b>2018</b> , 121, 164502	7.4	9
59	Bifurcations with imperfect SO(2) symmetry and pinning of rotating waves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2013</b> , 469, 20120348	2.4	8
58	Harmonically forced enclosed swirling flow. <i>Physics of Fluids</i> , <b>2009</b> , 21, 034106	4.4	8
57	Subcritical instability of finite circular Couette flow with stationary inner cylinder. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 793, 589-611	3.7	8
56	Librational forcing of a rapidly rotating fluid-filled cube. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 842, 469-494	3.7	7
55	Constant-flux discrete heating in a unit aspect-ratio annulus. <i>Fluid Dynamics Research</i> , <b>2012</b> , 44, 065507	1.2	7
54	Coupling between protein-laden films and a shearing bulk flow. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 322, 79-86	9.3	7
53	Coupling Between a Viscoelastic Gas/Liquid Interface and a Swirling Vortex Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>1998</b> , 120, 655-661	2.1	7

52	Vortex evolution in non-axisymmetric impulsive spin-up from rest. <i>Journal of Fluid Mechanics</i> , <b>1996</b> , 324, 109-134	3.7	7
51	Three-dimensional instabilities and inertial waves in a rapidly rotating split-cylinder flow. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 800, 666-687	3.7	7
50	Complex dynamics in a stratified lid-driven square cavity flow. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 855, 43-67	3.7	7
49	Instabilities of the sidewall boundary layer in a rapidly rotating split cylinder. <i>European Journal of Mechanics, B/Fluids</i> , <b>2015</b> , 52, 76-84	2.4	6
48	Precessing cube: resonant excitation of modes and triadic resonance. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 887,	3.7	6
47	Spontaneous generation of a swirling plume in a stratified ambient. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 761, 443-463	3.7	6
46	Evaluation of closure strategies for a periodically-forced Duffing oscillator with slowly modulated frequency subject to Gaussian white noise. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2017</b> , 44, 144-158	3.7	6
45	Flow-induced 2D protein crystallization: characterization of the coupled interfacial and bulk flows. <i>Soft Matter</i> , <b>2015</b> , 11, 3618-28	3.6	6
44	Transitions to three-dimensional flows in a cylinder driven by oscillations of the sidewall. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 681, 515-536	3.7	6
43	Modulated waves in a periodically driven annular cavity. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 667, 336-357	3.7	6
42	Flow-induced patterning of Langmuir monolayers. <i>Langmuir</i> , <b>2004</b> , 20, 5651-4	4	6
41	Impact of centrifugal buoyancy on strato-rotational instability. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 890,	3.7	5
40	Experimental and numerical investigation of a strongly-forced precessing cylinder flow. <i>International Journal of Heat and Fluid Flow</i> , <b>2016</b> , 61, 68-74	2.4	5
39	Mixing within drops via surface shear viscosity. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 125, 559-568	4.9	5
38	Transition processes for junction vortex flow. <i>Journal of Fluid Mechanics</i> , <b>2007</b> , 585, 457-467	3.7	5
37	Endwall effects in a periodically forced centrifugally unstable flow. <i>Fluid Dynamics Research</i> , <b>2000</b> , 27, 91-108	1.2	5
36	Oscillatory shear rheology measurements and Newtonian modeling of insoluble monolayers. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	5
35	On the origins of steady streaming in precessing fluids. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 910,	3.7	5



34	Three-dimensional instabilities in a discretely heated annular flow: Onset of spatio-temporal complexity via defect dynamics. <i>Physics of Fluids</i> , <b>2014</b> , 26, 064102	4.4	4
33	Effects of shearing flow with inertia on monolayer mesoscale structure. <i>Langmuir</i> , <b>2006</b> , 22, 9483-6	4	4
32	Slow passage through multiple bifurcation points. <i>Discrete and Continuous Dynamical Systems - Series B</i> , <b>2013</b> , 18, 95-107	1.3	4
31	Axisymmetric vortex breakdown in an enclosed cylinder flow <b>1989</b> , 384-388		4
30	Simulated microgravity in the ring-sheared drop. <i>Npj Microgravity</i> , <b>2020</b> , 6, 2	5.3	3
29	Flow in a containerless liquid system: Ring-sheared drop with finite surface shear viscosity. <i>Physical Review Fluids</i> , <b>2019</b> , 4,	2.8	3
28	Reflections and focusing of inertial waves in a librating cube with the rotation axis oblique to its faces. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 896,	3.7	2
27	Inertial effects in the rotationally driven melt motion during the Czochralski growth of silicon crystals with a strong axial magnetic field. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2000</b> , 51, 267	1.6	2
26	Evolution of a Horizontal Scale for Magnetoconvection. <i>Publications of the Astronomical Society of Australia</i> , <b>1987</b> , 7, 112-116	5.5	2
25	Time-Dependent Thermal Convection. <i>Publications of the Astronomical Society of Australia</i> , <b>1983</b> , 5, 173-175		2
24	The onset of oscillatory instability in a rotating layer of mercury heated from below and subject to a magnetic field. <i>Proceedings of the Royal Society of London Series A, Mathematical and Physical Sciences</i> , <b>1986</b> , 407, 313-324		2
23	Differentially rotating split-cylinder flow: Responses to weak harmonic forcing in the rapid rotation regime. <i>Physical Review Fluids</i> , <b>2017</b> , 2,	2.8	2
22	Flow in a ring-sheared drop: Drop deformation. <i>Physics of Fluids</i> , <b>2021</b> , 33, 042117	4.4	2
21	Quasiperiodic Response to Parametric Excitations. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>2000</b> , 209-227	0.5	2
20	Nonlinear mode interactions in a counter-rotating split-cylinder flow. <i>Journal of Fluid Mechanics</i> , <b>2017</b> , 816, 719-745	3.7	1
19	Parametrically forced stably stratified cavity flow: complicated nonlinear dynamics near the onset of instability. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 871, 1067-1096	3.7	1
18	Vertically forced stably stratified cavity flow: instabilities of the basic state. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 851,	3.7	1
17	Determining the self-rotation number following a Naimark-Backer bifurcation in the periodically forced Taylor-Couette flow. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , <b>2000</b> , 51, 61-74	1.6	1

16	The Evolution of a Horizontal Scale for Oscillatory Magnetoconvection. <i>Publications of the Astronomical Society of Australia</i> , <b>1989</b> , 8, 25-28	5.5	1
15	Multi-Mode Study of Time-Dependent Thermal Convection With Hexagonal Planforms. <i>Publications of the Astronomical Society of Australia</i> , <b>1984</b> , 5, 483-487	5.5	1
14	Dynamics in a stably stratified tilted square cavity. <i>Journal of Fluid Mechanics</i> , <b>2020</b> , 883,	3.7	1
13	Coupling Vortical Bulk Flows to the Air/Water Interface: From Putting Oil on Troubled Waters to Surfactants on Protein Solutions. <i>Fluids</i> , <b>2021</b> , 6, 198	1.6	1
12	Inertial waves in rapidly rotating flows: a dynamical systems perspective. <i>Physica Scripta</i> , <b>2016</b> , 91, 1240016	2.6	1
11	On the Boussinesq approximation in arbitrarily accelerating frames of reference. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 924,	3.7	1
10	Effects of Microorganisms on Drop Formation in Microgravity During a Parabolic Flight with Residual Gravity and Jitter. <i>Microgravity Science and Technology</i> , <b>2022</b> , 34, 1	1.6	0
9	From global to local bifurcations in a forced Taylor-Couette flow. <i>Theoretical and Computational Fluid Dynamics</i> , <b>2004</b> , 18, 115-128	2.3	
8	A numerical study of periodically forced flows using a spectral-projection method <b>1998</b> , 189-194		
7	The Effect of Magnetic Field Strength on the Oscillatory Characteristics of Multimode Magnetoconvection. <i>Publications of the Astronomical Society of Australia</i> , <b>1993</b> , 10, 275-277	5.5	
6	A Nonlinear Bifurcation in Cellular Convection Theory. <i>Publications of the Astronomical Society of Australia</i> , <b>1986</b> , 6, 322-325	5.5	
5	CELL SIZES AT THE ONSET OF OSCILLATORY CONVECTIVE INSTABILITY IN A LAYER OF LOW-PRANDTL-NUMBER FLUID SUBJECT TO ROTATION AND A VERTICAL MAGNETIC FIELD. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , <b>1987</b> , 40, 303-314	1	
4	The Influence of the Magnetic Boundary Conditions on the Nature of Astrophysical Convection. <i>Publications of the Astronomical Society of Australia</i> , <b>1983</b> , 5, 172-173	5.5	
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