

Juan Lopez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4588451/publications.pdf>

Version: 2024-02-01

171
papers

4,091
citations

109264

35
h-index

155592

55
g-index

182
all docs

182
docs citations

182
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Axisymmetric vortex breakdown Part 2. Physical mechanisms. Journal of Fluid Mechanics, 1990, 221, 553-576.	1.4	322
2	Axisymmetric vortex breakdown Part 1. Confined swirling flow. Journal of Fluid Mechanics, 1990, 221, 533-552.	1.4	292
3	Axisymmetric vortex breakdown. Part 3 Onset of periodic flow and chaotic advection. Journal of Fluid Mechanics, 1992, 234, 449.	1.4	126
4	On the bifurcation structure of axisymmetric vortex breakdown in a constricted pipe. Physics of Fluids, 1994, 6, 3683-3693.	1.6	107
5	Numerical study of natural convection in a vertical porous annulus with discrete heating. International Journal of Heat and Mass Transfer, 2011, 54, 1493-1505.	2.5	106
6	On three-dimensional quasiperiodic Floquet instabilities of two-dimensional bluff body wakes. Physics of Fluids, 2003, 15, L57-L60.	1.6	102
7	Symmetry breaking of two-dimensional time-periodic wakes. Journal of Fluid Mechanics, 2005, 522, 395-411.	1.4	95
8	An Efficient Spectral-Projection Method for the Navier–Stokes Equations in Cylindrical Geometries. Journal of Computational Physics, 1998, 139, 308-326.	1.9	86
9	Oscillatory flow states in an enclosed cylinder with a rotating endwall. Journal of Fluid Mechanics, 1999, 389, 101-118.	1.4	67
10	Symmetry breaking of the flow in a cylinder driven by a rotating end wall. Physics of Fluids, 2000, 12, 2698.	1.6	60
11	Precessing vortex breakdown mode in an enclosed cylinder flow. Physics of Fluids, 2001, 13, 1679-1682.	1.6	58
12	An Efficient Spectral-Projection Method for the Navier–Stokes Equations in Cylindrical Geometries. Journal of Computational Physics, 2002, 176, 384-401.	1.9	58
13	Symmetry breaking in free-surface cylinder flows. Journal of Fluid Mechanics, 2004, 502, 99-126.	1.4	58
14	Unsteady swirling flow in an enclosed cylinder with reflectional symmetry. Physics of Fluids, 1995, 7, 2700-2714.	1.6	57
15	Taylor–Couette flow with axial oscillations of the inner cylinder: Floquet analysis of the basic flow. Journal of Fluid Mechanics, 1997, 348, 153-175.	1.4	52
16	Instability and mode interactions in a differentially driven rotating cylinder. Journal of Fluid Mechanics, 2002, 462, 383-409.	1.4	51
17	Stability of stationary endwall boundary layers during spin-down. Journal of Fluid Mechanics, 1996, 326, 373-398.	1.4	49
18	Mode interactions in an enclosed swirling flow: a double Hopf bifurcation between azimuthal wavenumbers 0 and 2. Journal of Fluid Mechanics, 2002, 455, 263-281.	1.4	49

#	ARTICLE	IF	CITATIONS
19	Characteristics of endwall and sidewall boundary layers in a rotating cylinder with a differentially rotating endwall. <i>Journal of Fluid Mechanics</i> , 1998, 359, 49-79.	1.4	46
20	Dynamics of Three-Tori in a Periodically Forced Navier-Stokes Flow. <i>Physical Review Letters</i> , 2000, 85, 972-975.	2.9	46
21	Modulated rotating waves in an enclosed swirling flow. <i>Journal of Fluid Mechanics</i> , 2002, 465, 33-58.	1.4	46
22	Bifurcations in systems with Z_2 spatio-temporal and $O(2)$ spatial symmetry. <i>Physica D: Nonlinear Phenomena</i> , 2004, 189, 247-276.	1.3	46
23	Flow between a stationary and a rotating disk shrouded by a co-rotating cylinder. <i>Physics of Fluids</i> , 1996, 8, 2605-2613.	1.6	45
24	Centrifugal effects in rotating convection: axisymmetric states and three-dimensional instabilities. <i>Journal of Fluid Mechanics</i> , 2007, 580, 303-318.	1.4	44
25	Direct Determination of the Dependence of the Surface Shear and Dilatational Viscosities on the Thermodynamic State of the Interface: Theoretical Foundations. <i>Journal of Colloid and Interface Science</i> , 1998, 206, 231-239.	5.0	43
26	A Continuation and Bifurcation Technique for Navier-Stokes Flows. <i>Journal of Computational Physics</i> , 2002, 180, 78-98.	1.9	43
27	Thermosolutal convection from a discrete heat and solute source in a vertical porous annulus. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 4116-4128.	2.5	42
28	Measurement and computation of hydrodynamic coupling at an air/water interface with an insoluble monolayer. <i>Journal of Fluid Mechanics</i> , 2001, 443, 271-292.	1.4	41
29	Oscillatory modes in an enclosed swirling flow. <i>Journal of Fluid Mechanics</i> , 2001, 439, 109-129.	1.4	40
30	Determination of surface shear viscosity via deep-channel flow with inertia. <i>Journal of Fluid Mechanics</i> , 2002, 470, 135-149.	1.4	39
31	Crossflow instability of finite Bjerkedal flows: Transients and spiral waves. <i>Physics of Fluids</i> , 2009, 21, .	1.6	39
32	The onset of three-dimensional standing and modulated travelling waves in a periodically driven cavity flow. <i>Journal of Fluid Mechanics</i> , 2003, 497, 289-317.	1.4	38
33	Confined thermocapillary motion of a three-dimensional deformable drop. <i>Physics of Fluids</i> , 2011, 23, 022101.	1.6	38
34	Centrifugal effects in rotating convection: nonlinear dynamics. <i>Journal of Fluid Mechanics</i> , 2009, 628, 269-297.	1.4	37
35	Surfactant-Influenced Gas-Liquid Interfaces: Nonlinear Equation of State and Finite Surface Viscosities. <i>Journal of Colloid and Interface Science</i> , 2000, 229, 575-583.	5.0	36
36	Instability of plumes driven by localized heating. <i>Journal of Fluid Mechanics</i> , 2013, 736, 616-640.	1.4	35

#	ARTICLE	IF	CITATIONS
37	Global endwall effects on centrifugally stable flows. <i>Physics of Fluids</i> , 2008, 20, .	1.6	33
38	Symmetry breaking to a rotating wave in a lid-driven cylinder with a free surface: Experimental observation. <i>Physics of Fluids</i> , 2002, 14, L29-L32.	1.6	32
39	Onset of three-dimensional unsteady states in small-aspect-ratio Taylorâ€“Couette flow. <i>Journal of Fluid Mechanics</i> , 2006, 561, 255.	1.4	32
40	Rotating and modulated rotating waves in transitions of an enclosed swirling flow. <i>Journal of Fluid Mechanics</i> , 2006, 553, 323.	1.4	32
41	Spatio-temporal dynamics of a periodically driven cavity flow. <i>Journal of Fluid Mechanics</i> , 2003, 478, 197-226.	1.4	31
42	Bursting dynamics due to a homoclinic cascade in Taylorâ€“Couette flow. <i>Journal of Fluid Mechanics</i> , 2008, 613, 357-384.	1.4	31
43	Onset of convection in a moderate aspect-ratio rotating cylinder: Eckhausâ€“Benjaminâ€“Feir instability. <i>Journal of Fluid Mechanics</i> , 2007, 590, 187-208.	1.4	29
44	Triadic resonances in precessing rapidly rotating cylinder flows. <i>Journal of Fluid Mechanics</i> , 2015, 778, .	1.4	29
45	Spatial and temporal resonances in a periodically forced hydrodynamic system. <i>Physica D: Nonlinear Phenomena</i> , 2000, 136, 340-352.	1.3	28
46	Symmetry Breaking Via Global Bifurcations of Modulated Rotating Waves in Hydrodynamics. <i>Physical Review Letters</i> , 2005, 94, 074501.	2.9	28
47	Mode competition of rotating waves in reflection-symmetric Taylorâ€“Couette flow. <i>Journal of Fluid Mechanics</i> , 2005, 540, 269.	1.4	27
48	Precession of a rapidly rotating cylinder flow: traverse through resonance. <i>Journal of Fluid Mechanics</i> , 2015, 782, 63-98.	1.4	26
49	Instabilities and inertial waves generated in a librating cylinder. <i>Journal of Fluid Mechanics</i> , 2011, 687, 171-193.	1.4	25
50	Rapidly rotating precessing cylinder flows: forced triadic resonances. <i>Journal of Fluid Mechanics</i> , 2018, 839, 239-270.	1.4	24
51	Mode competition between rotating waves in a swirling flow with reflection symmetry. <i>Journal of Fluid Mechanics</i> , 2004, 507, 265-288.	1.4	23
52	Stability control and catastrophic transition in a forced Taylorâ€“Couette system. <i>Journal of Fluid Mechanics</i> , 2007, 590, 471-496.	1.4	23
53	Double-Diffusive Convection from a Discrete Heat and Solute Source in a Vertical Porous Annulus. <i>Transport in Porous Media</i> , 2012, 91, 753-775.	1.2	23
54	Tangent double Hopf bifurcation in a differentially rotating cylinder flow. <i>Physical Review E</i> , 2003, 68, 016310.	0.8	22

#	ARTICLE	IF	CITATIONS
55	Travelling circular waves in axisymmetric rotating convection. <i>Journal of Fluid Mechanics</i> , 2006, 569, 331.	1.4	22
56	Two-fluid confined flow in a cylinder driven by a rotating end wall. <i>Physical Review E</i> , 2012, 85, 016308.	0.8	22
57	Three-dimensional swirling flows in a tall cylinder driven by a rotating endwall. <i>Physics of Fluids</i> , 2012, 24, .	1.6	22
58	Sidewall boundary layer instabilities in a rapidly rotating cylinder driven by a differentially corotating lid. <i>Physics of Fluids</i> , 2010, 22, .	1.6	21
59	Code verification for finite volume multiphase scalar equations using the method of manufactured solutions. <i>Journal of Computational Physics</i> , 2012, 231, 2924-2944.	1.9	21
60	Shear-induced amyloid fibrillization: the role of inertia. <i>Soft Matter</i> , 2016, 12, 3461-3467.	1.2	21
61	Influence of an inhomogeneous internal magnetic field on the flow dynamics of a ferrofluid between differentially rotating cylinders. <i>Physical Review E</i> , 2012, 85, 066314.	0.8	20
62	Transition to complex dynamics in the cubic lid-driven cavity. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	20
63	Small aspect ratio Taylor-Couette flow: Onset of a very-low-frequency three-torus state. <i>Physical Review E</i> , 2003, 68, 036302.	0.8	19
64	Mode competition in modulated Taylor-Couette flow. <i>Journal of Fluid Mechanics</i> , 2008, 601, 381-406.	1.4	19
65	Slow passage through resonance. <i>Physical Review E</i> , 2011, 84, 056604.	0.8	19
66	Modulated Taylor-Couette Flow: Onset of Spiral Modes. <i>Theoretical and Computational Fluid Dynamics</i> , 2002, 16, 59-69.	0.9	18
67	Flow induced patterning at the air-water interface. <i>Physics of Fluids</i> , 2003, 15, L45.	1.6	18
68	Symmetry-breaking Hopf bifurcations to 1-, 2-, and 3-tori in small-aspect-ratio counterrotating Taylor-Couette flow. <i>Physical Review E</i> , 2012, 86, 046316.	0.8	18
69	Effect of elongational flow on ferrofluids under a magnetic field. <i>Physical Review E</i> , 2013, 88, 013003.	0.8	18
70	Coupling of the interfacial and bulk flow in knife-edge viscometers. <i>Physics of Fluids</i> , 2015, 27, 042102.	1.6	18
71	Complex dynamics in a short annular container with rotating bottom and inner cylinder. <i>Journal of Fluid Mechanics</i> , 2004, 501, 327-354.	1.4	17
72	Quenching of vortex breakdown oscillations via harmonic modulation. <i>Journal of Fluid Mechanics</i> , 2008, 599, 441-464.	1.4	17

#	ARTICLE	IF	CITATIONS
73	Optimal harmonic response in a confined BÃ¶rdewadt boundary layer flow. Physical Review E, 2010, 82, 036301.	0.8	17
74	On triadic resonance as an instability mechanism in precessing cylinder flow. Journal of Fluid Mechanics, 2018, 841, .	1.4	17
75	Complex dynamics in a stratified lid-driven square cavity flow. Journal of Fluid Mechanics, 2018, 855, 43-66.	1.4	17
76	Onset of KÃ¼ppersâ€™Lortz-like dynamics in finite rotating thermal convection. Journal of Fluid Mechanics, 2010, 644, 337-357.	1.4	16
77	Noise-induced enhancement of chemical reactions in nonlinear flows. Chaos, 2002, 12, 417-425.	1.0	15
78	Non-Newtonian Behavior of an Insoluble Monolayer: Effects of Inertia. Journal of Colloid and Interface Science, 2002, 248, 103-110.	5.0	15
79	Finite aspect ratio Taylorâ€™Couette flow: Shilâ€™nikov dynamics of 2-tori. Physica D: Nonlinear Phenomena, 2005, 211, 168-191.	1.3	15
80	Protein Crystallization at the Air/Water Interface Induced by Shearing Bulk Flow. Langmuir, 2007, 23, 5227-5230.	1.6	15
81	Rapidly rotating cylinder flow with an oscillating sidewall. Physical Review E, 2014, 89, 013013.	0.8	15
82	Evolution of an initially columnar vortex terminating normal to a no-slip wall. Experiments in Fluids, 2000, 29, 309-321.	1.1	14
83	Modulated rotating convection: radially travelling concentric rolls. Journal of Fluid Mechanics, 2008, 608, 357-378.	1.4	14
84	Pinning of rotating waves to defects in finite Taylorâ€™Couette flow. Journal of Fluid Mechanics, 2011, 666, 254-272.	1.4	14
85	Addendum to â€™Two-fluid confined flow in a cylinder driven by a rotating endwallâ€™. Physical Review E, 2012, 85, 067301.	0.8	14
86	Surface shear viscosity as a macroscopic probe of amyloid fibril formation at a fluid interface. Soft Matter, 2017, 13, 1780-1787.	1.2	14
87	Interacting oscillatory boundary layers and wall modes in modulated rotating convection. Journal of Fluid Mechanics, 2009, 625, 75-96.	1.4	13
88	Confined rotating convection with large Prandtl number: Centrifugal effects on wall modes. Physical Review E, 2014, 89, 013019.	0.8	13
89	Nonlinear and detuning effects of the nutation angle in precessionally forced rotating cylinder flow. Physical Review Fluids, 2016, 1, .	1.0	13
90	Oscillatory Driven Cavity with an Air/Water Interface and an Insoluble Monolayer: Surface Viscosity Effects. Journal of Colloid and Interface Science, 2001, 242, 1-5.	5.0	12

#	ARTICLE	IF	CITATIONS
91	Influence of wall modes on the onset of bulk convection in a rotating cylinder. <i>Physics of Fluids</i> , 2008, 20, .	1.6	12
92	Bulk flow driven by a viscous monolayer. <i>Journal of Fluid Mechanics</i> , 2015, 785, 283-300.	1.4	12
93	Librational forcing of a rapidly rotating fluid-filled cube. <i>Journal of Fluid Mechanics</i> , 2018, 842, 469-494.	1.4	12
94	Coupling Between a Viscoelastic Gas/Liquid Interface and a Swirling Vortex Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1998, 120, 655-661.	0.8	11
95	On the Flow Induced by Centrifugal Buoyancy in a Differentially-Heated Rotating Cylinder. <i>Theoretical and Computational Fluid Dynamics</i> , 2000, 14, 39-54.	0.9	11
96	Influence of coexisting phases on the surface dilatational viscosity of Langmuir monolayers. <i>Physical Review E</i> , 2004, 70, 056308.	0.8	11
97	Bifurcations with imperfect $SO(2)$ symmetry and pinning of rotating waves. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20120348.	1.0	11
98	Transition from Newtonian to non-Newtonian surface shear viscosity of phospholipid monolayers. <i>Physics of Fluids</i> , 2013, 25, .	1.6	11
99	Modelling steady shear flows of Newtonian liquids with non-Newtonian interfaces. <i>Journal of Fluid Mechanics</i> , 2017, 814, 5-23.	1.4	11
100	Predicting Steady Shear Rheology of Condensed-Phase Monomolecular Films at the Air-Water Interface. <i>Physical Review Letters</i> , 2018, 121, 164502.	2.9	11
101	Behavior of streamwise rib vortices in a three-dimensional mixing layer. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993, 5, 1694-1702.	1.6	10
102	Imperfect gluing bifurcation in a temporal glide-reflection symmetric Taylor-Couette flow. <i>Physics of Fluids</i> , 2002, 14, L33-L36.	1.6	10
103	Three-dimensional modes in a periodically driven elongated cavity. <i>Physical Review E</i> , 2005, 71, 026305.	0.8	10
104	Experimental and numerical investigation of the competition between axisymmetric time-periodic modes in an enclosed swirling flow. <i>Physics of Fluids</i> , 2006, 18, 104106.	1.6	10
105	Constant-flux discrete heating in a unit aspect-ratio annulus. <i>Fluid Dynamics Research</i> , 2012, 44, 065507.	0.6	10
106	Dynamics in a stably stratified tilted square cavity. <i>Journal of Fluid Mechanics</i> , 2020, 883, .	1.4	10
107	Spontaneous generation of a swirling plume in a stratified ambient. <i>Journal of Fluid Mechanics</i> , 2014, 761, 443-463.	1.4	9
108	Subcritical instability of finite circular Couette flow with stationary inner cylinder. <i>Journal of Fluid Mechanics</i> , 2016, 793, 589-611.	1.4	9

#	ARTICLE	IF	CITATIONS
109	Parametrically forced stably stratified cavity flow: complicated nonlinear dynamics near the onset of instability. <i>Journal of Fluid Mechanics</i> , 2019, 871, 1067-1096.	1.4	9
110	Reflections and focusing of inertial waves in a librating cube with the rotation axis oblique to its faces. <i>Journal of Fluid Mechanics</i> , 2020, 896, .	1.4	9
111	Impact of centrifugal buoyancy on strato-rotational instability. <i>Journal of Fluid Mechanics</i> , 2020, 890, .	1.4	9
112	Precessing cube: resonant excitation of modes and triadic resonance. <i>Journal of Fluid Mechanics</i> , 2020, 887, .	1.4	9
113	Flow-Induced Patterning of Langmuir Monolayers. <i>Langmuir</i> , 2004, 20, 5651-5654.	1.6	8
114	Harmonically forced enclosed swirling flow. <i>Physics of Fluids</i> , 2009, 21, .	1.6	8
115	Three-dimensional instabilities and inertial waves in a rapidly rotating split-cylinder flow. <i>Journal of Fluid Mechanics</i> , 2016, 800, 666-687.	1.4	8
116	Vertically forced stably stratified cavity flow: instabilities of the basic state. <i>Journal of Fluid Mechanics</i> , 2018, 851, .	1.4	8
117	Vortex evolution in non-axisymmetric impulsive spin-up from rest. <i>Journal of Fluid Mechanics</i> , 1996, 324, 109-134.	1.4	7
118	Coupling between protein-laden films and a shearing bulk flow. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 79-86.	5.0	7
119	Transitions to three-dimensional flows in a cylinder driven by oscillations of the sidewall. <i>Journal of Fluid Mechanics</i> , 2011, 681, 515-536.	1.4	7
120	Modulated waves in a periodically driven annular cavity. <i>Journal of Fluid Mechanics</i> , 2011, 667, 336-357.	1.4	7
121	Three-dimensional instabilities in a discretely heated annular flow: Onset of spatio-temporal complexity via defect dynamics. <i>Physics of Fluids</i> , 2014, 26, 064102.	1.6	7
122	Instabilities of the sidewall boundary layer in a rapidly rotating split cylinder. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 52, 76-84.	1.2	7
123	Mixing within drops via surface shear viscosity. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 559-568.	2.5	7
124	Endwall effects in a periodically forced centrifugally unstable flow. <i>Fluid Dynamics Research</i> , 2000, 27, 91-108.	0.6	6
125	Flow-induced 2D protein crystallization: characterization of the coupled interfacial and bulk flows. <i>Soft Matter</i> , 2015, 11, 3618-3628.	1.2	6
126	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> , 2017, 44, 144-158.	1.7	6

#	ARTICLE	IF	CITATIONS
127	On the origins of steady streaming in precessing fluids. <i>Journal of Fluid Mechanics</i> , 2021, 910, .	1.4	6
128	Oscillatory shear rheology measurements and Newtonian modeling of insoluble monolayers. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	6
129	Effects of Microorganisms on Drop Formation in Microgravity During a Parabolic Flight with Residual Gravity and Jitter. <i>Microgravity Science and Technology</i> , 2022, 34, 1.	0.7	6
130	Effects of Shearing Flow with Inertia on Monolayer Mesoscale Structure. <i>Langmuir</i> , 2006, 22, 9483-9486.	1.6	5
131	Transition processes for junction vortex flow. <i>Journal of Fluid Mechanics</i> , 2007, 585, 457-467.	1.4	5
132	Experimental and numerical investigation of a strongly-forced precessing cylinder flow. <i>International Journal of Heat and Fluid Flow</i> , 2016, 61, 68-74.	1.1	5
133	Parametrically forced stably stratified flow in a three-dimensional rectangular container. <i>Journal of Fluid Mechanics</i> , 2020, 900, .	1.4	5
134	Simulated microgravity in the ring-sheared drop. <i>Npj Microgravity</i> , 2020, 6, 2.	1.9	5
135	Stably stratified square cavity subjected to horizontal oscillations: responses to small amplitude forcing. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	5
136	Flow in a ring-sheared drop: Drop deformation. <i>Physics of Fluids</i> , 2021, 33, .	1.6	5
137	Flow in a containerless liquid system: Ring-sheared drop with finite surface shear viscosity. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	5
138	Slow passage through multiple bifurcation points. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2013, 18, 95-107.	0.5	5
139	Axisymmetric vortex breakdown in an enclosed cylinder flow. , 1989, , 384-388.		4
140	Modal reduction of a parametrically forced confined viscous flow. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	4
141	Time-Dependent Thermal Convection. <i>Publications of the Astronomical Society of Australia</i> , 1983, 5, 173-175.	1.3	3
142	Evolution of a Horizontal Scale for Magnetoconvection. <i>Publications of the Astronomical Society of Australia</i> , 1987, 7, 112-116.	1.3	3
143	A mixed Fourier-Galerkin finite-volume method to solve the fluid dynamics equations in cylindrical geometries. <i>Fluid Dynamics Research</i> , 2012, 44, 031414.	0.6	3
144	Nonlinear mode interactions in a counter-rotating split-cylinder flow. <i>Journal of Fluid Mechanics</i> , 2017, 816, 719-745.	1.4	3

#	ARTICLE	IF	CITATIONS
145	Differentially rotating split-cylinder flow: Responses to weak harmonic forcing in the rapid rotation regime. <i>Physical Review Fluids</i> , 2017, 2, .	1.0	3
146	Stratified Taylor–Couette flow: nonlinear dynamics. <i>Journal of Fluid Mechanics</i> , 2022, 930, .	1.4	3
147	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> , 1986, 407, 313-324.	1.5	2
148	Determining the self-rotation number following a Naimark–Sacker bifurcation in the periodically forced Taylor–Couette flow. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2000, 51, 61-74.	0.7	2
149	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> , 2000, 51, 267.	0.7	2
150	Inertial waves in rapidly rotating flows: a dynamical systems perspective. <i>Physica Scripta</i> , 2016, 91, 124001.	1.2	2
151	Parametric instabilities of a stratified shear layer. <i>Journal of Fluid Mechanics</i> , 2021, 918, .	1.4	2
152	Coupling Vortical Bulk Flows to the Air–Water Interface: From Putting Oil on Troubled Waters to Surfactants on Protein Solutions. <i>Fluids</i> , 2021, 6, 198.	0.8	2
153	On the Boussinesq approximation in arbitrarily accelerating frames of reference. <i>Journal of Fluid Mechanics</i> , 2021, 924, .	1.4	2
154	Multi-Mode Study of Time-Dependent Thermal Convection With Hexagonal Planforms. <i>Publications of the Astronomical Society of Australia</i> , 1984, 5, 483-487.	1.3	1
155	The Evolution of a Horizontal Scale for Oscillatory Magnetoconvection. <i>Publications of the Astronomical Society of Australia</i> , 1989, 8, 25-28.	1.3	1
156	10.1063/1.3262817.1. , 2009, , .		1
157	10.1063/1.3517292.1. , 2010, , .		1
158	Dynamic Time Dependent Hexagonal Magnetoconvection. <i>Australian Journal of Physics</i> , 1985, 38, 885.	0.6	1
159	Video: Resonant collapse in a harmonically forced stratified cavity. , 0, , .		1
160	Oblique instability of a stratified oscillatory boundary layer. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	1
161	Magnetic Prandtl Number and Astrophysical Convection. <i>Publications of the Astronomical Society of Australia</i> , 1981, 4, 208-209.	1.3	0
162	The Influence of the Magnetic Boundary Conditions on the Nature of Astrophysical Convection. <i>Publications of the Astronomical Society of Australia</i> , 1983, 5, 172-173.	1.3	0

#	ARTICLE	IF	CITATIONS
163	Time Dependent Multimode Hexagonal Magnetoconvection. Publications of the Astronomical Society of Australia, 1985, 6, 227-231.	1.3	0
164	A Nonlinear Bifurcation in Cellular Convection Theory. Publications of the Astronomical Society of Australia, 1986, 6, 322-325.	1.3	0
165	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. Quarterly Journal of Mechanics and Applied Mathematics, 1987, 40, 303-314.	0.5	0
166	The Effect of Magnetic Field Strength on the Oscillatory Characteristics of Multimode Magnetoconvection. Publications of the Astronomical Society of Australia, 1993, 10, 275-277.	1.3	0
167	A numerical study of periodically forced flows using a spectral-projection method. , 1998, , 189-194.		0
168	Surfactant effects on heat transfer at gas/liquid interfaces. AIP Conference Proceedings, 2000, , .	0.3	0
169	From global to local bifurcations in a forced Taylor-Couette flow. Theoretical and Computational Fluid Dynamics, 2004, 18, 115-128.	0.9	0
170	INFLUENCE OF A NONLINEAR EQUATION OF STATE ON CONTAMINATION FRONTS AT AIR/WATER INTERFACES. , 2002, , 271-271.		0
171	Nonlinear Bifurcations to Time-dependent Rayleigh-Benard Convection. Australian Journal of Physics, 1988, 41, 63.	0.6	0