

# Tom Mullin

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

2,312  
citations

393982

19  
h-index

264894

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1888  
citing authors

#	ARTICLE	IF	CITATIONS
1	Creep Control in Soft Particle Packings. <i>Physical Review Letters</i> , 2022, 128, .	2.9	4
2	Decay of streaks and rolls in plane Couette–Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2021, 915, .	1.4	7
3	Levitation of a cylinder by a thin viscous film. <i>Journal of Fluid Mechanics</i> , 2021, 917, .	1.4	3
4	Levitation by thin viscous layers. <i>Journal of Fluid Mechanics</i> , 2020, 888, .	1.4	2
5	An experimental study of the motion of a light sphere in a rotating viscous fluid. <i>Journal of Fluid Mechanics</i> , 2018, 847, 119-133.	1.4	9
6	The interaction between rotationally oscillating spheres and solid boundaries in a Stokes flow. <i>Journal of Fluid Mechanics</i> , 2018, 849, 834-859.	1.4	5
7	On the motion of linked spheres in a Stokes flow. <i>Experiments in Fluids</i> , 2017, 58, 1.	1.1	12
8	On the buckling of elastic rings by external confinement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160227.	1.6	18
9	On the buckling of an elastic holey column. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170477.	1.0	21
10	Buckling of a holey column. <i>Soft Matter</i> , 2016, 12, 7112-7118.	1.2	16
11	Torsional oscillations of a sphere in a Stokes flow. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	8
12	Granular Segregation Driven by Particle Interactions. <i>Physical Review Letters</i> , 2015, 114, 178002.	2.9	16
13	Granular segregation in a thin drum rotating with periodic modulation. <i>Physical Review E</i> , 2014, 90, 052205.	0.8	5
14	Pattern switching in soft cellular solids under compression. <i>Soft Matter</i> , 2013, 9, 4951.	1.2	27
15	Rayleigh–Taylor instability in a finite cylinder: linear stability analysis and long-time fingering solutions. <i>Journal of Fluid Mechanics</i> , 2013, 734, 338-362.	1.4	13
16	Dynamic compression of elastic and plastic cellular solids. <i>Applied Physics Letters</i> , 2013, 103, 151909.	1.5	10
17	Balancing a cylinder on a thin vertical layer of viscous fluid. <i>Physical Review E</i> , 2013, 87, 065001.	0.8	3
18	Finite-amplitude solutions in the flow through a sudden expansion in a circular pipe. <i>Journal of Fluid Mechanics</i> , 2012, 691, 201-213.	1.4	41

#	ARTICLE	IF	CITATIONS
19	Pattern switching in two and three-dimensional soft solids. <i>Soft Matter</i> , 2012, 8, 1747-1750.	1.2	26
20	Magneto-elastic buckling of a soft cellular solid. <i>Soft Matter</i> , 2012, 8, 6880.	1.2	33
21	Deformation induced pattern transformation in a soft granular crystal. <i>Soft Matter</i> , 2011, 7, 2321.	1.2	15
22	Experimental Studies of Transition to Turbulence in a Pipe. <i>Annual Review of Fluid Mechanics</i> , 2011, 43, 1-24.	10.8	140
23	The rich structure of transition in a shear flow. <i>Journal of Fluid Mechanics</i> , 2010, 648, 1-4.	1.4	6
24	Drag and lift forces on a counter-rotating cylinder in rotating flow. <i>Journal of Fluid Mechanics</i> , 2010, 664, 150-173.	1.4	15
25	Negative Poisson's Ratio Behavior Induced by an Elastic Instability. <i>Advanced Materials</i> , 2010, 22, 361-366.	11.1	664
26	Bifurcation phenomena in the flow through a sudden expansion in a circular pipe. <i>Physics of Fluids</i> , 2009, 21, .	1.6	53
27	10.1063/1.3065482.1., 2009, , .		0
28	Mechanics of deformation-triggered pattern transformations and superelastic behavior in periodic elastomeric structures. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 2642-2668.	2.3	281
29	Unsteady fronts in the spin-down of a fluid-filled torus. <i>Physics of Fluids</i> , 2008, 20, .	1.6	13
30	Cavitation in anisotropic fluids. <i>Physics of Fluids</i> , 2008, 20, 023102.	1.6	7
31	Pattern Transformation Triggered by Deformation. <i>Physical Review Letters</i> , 2007, 99, 084301.	2.9	274
32	The motion of a prolate ellipsoid in a rotating Stokes flow. <i>Journal of Fluid Mechanics</i> , 2007, 583, 123-132.	1.4	8
33	Finite-amplitude thresholds for transition in pipe flow. <i>Journal of Fluid Mechanics</i> , 2007, 582, 169-178.	1.4	87
34	Decay of Turbulence in Pipe Flow. <i>Physical Review Letters</i> , 2006, 96, 094501.	2.9	139
35	The motion of a rough particle in a Stokes flow adjacent to a boundary. <i>Journal of Fluid Mechanics</i> , 2006, 557, 337.	1.4	20
36	Reverse rotation of a cylinder near a wall. <i>Physics of Fluids</i> , 2006, 18, 041703.	1.6	29

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37	Cavitation in a Lubrication Flow between a Moving Sphere and a Boundary. <i>Physical Review Letters</i> , 2005, 94, 124501.	2.9	46
38	An experimental study of fixed points and chaos in the motion of spheres in a Stokes flow. <i>IMA Journal of Applied Mathematics</i> , 2005, 70, 666-676.	0.8	13
39	Flow in a symmetric channel with an expanded section. <i>Fluid Dynamics Research</i> , 2003, 33, 433-452.	0.6	21
40	Numerical and experimental characterization of a family of two-roll mill flows. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 117-135.	1.0	20
41	GRANULAR MATERIALS: Mixing and De-mixing. <i>Science</i> , 2002, 295, 1851-1851.	6.0	59
42	Bifurcation phenomena in a Taylor-Couette flow with asymmetric boundary conditions. <i>Physics of Fluids</i> , 2001, 13, 136-140.	1.6	28
43	Coarsening of Self-Organized Clusters in Binary Mixtures of Particles. <i>Physical Review Letters</i> , 2000, 84, 4741-4744.	2.9	95