

Tom Mullin

List of Publications by Year in descending order

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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	Negative Poisson's Ratio Behavior Induced by an Elastic Instability. <i>Advanced Materials</i> , 2010, 22, 361-366.	11.1	664
2	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
3	Pattern Transformation Triggered by Deformation. <i>Physical Review Letters</i> , 2007, 99, 084301.	2.9	274
4	Experimental Studies of Transition to Turbulence in a Pipe. <i>Annual Review of Fluid Mechanics</i> , 2011, 43, 1-24.	10.8	140
5	Decay of Turbulence in Pipe Flow. <i>Physical Review Letters</i> , 2006, 96, 094501.	2.9	139
6	Coarsening of Self-Organized Clusters in Binary Mixtures of Particles. <i>Physical Review Letters</i> , 2000, 84, 4741-4744.	2.9	95
7	Finite-amplitude thresholds for transition in pipe flow. <i>Journal of Fluid Mechanics</i> , 2007, 582, 169-178.	1.4	87
8	GRANULAR MATERIALS: Mixing and De-mixing. <i>Science</i> , 2002, 295, 1851-1851.	6.0	59
9	Bifurcation phenomena in the flow through a sudden expansion in a circular pipe. <i>Physics of Fluids</i> , 2009, 21, .	1.6	53
10	Cavitation in a Lubrication Flow between a Moving Sphere and a Boundary. <i>Physical Review Letters</i> , 2005, 94, 124501.	2.9	46
11	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
12	Magneto-elastic buckling of a soft cellular solid. <i>Soft Matter</i> , 2012, 8, 6880.	1.2	33
13	Reverse rotation of a cylinder near a wall. <i>Physics of Fluids</i> , 2006, 18, 041703.	1.6	29
14	Bifurcation phenomena in a Taylor-Couette flow with asymmetric boundary conditions. <i>Physics of Fluids</i> , 2001, 13, 136-140.	1.6	28
15	Pattern switching in soft cellular solids under compression. <i>Soft Matter</i> , 2013, 9, 4951.	1.2	27
16	Pattern switching in two and three-dimensional soft solids. <i>Soft Matter</i> , 2012, 8, 1747-1750.	1.2	26
17	Flow in a symmetric channel with an expanded section. <i>Fluid Dynamics Research</i> , 2003, 33, 433-452.	0.6	21
18	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

#	ARTICLE	IF	CITATIONS
19	Numerical and experimental characterization of a family of two-roll mill flows. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 117-135.	1.0	20
20	The motion of a rough particle in a Stokes flow adjacent to a boundary. Journal of Fluid Mechanics, 2006, 557, 337.	1.4	20
21	On the buckling of elastic rings by external confinement. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160227.	1.6	18
22	Granular Segregation Driven by Particle Interactions. Physical Review Letters, 2015, 114, 178002.	2.9	16
23	Buckling of a holey column. Soft Matter, 2016, 12, 7112-7118.	1.2	16
24	Drag and lift forces on a counter-rotating cylinder in rotating flow. Journal of Fluid Mechanics, 2010, 664, 150-173.	1.4	15
25	Deformation induced pattern transformation in a soft granular crystal. Soft Matter, 2011, 7, 2321.	1.2	15
26	An experimental study of fixed points and chaos in the motion of spheres in a Stokes flow. IMA Journal of Applied Mathematics, 2005, 70, 666-676.	0.8	13
27	Unsteady fronts in the spin-down of a fluid-filled torus. Physics of Fluids, 2008, 20, .	1.6	13
28	Rayleigh-Taylor instability in a finite cylinder: linear stability analysis and long-time fingering solutions. Journal of Fluid Mechanics, 2013, 734, 338-362.	1.4	13
29	On the motion of linked spheres in a Stokes flow. Experiments in Fluids, 2017, 58, 1.	1.1	12
30	Dynamic compression of elastic and plastic cellular solids. Applied Physics Letters, 2013, 103, 151909.	1.5	10
31	An experimental study of the motion of a light sphere in a rotating viscous fluid. Journal of Fluid Mechanics, 2018, 847, 119-133.	1.4	9
32	The motion of a prolate ellipsoid in a rotating Stokes flow. Journal of Fluid Mechanics, 2007, 583, 123-132.	1.4	8
33	Torsional oscillations of a sphere in a Stokes flow. Experiments in Fluids, 2015, 56, 1.	1.1	8
34	Cavitation in anisotropic fluids. Physics of Fluids, 2008, 20, 023102.	1.6	7
35	Decay of streaks and rolls in plane Couette-Poiseuille flow. Journal of Fluid Mechanics, 2021, 915, .	1.4	7
36	The rich structure of transition in a shear flow. Journal of Fluid Mechanics, 2010, 648, 1-4.	1.4	6

#	ARTICLE	IF	CITATIONS
37	Granular segregation in a thin drum rotating with periodic modulation. Physical Review E, 2014, 90, 052205.	0.8	5
38	The interaction between rotationally oscillating spheres and solid boundaries in a Stokes flow. Journal of Fluid Mechanics, 2018, 849, 834-859.	1.4	5
39	Creep Control in Soft Particle Packings. Physical Review Letters, 2022, 128, .	2.9	4
40	Balancing a cylinder on a thin vertical layer of viscous fluid. Physical Review E, 2013, 87, 065001.	0.8	3
41	Levitation of a cylinder by a thin viscous film. Journal of Fluid Mechanics, 2021, 917, .	1.4	3
42	Levitation by thin viscous layers. Journal of Fluid Mechanics, 2020, 888, .	1.4	2
43	10.1063/1.3065482.1. , 2009, , .		0