

# Francesco Romano

## List of Publications by Year in descending order

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34  
papers

476  
citations

516561

16  
h-index

713332

21  
g-index

35  
all docs

35  
docs citations

35  
times ranked

215  
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle–boundary interaction in a shear-driven cavity flow. <i>Theoretical and Computational Fluid Dynamics</i> , 2017, 31, 427-445.	0.9	37
2	The Lid-Driven Cavity. <i>Computational Methods in Applied Sciences</i> (Springer), 2019, , 233-309.	0.1	33
3	Limit cycles for the motion of finite-size particles in axisymmetric thermocapillary flows in liquid bridges. <i>Physics of Fluids</i> , 2017, 29, .	1.6	30
4	Finite-size Lagrangian coherent structures in thermocapillary liquid bridges. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	29
5	Effects of surfactant on propagation and rupture of a liquid plug in a tube. <i>Journal of Fluid Mechanics</i> , 2019, 872, 407-437.	1.4	27
6	Peristaltic flow in the glymphatic system. <i>Scientific Reports</i> , 2020, 10, 21065.	1.6	25
7	Topology of three-dimensional steady cellular flow in a two-sided anti-parallel lid-driven cavity. <i>Journal of Fluid Mechanics</i> , 2017, 826, 302-334.	1.4	24
8	Liquid plug formation in an airway closure model. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	24
9	Numerical investigation of the interaction of a finite-size particle with a tangentially moving boundary. <i>International Journal of Heat and Fluid Flow</i> , 2016, 62, 75-82.	1.1	19
10	A generic mechanism for finite-size coherent particle structures. <i>International Journal of Multiphase Flow</i> , 2019, 111, 42-52.	1.6	19
11	The effect of viscoelasticity in an airway closure model. <i>Journal of Fluid Mechanics</i> , 2021, 913, .	1.4	18
12	Finite-size Lagrangian coherent structures in a two-sided lid-driven cavity. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	18
13	Lagrangian chaos in steady three-dimensional lid-driven cavity flow. <i>Chaos</i> , 2020, 30, 073121.	1.0	17
14	Forces and torques on a sphere moving near a dihedral corner in creeping flow. <i>European Journal of Mechanics, B/Fluids</i> , 2020, 84, 110-121.	1.2	17
15	Effects of Surface Tension and Yield Stress on Mucus Plug Rupture: A Numerical Study. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	0.6	17
16	Attractors for the motion of a finite-size particle in a two-sided lid-driven cavity. <i>Journal of Fluid Mechanics</i> , 2021, 906, .	1.4	16
17	Smoothed–profile method for momentum and heat transfer in particulate flows. <i>International Journal for Numerical Methods in Fluids</i> , 2017, 83, 485-512.	0.9	12
18	Propagation and rupture of elastoviscoplastic liquid plugs in airway reopening model. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2022, 300, 104718.	1.0	12

#	ARTICLE	IF	CITATIONS
19	Particle accumulation in high-Prandtl-number liquid bridges. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900058.	0.2	9
20	Cellular flow in a partially filled rotating drum: regular and chaotic advection. Journal of Fluid Mechanics, 2017, 825, 631-650.	1.4	8
21	Oscillatory switching centrifugation: dynamics of a particle in a pulsating vortex. Journal of Fluid Mechanics, 2018, 857, .	1.4	8
22	Interaction of a finite-size particle with the moving lid of a cavity. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 519-520.	0.2	7
23	Finite-size coherent particle structures in high-Prandtl-number liquid bridges. Physical Review Fluids, 2021, 6, .	1.0	7
24	Tracking particles in flows near invariant manifolds via balance functions. Nonlinear Dynamics, 2018, 92, 983-1000.	2.7	6
25	Capillary instability of a two-layer annular film: an airway closure model. Journal of Fluid Mechanics, 2022, 934, .	1.4	6
26	Coherent Particle Structures in High-Prandtl-Number Liquid Bridges. Microgravity Science and Technology, 2021, 33, 1.	0.7	5
27	Stability of generalized Kolmogorov flow in a channel. Physics of Fluids, 2021, 33, .	1.6	5
28	Attractors for the motion of finite-size particles in a two-sided lid-driven cavity. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 669-670.	0.2	4
29	Transition to turbulence in a heated non-Newtonian pipe flow. Physics of Fluids, 2021, 33, .	1.6	4
30	Particle Coherent Structures in Confined Oscillatory Switching Centrifugation. Crystals, 2021, 11, 183.	1.0	2
31	Stokesian motion of a spherical particle near a right corner made by tangentially moving walls. Journal of Fluid Mechanics, 2021, 927, .	1.4	2
32	Reconstructing the fluid flow by tracking of large particles. Physical Review Fluids, 2019, 4, .	1.0	2
33	Experimental and Numerical Analysis of a Compressor Stage under Flow Distortion. International Journal of Turbomachinery, Propulsion and Power, 2021, 6, 43.	0.5	2
34	Reconstructing the neutrally-buoyant particle flow near a singular corner. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	1.5	1