

# François Ric Risso

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,546  
citations

186265

28  
h-index

189892

50  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1600  
citing authors

#	ARTICLE	IF	CITATIONS
1	A few upstream bifurcations drive the spatial distribution of red blood cells in model microfluidic networks. <i>Soft Matter</i> , 2022, 18, 1463-1478.	2.7	13
2	Prediction of size distribution in dairy cream homogenization. <i>Journal of Food Engineering</i> , 2022, 324, 110973.	5.2	3
3	Statistics of velocity fluctuations in a homogeneous liquid fluidized bed. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	0
4	Bridge expansion after coalescence of two droplets in air: Inertial regime. <i>Physics of Fluids</i> , 2021, 33, 062112.	4.0	7
5	Numerical simulations of the agitation generated by coarse-grained bubbles moving at large Reynolds number. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	3.4	2
6	On the fluidization/sedimentation velocity of a homogeneous suspension in a low-inertia fluid. <i>Powder Technology</i> , 2021, 391, 1-10.	4.2	6
7	Determination of Interfacial Concentration of a Contaminated Droplet from Shape Oscillation Damping. <i>Physical Review Letters</i> , 2020, 124, 194501.	7.8	11
8	Physical modeling of the dam-break flow of sedimenting suspensions. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	4
9	Long-range hydrodynamic forces in liquid FM-AFM. <i>Nanotechnology</i> , 2020, 31, 455501.	2.6	2
10	A model for drop and bubble breakup frequency based on turbulence spectra. <i>AIChE Journal</i> , 2019, 65, 347-359.	3.6	31
11	Coalescence of Water Drops at an Oil-Water Interface Loaded with Microparticles and Surfactants. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 15573-15587.	3.7	10
12	Interfacial Dynamics and Rheology of a Crude-Oil Droplet Oscillating in Water at a High Frequency. <i>Langmuir</i> , 2019, 35, 9441-9455.	3.5	14
13	Sedimentation of gas-fluidized particles with random shape and size. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	5
14	Fluctuations in inertial dense homogeneous suspensions. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	5
15	Mixing mechanisms in a low-sheared inhomogeneous bubble column. <i>Chemical Engineering Science</i> , 2018, 186, 52-61.	3.8	7
16	Agitation, Mixing, and Transfers Induced by Bubbles. <i>Annual Review of Fluid Mechanics</i> , 2018, 50, 25-48.	25.0	131
17	Jump-to-contact instability: The nanoscale mechanism of droplet coalescence in air. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	3
18	Numerical simulations of a rising drop with shape oscillations in the presence of surfactants. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	14

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19	Experimental investigation of interfacial mass transfer mechanisms for a confined high-Reynolds-number bubble rising in a thin gap. <i>AIChE Journal</i> , 2017, 63, 2394-2408.	3.6	33
20	Near-field deformation of a liquid interface by atomic force microscopy. <i>Physical Review E</i> , 2017, 96, 012802.	2.1	3
21	Velocity fluctuations generated by the flow through a random array of spheres: a model of bubble-induced agitation. <i>Journal of Fluid Mechanics</i> , 2017, 823, 592-616.	3.4	13
22	Going beyond 20 $\mu\text{m}$ -sized channels for studying red blood cell phase separation in microfluidic bifurcations. <i>Biomicrofluidics</i> , 2016, 10, 034103.	2.4	36
23	Physical interpretation of probability density functions of bubble-induced agitation. <i>Journal of Fluid Mechanics</i> , 2016, 809, 240-263.	3.4	19
24	Time-resolved measurement of concentration fluctuations in a confined bubbly flow by LIF. <i>International Journal of Multiphase Flow</i> , 2016, 83, 153-161.	3.4	16
25	Scalar mixing in bubbly flows: Experimental investigation and diffusivity modelling. <i>Chemical Engineering Science</i> , 2016, 140, 114-122.	3.8	18
26	Mixing by bubble-induced turbulence. <i>Journal of Fluid Mechanics</i> , 2015, 776, 458-474.	3.4	53
27	Non-linear shape oscillations of rising drops and bubbles: Experiments and simulations. <i>Physics of Fluids</i> , 2015, 27, 123305.	4.0	21
28	Oscillations of a liquid bridge resulting from the coalescence of two droplets. <i>Physics of Fluids</i> , 2015, 27, 062103.	4.0	12
29	Dynamics and mass transfer of rising bubbles in a homogenous swarm at large gas volume fraction. <i>Journal of Fluid Mechanics</i> , 2015, 763, 254-285.	3.4	72
30	Coalescence of contaminated water drops at an oil/water interface: Influence of micro-particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 482, 514-528.	4.7	24
31	On the computation of viscous terms for incompressible two-phase flows with Level Set/Ghost Fluid Method. <i>Journal of Computational Physics</i> , 2015, 301, 289-307.	3.8	72
32	Homogeneous swarm of high-Reynolds-number bubbles rising within a thin gap. Part 2. Liquid dynamics. <i>Journal of Fluid Mechanics</i> , 2014, 758, 508-521.	3.4	38
33	Image registration algorithm for molecular tagging velocimetry applied to unsteady flow in Hele-Shaw cell. <i>Experimental Thermal and Fluid Science</i> , 2013, 44, 897-904.	2.7	5
34	A model of bubble-induced turbulence based on large-scale wake interactions. <i>Journal of Fluid Mechanics</i> , 2013, 719, 362-387.	3.4	56
35	Effect of rising motion on the damped shape oscillations of drops and bubbles. <i>Physics of Fluids</i> , 2013, 25, .	4.0	26
36	Unsteady rising of clean bubble in low viscosity liquid. <i>Bubble Science, Engineering &amp; Technology</i> , 2012, 4, 4-11.	0.2	8

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37	Dynamics of a high-Reynolds-number bubble rising within a thin gap. <i>Journal of Fluid Mechanics</i> , 2012, 707, 444-466.	3.4	65
38	Homogeneous swarm of high-Reynolds-number bubbles rising within a thin gap. Part 1. Bubble dynamics. <i>Journal of Fluid Mechanics</i> , 2012, 704, 211-231.	3.4	42
39	Wake-Induced Oscillatory Paths of Bodies Freely Rising or Falling in Fluids. <i>Annual Review of Fluid Mechanics</i> , 2012, 44, 97-121.	25.0	274
40	Velocimetry of red blood cells in microvessels by the dual-slit method: Effect of velocity gradients. <i>Microvascular Research</i> , 2012, 84, 249-261.	2.5	24
41	Shape oscillations of an oil drop rising in water: effect of surface contamination. <i>Journal of Fluid Mechanics</i> , 2012, 702, 533-542.	3.4	22
42	Modeling and simulation of inertial drop break-up in a turbulent pipe flow downstream of a restriction. <i>International Journal of Multiphase Flow</i> , 2012, 42, 1-8.	3.4	18
43	PIV with volume lighting in a narrow cell: An efficient method to measure large velocity fields of rapidly varying flows. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 1030-1037.	2.7	11
44	Experimental study of mass transfer in a dense bubble swarm. <i>Chemical Engineering Science</i> , 2011, 66, 3432-3440.	3.8	52
45	Theoretical model for $k^{\sim 3}$ spectra in dispersed multiphase flows. <i>Physics of Fluids</i> , 2011, 23, .	4.0	38
46	Inertial modes of a periodically forced buoyant drop attached to a capillary. <i>Physics of Fluids</i> , 2011, 23, 102104.	4.0	14
47	Experimental characterization of the agitation generated by bubbles rising at high Reynolds number. <i>Journal of Fluid Mechanics</i> , 2010, 643, 509-539.	3.4	155
48	Attenuation of the wake of a sphere in an intense incident turbulence with large length scales. <i>Physics of Fluids</i> , 2010, 22, .	4.0	33
49	Dynamical Model for the Buoyancy-Driven Zigzag Motion of Oblate Bodies. <i>Physical Review Letters</i> , 2009, 102, 134505.	7.8	19
50	Sound generation on bubble coalescence following detachment. <i>International Journal of Multiphase Flow</i> , 2008, 34, 938-949.	3.4	47
51	Wake attenuation in large Reynolds number dispersed two-phase flows. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 2177-2190.	3.4	40
52	Dynamics of axisymmetric bodies rising along a zigzag path. <i>Journal of Fluid Mechanics</i> , 2008, 606, 209-223.	3.4	35
53	Oscillatory motion and wake instability of freely rising axisymmetric bodies. <i>Journal of Fluid Mechanics</i> , 2007, 573, 479-502.	3.4	100
54	Dynamics of drop breakup in inhomogeneous turbulence at various volume fractions. <i>Journal of Fluid Mechanics</i> , 2007, 578, 85-94.	3.4	31

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55	Breakup of a drop in a liquid pipe flow through an orifice. <i>AIChE Journal</i> , 2007, 53, 56-68.	3.6	58
56	Experimental investigation of a bioartificial capsule flowing in a narrow tube. <i>Journal of Fluid Mechanics</i> , 2006, 547, 149.	3.4	67
57	Mouvements oscillatoires de corps en ascension dans un fluide peu visqueux : l'effet du rapport de forme. <i>Mécanique Et Industries</i> , 2005, 6, 279-283.	0.2	0
58	Rates of transport through a capsule membrane to attain Donnan equilibrium. <i>Journal of Colloid and Interface Science</i> , 2003, 263, 202-212.	9.4	27
59	Velocity fluctuations in a homogeneous dilute dispersion of high-Reynolds-number rising bubbles. <i>Journal of Fluid Mechanics</i> , 2002, 453, 395-410.	3.4	72
60	On the rise of an ellipsoidal bubble in water: oscillatory paths and liquid-induced velocity. <i>Journal of Fluid Mechanics</i> , 2001, 440, 235-268.	3.4	241
61	THE MECHANISMS OF DEFORMATION AND BREAKUP OF DROPS AND BUBBLES. <i>Multiphase Science and Technology</i> , 2000, 12, 50.	0.5	42
62	Local measurements in turbulent bubbly flows. <i>Nuclear Engineering and Design</i> , 1998, 184, 319-327.	1.7	23
63	Oscillations and breakup of a bubble immersed in a turbulent field. <i>Journal of Fluid Mechanics</i> , 1998, 372, 323-355.	3.4	160
64	Diffusive turbulence in a confined jet experiment. <i>Journal of Fluid Mechanics</i> , 1997, 337, 233-261.	3.4	33
65	Direct numerical simulations of wake vortices in intense homogeneous turbulence. <i>AIAA Journal</i> , 1997, 35, 1030-1040.	2.6	5