Philippe Marmottant

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Drying by pervaporation in elementary channel networks. Journal of Fluid Mechanics, 2021, 906, .	1.4	3
2	Pervaporation-induced drying in networks of channels of variable width. Microfluidics and Nanofluidics, 2021, 25, 1.	1.0	2
3	Multi-directional bubble generated streaming flows. Ultrasonics, 2020, 102, 106054.	2.1	6
4	Nonlinear dynamics of two coupled bubbles oscillating inside a liquid-filled cavity surrounded by an elastic medium. Physical Review E, 2019, 99, 053106.	0.8	10
5	Drying of channels by evaporation through a permeable medium. Journal of the Royal Society Interface, 2019, 16, 20180690.	1.5	9
6	Bubble Dynamics in Soft and Biological Matter. Annual Review of Fluid Mechanics, 2019, 51, 331-355.	10.8	117
7	Natural oscillations of a gas bubble in a liquid-filled cavity located in a viscoelastic medium. Journal of Sound and Vibration, 2018, 420, 61-72.	2.1	14
8	Model for the growth and the oscillation of a cavitation bubble in a spherical liquid-filled cavity enclosed in an elastic medium. Physical Review E, 2018, 97, 013108.	0.8	19
9	Cavitation in a liquid-filled cavity surrounded by an elastic medium: Intercoupling of cavitation events in neighboring cavities. Physical Review E, 2018, 98, 013108.	0.8	4
10	Trapping and exclusion zones in complex streaming patterns around a large assembly of microfluidic bubbles under ultrasound. Physical Review Fluids, 2018, 3, .	1.0	4
11	Bubble-based acoustic micropropulsors: active surfaces and mixers. Lab on A Chip, 2017, 17, 1515-1528.	3.1	31
12	On the statics and dynamics of fully confined bubbles. Journal of Fluid Mechanics, 2017, 827, 194-224.	1.4	42
13	Radiation dynamics of a cavitation bubble in a liquid-filled cavity surrounded by an elastic solid. Physical Review E, 2017, 95, 053104.	0.8	8
14	Visual quantification of embolism reveals leaf vulnerability to hydraulic failure. New Phytologist, 2016, 209, 1403-1409.	3.5	213
15	Revealing catastrophic failure of leaf networks under stress. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4865-4869.	3.3	146
16	Acoustic streaming produced by a cylindrical bubble undergoing volume and translational oscillations in a microfluidic channel. Physical Review E, 2016, 94, 033109.	0.8	3
17	Acoustic pulsation of a microbubble confined between elastic walls. Physics of Fluids, 2016, 28, 032004.	1.6	15
18	Propulsion of Bubble-Based Acoustic Microswimmers. Physical Review Applied, 2015, 4, .	1.5	74

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19	The fast dynamics of cavitation bubbles within water confined in elastic solids. Soft Matter, 2014, 10, 1455.	1.2	58
20	Physique des mouvements rapides chez les plantes. , 2014, , 4-8.	0.1	0
21	A dynamical model for the <i>Utricularia</i> trap. Journal of the Royal Society Interface, 2012, 9, 3129-3139.	1.5	11
22	Birth and Growth of Cavitation Bubbles within Water under Tension Confined in a Simple Synthetic Tree. Physical Review Letters, 2012, 108, 184502.	2.9	80
23	Biodegradable polymeric microcapsules for selective ultrasound-triggered drug release. Soft Matter, 2011, 7, 5417.	1.2	67
24	Buckling resistance of solid shell bubbles under ultrasound. Journal of the Acoustical Society of America, 2011, 129, 1231-1239.	0.5	64
25	Carnivorous Utricularia: The buckling scenario. Plant Signaling and Behavior, 2011, 6, 1752-1754.	1.2	13
26	Mechanical model of the ultrafast underwater trap of <i>Utricularia</i> . Physical Review E, 2011, 83, 021911.	0.8	20
27	Acoustically Bound Microfluidic Bubble Crystals. Physical Review Letters, 2011, 106, 134501.	2.9	43
28	Ultra-fast underwater suction traps. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2909-2914.	1.2	95
29	Spontaneous Firings of Carnivorous Aquatic Utricularia Traps: Temporal Patterns and Mechanical Oscillations. PLoS ONE, 2011, 6, e20205.	1.1	29
30	Microfluidic Crystals: Dynamic Interplay between Rearrangement Waves and Flow. Physical Review Letters, 2009, 102, 084501.	2.9	62
31	Microfluidics with foams. Soft Matter, 2009, 5, 3385.	1.2	83
32	Deformation and rupture of lipid vesicles in the strong shear flow generated by ultrasound-driven microbubbles. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 1781-1800.	1.0	49
33	Role of the Channel Geometry on the Bubble Pinch-Off in Flow-Focusing Devices. Physical Review Letters, 2008, 100, 034504.	2.9	196
34	High-speed imaging of an ultrasound-driven bubble in contact with a wall: "Narcissus―effect and resolved acoustic streaming. Experiments in Fluids, 2006, 41, 147-153.	1.1	81
35	Periodic Microfluidic Bubbling Oscillator: Insight into the Stability of Two-Phase Microflows. Physical Review Letters, 2006, 97, 154501.	2.9	46
36	A model for large amplitude oscillations of coated bubbles accounting for buckling and rupture. Journal of the Acoustical Society of America, 2005, 118, 3499-3505.	0.5	587

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37	A bubble-driven microfluidic transport element for bioengineering. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9523-9527.	3.3	173
38	Ultrasound-induced microbubble coalescence. Ultrasound in Medicine and Biology, 2004, 30, 1337-1344.	0.7	99
39	Controlled vesicle deformation and lysis by single oscillating bubbles. Nature, 2003, 423, 153-156.	13.7	731