Thomas Cubaud

List of Publications by Year
in descending order

33	1,422	471509 17	330143 37
papers	citations	h-index	g-index

37	37	37	1296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Viscous liquidâ€“liquid wetting and dewetting of textured surfaces. Soft Matter, 2021, 17, 879-886.	2.7	7
2	Glass surface micromachining with simultaneous nanomaterial deposition by picosecond laser for wettability control. Applied Surface Science, 2021, 546, 149050.	6.1	11
3	Role of Interfacial Tension on Viscous Multiphase Flows in Coaxial Microfluidic Channels. Langmuir, 2021, 37, 7420-7429.	3.5	9
4	Diffusive and capillary instabilities of viscous fluid threads in microchannels. Physical Review Fluids, 2021, 6, .	2.5	7
5	Swelling of Diffusive Fluid Threads in Microchannels. Physical Review Letters, 2020, 125, 174502.	7.8	7
6	Design, Fabrication, and Analysis of a Capillary Diode for Potential Application in Waterâ€“Oil Separation. ACS Applied Materials & Interfaces, 2020, 12, 45950-45960.	8.0	8
7	Forced Wetting and Dewetting of Water and Oil Droplets on Planar Microfluidic Grids. Langmuir, 2020, 36, 9269-9275.	3.5	7
8	From droplets to waves: periodic instability patterns in highly viscous microfluidic flows. Journal of Fluid Mechanics, 2020, 887, .	3.4	8
9	Segmented flows of viscous threads in microchannels. Physical Review Fluids, 2019, 4, .	2.5	4
10	Physical ageing of spreading droplets in a viscous ambient phase. Scientific Reports, 2018, 8, 14159.	3.3	8
11	Viscous Wave Breaking and Ligament Formation in Microfluidic Systems. Physical Review Letters, 2018, 121, 044502.	7.8	17
12	Role of viscosity coefficients during spreading and coalescence of droplets in liquids. Physical Review Fluids, 2017, 2, .	2.5	10
13	Separation of highly viscous fluid threads in branching microchannels. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	8
14	Inertial destabilization of highly viscous microfluidic stratifications. Physical Review Fluids, 2016, 1, .	2.5	15
15	Regimes of miscible fluid thread formation in microfluidic focusing sections. Physics of Fluids, 2014, 26, 122005.	4.0	25
16	Formation and dynamics of partially wetting droplets in square microchannels. RSC Advances, 2014, 4, 14962-14970.	3.6	49
17	Initial microfluidic dissolution regime of CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>bubbles in viscous oils. Physical Review E, 2013, 88, 051001.	2.1	33
18	CO2 dissolution in water using long serpentine microchannels. Biomicrofluidics, 2012, 6, 022002.	2.4	48

#	Article	IF	Citations
19	Formation of capillary structures with highly viscous fluids in plane microchannels. Soft Matter, 2012, 8, 10658.	2.7	12
20	Interacting viscous instabilities in microfluidic systems. Soft Matter, 2012, 8, 10573.	2.7	27
21	Droplet arrangement and coalescence in diverging/converging microchannels. Microfluidics and Nanofluidics, 2012, 12, 687-696.	2.2	66
22	Droplet breakup and viscosity-stratified flows in microchannels. International Journal of Multiphase Flow, 2012, 39, 29-36.	3.4	23
23	Ultrafast laser machining of tapered microchannels in glass and PDMS. Optics and Lasers in Engineering, 2012, 50, 210-214.	3.8	71
24	Dissolution of carbon dioxide bubbles and microfluidic multiphase flows. Lab on A Chip, 2011, 11, 2924.	6.0	77
25	Lubrication of Highly Viscous Core-Annular Flows in Microfluidic Chambers. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	7
26	Deformation and breakup of high-viscosity droplets with symmetric microfluidic cross flows. Physical Review E, 2009, 80, 026307.	2.1	45
27	Capillary threads and viscous droplets in square microchannels. Physics of Fluids, 2008, 20, .	4.0	316
28	Formation of miscible fluid microstructures by hydrodynamic focusing in plane geometries. Physical Review E, 2008, 78, 056308.	2.1	44
29	Swirling of Viscous Fluid Threads in Microchannels. Physical Review Letters, 2007, 98, 264501.	7.8	26
30	A Methanol-Tolerant Gas-Venting Microchannel for a Microdirect Methanol Fuel Cell. Journal of Microelectromechanical Systems, 2007, 16, 1403-1410.	2.5	44
31	Two-phase flow in microchannels with surface modifications. Fluid Dynamics Research, 2006, 38, 772-786.	1.3	160
32	Folding of Viscous Threads in Diverging Microchannels. Physical Review Letters, 2006, 96, 114501.	7.8	79
33	Bubble dispenser in microfluidic devices. Physical Review E, 2005, 72, 037302.	2.1	121