

Thomas Cubaud

List of Publications by Year in descending order

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33
papers

1,422
citations

471509

17
h-index

330143

37
g-index

37
all docs

37
docs citations

37
times ranked

1296
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary threads and viscous droplets in square microchannels. <i>Physics of Fluids</i> , 2008, 20, .	4.0	316
2	Two-phase flow in microchannels with surface modifications. <i>Fluid Dynamics Research</i> , 2006, 38, 772-786.	1.3	160
3	Bubble dispenser in microfluidic devices. <i>Physical Review E</i> , 2005, 72, 037302.	2.1	121
4	Folding of Viscous Threads in Diverging Microchannels. <i>Physical Review Letters</i> , 2006, 96, 114501.	7.8	79
5	Dissolution of carbon dioxide bubbles and microfluidic multiphase flows. <i>Lab on A Chip</i> , 2011, 11, 2924.	6.0	77
6	Ultrafast laser machining of tapered microchannels in glass and PDMS. <i>Optics and Lasers in Engineering</i> , 2012, 50, 210-214.	3.8	71
7	Droplet arrangement and coalescence in diverging/converging microchannels. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 687-696.	2.2	66
8	Formation and dynamics of partially wetting droplets in square microchannels. <i>RSC Advances</i> , 2014, 4, 14962-14970.	3.6	49
9	CO ₂ dissolution in water using long serpentine microchannels. <i>Biomicrofluidics</i> , 2012, 6, 022002.	2.4	48
10	Deformation and breakup of high-viscosity droplets with symmetric microfluidic cross flows. <i>Physical Review E</i> , 2009, 80, 026307.	2.1	45
11	A Methanol-Tolerant Gas-Venting Microchannel for a Microdirect Methanol Fuel Cell. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 1403-1410.	2.5	44
12	Formation of miscible fluid microstructures by hydrodynamic focusing in plane geometries. <i>Physical Review E</i> , 2008, 78, 056308.	2.1	44
13	Initial microfluidic dissolution regime of CO ₂ bubbles in viscous oils. <i>Physical Review E</i> , 2013, 88, 051001.	2.1	33
14	Interacting viscous instabilities in microfluidic systems. <i>Soft Matter</i> , 2012, 8, 10573.	2.7	27
15	Swirling of Viscous Fluid Threads in Microchannels. <i>Physical Review Letters</i> , 2007, 98, 264501.	7.8	26
16	Regimes of miscible fluid thread formation in microfluidic focusing sections. <i>Physics of Fluids</i> , 2014, 26, 122005.	4.0	25
17	Droplet breakup and viscosity-stratified flows in microchannels. <i>International Journal of Multiphase Flow</i> , 2012, 39, 29-36.	3.4	23
18	Viscous Wave Breaking and Ligament Formation in Microfluidic Systems. <i>Physical Review Letters</i> , 2018, 121, 044502.	7.8	17

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19	Inertial destabilization of highly viscous microfluidic stratifications. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	15
20	Formation of capillary structures with highly viscous fluids in plane microchannels. <i>Soft Matter</i> , 2012, 8, 10658.	2.7	12
21	Glass surface micromachining with simultaneous nanomaterial deposition by picosecond laser for wettability control. <i>Applied Surface Science</i> , 2021, 546, 149050.	6.1	11
22	Role of viscosity coefficients during spreading and coalescence of droplets in liquids. <i>Physical Review Fluids</i> , 2017, 2, .	2.5	10
23	Role of Interfacial Tension on Viscous Multiphase Flows in Coaxial Microfluidic Channels. <i>Langmuir</i> , 2021, 37, 7420-7429.	3.5	9
24	Separation of highly viscous fluid threads in branching microchannels. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	8
25	Physical ageing of spreading droplets in a viscous ambient phase. <i>Scientific Reports</i> , 2018, 8, 14159.	3.3	8
26	Design, Fabrication, and Analysis of a Capillary Diode for Potential Application in Water/Oil Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45950-45960.	8.0	8
27	From droplets to waves: periodic instability patterns in highly viscous microfluidic flows. <i>Journal of Fluid Mechanics</i> , 2020, 887, .	3.4	8
28	Lubrication of Highly Viscous Core-Annular Flows in Microfluidic Chambers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011, 133, .	1.5	7
29	Swelling of Diffusive Fluid Threads in Microchannels. <i>Physical Review Letters</i> , 2020, 125, 174502.	7.8	7
30	Forced Wetting and Dewetting of Water and Oil Droplets on Planar Microfluidic Grids. <i>Langmuir</i> , 2020, 36, 9269-9275.	3.5	7
31	Viscous liquid/liquid wetting and dewetting of textured surfaces. <i>Soft Matter</i> , 2021, 17, 879-886.	2.7	7
32	Diffusive and capillary instabilities of viscous fluid threads in microchannels. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	7
33	Segmented flows of viscous threads in microchannels. <i>Physical Review Fluids</i> , 2019, 4, .	2.5	4