Hanneke Gelderblom

List of Publications by Year
in descending order

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27 papers	1,262 citations	516215 16 h-index	500791 28 g-index
29 all docs	29 docs citations	29 times ranked	1385 citing authors

#	Article	IF	Citations
1	Order-to-Disorder Transition in Ring-Shaped Colloidal Stains. Physical Review Letters, 2011, 107, 085502.	2.9	339
2	How water droplets evaporate on a superhydrophobic substrate. Physical Review E, 2011, 83, 026306.	0.8	159
3	Building microscopic soccer balls with evaporating colloidal fakir drops. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16455-16458.	3.3	113
4	Drop Shaping by Laser-Pulse Impact. Physical Review Applied, 2015, 3, .	1.5	76
5	Plasma Propulsion of a Metallic Microdroplet and its Deformation upon Laser Impact. Physical Review Applied, 2016, 6, .	1.5	72
6	Stokes flow near the contact line of an evaporating drop. Journal of Fluid Mechanics, 2012, 709, 69-84.	1.4	58
7	Drop deformation by laser-pulse impact. Journal of Fluid Mechanics, 2016, 794, 676-699.	1.4	51
8	Solidification of liquid metal drops duringÂimpact. Journal of Fluid Mechanics, 2020, 883, .	1.4	40
9	Estimation of distributed arterial mechanical properties using a wave propagation model in a reverse way. Medical Engineering and Physics, 2010, 32, 957-967.	0.8	39
10	Contact line arrest in solidifying spreading drops. Physical Review Fluids, 2017, 2, .	1.0	37
11	Oblique drop impact onto a deep liquid pool. Physical Review Fluids, 2017, 2, .	1.0	36
12	Expansion Dynamics after Laser-Induced Cavitation in Liquid Tin Microdroplets. Physical Review Applied, 2018, 10, .	1.5	30
13	Drop fragmentation by laser-pulse impact. Journal of Fluid Mechanics, 2020, 893, .	1.4	30
14	Oscillations of a gas pocket on a liquid-covered solid surface. Physics of Fluids, 2012, 24, .	1.6	18
15	Droplet deformation by short laser-induced pressure pulses. Journal of Fluid Mechanics, 2017, 828, 374-394.	1.4	17
16	Mass Loss from a Stretching Semitransparent Sheet of Liquid Tin. Physical Review Applied, 2020, 13, .	1.5	16
17	Laser-to-droplet alignment sensitivity relevant for laser-produced plasma sources of extreme ultraviolet light. Journal of Applied Physics, 2018, 124, .	1.1	13
18	Axisymmetric multiphase lattice Boltzmann method for generic equations of state. Journal of Computational Science, 2016, 17, 309-314.	1.5	11

#	Article	IF	Citations
19	Early-time hydrodynamic response of a tin droplet driven by laser-produced plasma. Physical Review Research, 2022, 4, .	1.3	11
20	Stokes flow in a drop evaporating from a liquid subphase. Physics of Fluids, 2013, 25, 102102.	1.6	10
21	Self-agglomerated collagen patterns govern cell behaviour. Scientific Reports, 2021, 11, 1516.	1.6	9
22	Analytical and experimental characterization of a miniature calorimetric sensor in a pulsatile flow. Journal of Fluid Mechanics, 2011, 666, 428-444.	1.4	7
23	Initial solidification dynamics of spreading droplets. Physical Review Fluids, 2021, 6, .	1.0	7
24	Apparatus to control and visualize the impact of a high-energy laser pulse on a liquid target. Review of Scientific Instruments, 2017, 88, 095102.	0.6	5
25	How to unloop a self-adherent sheet. Europhysics Letters, 2021, 134, 56001.	0.7	2
26	Publisherâ€™s Note: How water droplets evaporate on a superhydrophobic substrate [Phys. Rev. E83, 026306 (2011)]. Physical Review E, 2011, 83, .	0.8	1
27	Estimation of the Arterial Mechanical Properties Based on a Patient Specific Wave Propagation Model Using a Stochastic Method. , 2009, , .		0