

James E Sprittles

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

918
citations

15
h-index

29
g-index

51
ext. papers

1,133
ext. citations

4.1
avg. IF

4.96
L-index

#	Paper	IF	Citations
43	Application of microfluidic systems in modelling impacts of environmental structure on stress-sensing by individual microbial cells.. <i>Computational and Structural Biotechnology Journal</i> , 2022 , 20, 128-138	6.8	
42	Stability of similarity solutions of viscous thread pinch-off. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	2
41	Evaporation from arbitrary nanoporous membrane configurations: An effective evaporation coefficient approach. <i>Physics of Fluids</i> , 2021 , 33, 032022	4.4	4
40	Efficient simulation of non-classical liquid vapour phase-transition flows: a method of fundamental solutions. <i>Journal of Fluid Mechanics</i> , 2021 , 919,	3.7	2
39	Relaxation of Thermal Capillary Waves for Nanoscale Liquid Films on Anisotropic-Slip Substrates. <i>Langmuir</i> , 2021 , 37, 8667-8676	4	0
38	Bouncing off the Walls: The Influence of Gas-Kinetic and van der Waals Effects in Drop Impact. <i>Physical Review Letters</i> , 2020 , 124, 084501	7.4	10
37	Dynamics of liquid nanothreads: Fluctuation-driven instability and rupture. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	7
36	Velocity distribution function of spontaneously evaporating atoms. <i>Physical Review Fluids</i> , 2020 , 5,	2.8	5
35	A computational study of fluctuating viscoelastic forces on trapped interfaces in porous media. <i>European Journal of Mechanics, B/Fluids</i> , 2020 , 84, 496-506	2.4	
34	Nanoscale thin-film flows with thermal fluctuations and slip. <i>Physical Review E</i> , 2020 , 102, 053105	2.4	6
33	Molecular physics of jumping nanodroplets. <i>Nanoscale</i> , 2020 , 12, 20631-20637	7.7	4
32	Comment on Applying a second-kind boundary integral equation for surface tractions in Stokes flow \square <i>Journal of Computational Physics</i> , 2020 , 401, 109007	4.1	0
31	Revisiting the Rayleigh-Plateau instability for the nanoscale. <i>Journal of Fluid Mechanics</i> , 2019 , 861,	3.7	24
30	Thermophoresis of a spherical particle: modelling through moment-based, macroscopic transport equations. <i>Journal of Fluid Mechanics</i> , 2019 , 862, 312-347	3.7	6
29	Droplet Coalescence is Initiated by Thermal Motion. <i>Physical Review Letters</i> , 2019 , 122, 104501	7.4	35
28	Molecular simulation of thin liquid films: Thermal fluctuations and instability. <i>Physical Review E</i> , 2019 , 100, 023108	2.4	11
27	Lifetime of a Nanodroplet: Kinetic Effects and Regime Transitions. <i>Physical Review Letters</i> , 2019 , 123, 154501	7.4	8

26	Numerical investigation of nanoporous evaporation using direct simulation Monte Carlo. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	10
25	Dynamic drying transition via free-surface cusps. <i>Journal of Fluid Mechanics</i> , 2019 , 858, 760-786	3.7	5
24	Evaporation-driven vapour microflows: analytical solutions from moment methods. <i>Journal of Fluid Mechanics</i> , 2018 , 841, 962-988	3.7	5
23	Mean-field kinetic theory approach to evaporation of a binary liquid into vacuum. <i>Physical Review Fluids</i> , 2018 , 3,	2.8	21
22	Kinetic Effects in Dynamic Wetting. <i>Physical Review Letters</i> , 2017 , 118, 114502	7.4	31
21	Fundamental solutions to the regularised 13-moment equations: efficient computation of three-dimensional kinetic effects. <i>Journal of Fluid Mechanics</i> , 2017 , 833,	3.7	8
20	Capillary breakup of a liquid bridge: identifying regimes and transitions. <i>Journal of Fluid Mechanics</i> , 2016 , 797, 29-59	3.7	50
19	Dynamic measurements and simulations of airborne picolitre-droplet coalescence in holographic optical tweezers. <i>Journal of Chemical Physics</i> , 2016 , 145, 054502	3.9	24
18	The formation of a bubble from a submerged orifice. <i>European Journal of Mechanics, B/Fluids</i> , 2015 , 53, 24-36	2.4	35
17	Air entrainment in dynamic wetting: Knudsen effects and the influence of ambient air pressure. <i>Journal of Fluid Mechanics</i> , 2015 , 769, 444-481	3.7	21
16	How coalescing droplets jump. <i>ACS Nano</i> , 2014 , 8, 10352-62	16.7	239
15	The coalescence of liquid drops in a viscous fluid: interface formation model. <i>Journal of Fluid Mechanics</i> , 2014 , 751, 480-499	3.7	11
14	A parametric study of the coalescence of liquid drops in a viscous gas. <i>Journal of Fluid Mechanics</i> , 2014 , 753, 279-306	3.7	17
13	Dynamics of liquid drops coalescing in the inertial regime. <i>Physical Review E</i> , 2014 , 89, 063008	2.4	15
12	Dynamic contact angle of a liquid spreading on an unsaturated wettable porous substrate. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 273-282	3.7	8
11	Finite element simulation of dynamic wetting flows as an interface formation process. <i>Journal of Computational Physics</i> , 2013 , 233, 34-65	4.1	36
10	Drop spreading and penetration into pre-wetted powders. <i>Powder Technology</i> , 2013 , 239, 128-136	5.2	30
9	Finite element framework for describing dynamic wetting phenomena. <i>International Journal for Numerical Methods in Fluids</i> , 2012 , 68, 1257-1298	1.9	42

8	Wetting front dynamics in an isotropic porous medium. <i>Journal of Fluid Mechanics</i> , 2012 , 694, 399-407	3.7	11
7	Coalescence of liquid drops: Different models versus experiment. <i>Physics of Fluids</i> , 2012 , 24, 122105	4.4	82
6	Anomalous dynamics of capillary rise in porous media. <i>Physical Review E</i> , 2012 , 86, 016306	2.4	7
5	The dynamics of liquid drops and their interaction with solids of varying wettabilities. <i>Physics of Fluids</i> , 2012 , 24, 082001	4.4	41
4	Viscous flow in domains with corners: Numerical artifacts, their origin and removal. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 1087-1099	5.7	12
3	Viscous flows in corner regions: Singularities and hidden eigensolutions. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 372-382	1.9	7
2	A continuum model for the flow of thin liquid films over intermittently chemically patterned surfaces. <i>European Physical Journal: Special Topics</i> , 2009 , 166, 159-163	2.3	5
1	Viscous flow over a chemically patterned surface. <i>Physical Review E</i> , 2007 , 76, 021602	2.4	12