

George Karapetsas

List of Publications by Year in descending order

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41
papers

1,242
citations

361045

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360668

35
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docs citations

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times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	Steady bubble rise and deformation in Newtonian and viscoplastic fluids and conditions for bubble entrapment. <i>Journal of Fluid Mechanics</i> , 2008, 601, 123-164.	1.4	135
2	Evaporation of Sessile Droplets Laden with Particles and Insoluble Surfactants. <i>Langmuir</i> , 2016, 32, 6871-6881.	1.6	88
3	Thermocapillary-Driven Motion of a Sessile Drop: Effect of Non-Monotonic Dependence of Surface Tension on Temperature. <i>Langmuir</i> , 2014, 30, 4310-4321.	1.6	86
4	On surfactant-enhanced spreading and superspreading of liquid drops on solid surfaces. <i>Journal of Fluid Mechanics</i> , 2011, 670, 5-37.	1.4	85
5	Convective Rolls and Hydrothermal Waves in Evaporating Sessile Drops. <i>Langmuir</i> , 2012, 28, 11433-11439.	1.6	82
6	Effect of Contact Line Dynamics on the Thermocapillary Motion of a Droplet on an Inclined Plate. <i>Langmuir</i> , 2013, 29, 8892-8906.	1.6	70
7	Bubble rise dynamics in a viscoplastic material. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 222, 217-226.	1.0	51
8	Transient squeeze flow of viscoplastic materials. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 133, 35-56.	1.0	48
9	Surfactant-driven dynamics of liquid lenses. <i>Physics of Fluids</i> , 2011, 23, .	1.6	44
10	Non-isothermal bubble rise: non-monotonic dependence of surface tension on temperature. <i>Journal of Fluid Mechanics</i> , 2015, 763, 82-108.	1.4	39
11	Thermocapillary Droplet Actuation: Effect of Solid Structure and Wettability. <i>Langmuir</i> , 2017, 33, 10838-10850.	1.6	38
12	On the origin of extrusion instabilities: Linear stability analysis of the viscoelastic die swell. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 224, 61-77.	1.0	32
13	Efficient modelling of droplet dynamics on complex surfaces. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 085101.	0.7	32
14	On phase change in Marangoni-driven flows and its effects on the hydrothermal-wave instabilities. <i>Physics of Fluids</i> , 2014, 26, .	1.6	31
15	The primary instability of falling films in the presence of soluble surfactants. <i>Journal of Fluid Mechanics</i> , 2013, 729, 123-150.	1.4	30
16	Steady extrusion of viscoelastic materials from an annular die. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 154, 136-152.	1.0	29
17	Linear and nonlinear stability of hydrothermal waves in planar liquid layers driven by thermocapillarity. <i>Physics of Fluids</i> , 2013, 25, .	1.6	28
18	Numerical simulation of pressure-driven displacement of a viscoplastic material by a Newtonian fluid using the lattice Boltzmann method. <i>European Journal of Mechanics, B/Fluids</i> , 2015, 49, 197-207.	1.2	27

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19	The role of surfactants on the mechanism of the long-wave instability in liquid film flows. <i>Journal of Fluid Mechanics</i> , 2014, 741, 139-155.	1.4	25
20	How asymmetric surfaces induce directional droplet motion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 511, 180-189.	2.3	23
21	Injection of a viscoplastic material inside a tube or between two parallel disks: Conditions for wall detachment of the advancing front. <i>Journal of Rheology</i> , 2009, 53, 1155-1191.	1.3	20
22	On the stick-slip flow from slit and cylindrical dies of a Phan-Thien and Tanner fluid model. II. Linear stability analysis. <i>Physics of Fluids</i> , 2013, 25, 093105.	1.6	18
23	Non-isothermal bubble rise dynamics in a self-rewetting fluid: three-dimensional effects. <i>Journal of Fluid Mechanics</i> , 2019, 858, 689-713.	1.4	18
24	Spreading and retraction dynamics of sessile evaporating droplets comprising volatile binary mixtures. <i>Journal of Fluid Mechanics</i> , 2021, 907, .	1.4	18
25	Steady viscoelastic film flow over 2D Topography: II. The effect of capillarity, inertia and substrate geometry. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016, 234, 201-214.	1.0	15
26	Transient flow of gravity-driven viscous films over 3D patterned substrates: conditions leading to Wenzel, Cassie and intermediate states. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	13
27	Effect of substrate topography, material wettability and dielectric thickness on reversible electrowetting. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 595-604.	2.3	13
28	Dynamics of hygroscopic aqueous solution droplets undergoing evaporation or vapour absorption. <i>Journal of Fluid Mechanics</i> , 2021, 912, .	1.4	13
29	On the stick-slip flow from slit and cylindrical dies of a Phan-Thien and Tanner fluid model. I. Steady state. <i>Physics of Fluids</i> , 2009, 21, .	1.6	12
30	Dynamics and motion of a gas bubble in a viscoplastic medium under acoustic excitation. <i>Journal of Fluid Mechanics</i> , 2019, 865, 381-413.	1.4	11
31	The Free (Open) Boundary Condition at inflow boundaries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012, 187-188, 16-31.	1.0	10
32	On the degree of wetting of a slit by a liquid film flowing along an inclined plane. <i>Journal of Fluid Mechanics</i> , 2017, 820, 5-41.	1.4	10
33	Viscoelastic film flows over an inclined substrate with sinusoidal topography. I. Steady state. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	10
34	Some experiences with the slip boundary condition in viscous and viscoelastic flows. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013, 198, 96-108.	1.0	8
35	Non-linear dynamics of a viscoelastic film subjected to a spatially periodic electric field. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015, 217, 1-13.	1.0	7
36	Viscoelastic film flows over an inclined substrate with sinusoidal topography. II. Linear stability analysis. <i>Physical Review Fluids</i> , 2019, 4, .	1.0	7

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37	Stability analysis of viscoelastic film flows over an inclined substrate with rectangular trenches. Journal of Fluid Mechanics, 2021, 915, .	1.4	4
38	Stability of slowly evaporating thin liquid films of binary mixtures. Physical Review Fluids, 2020, 5, .	1.0	4
39	Stability analysis of a Newtonian film flow over hydrophobic microtextured substrates. Physical Review Fluids, 2022, 7, .	1.0	4
40	Open-source finite volume solvers for multiphase (n-phase) flows involving either Newtonian or non-Newtonian complex fluids. Computers and Fluids, 2022, 245, 105590.	1.3	4
41	Surfactant enhanced spreading of liquid drops on solid surfaces. , 2015, , .		0