

George Karapetsas

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,242
citations

361045

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360668

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docs citations

41
times ranked

941
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Stability analysis of a Newtonian film flow over hydrophobic microtextured substrates. <i>Physical Review Fluids</i> , 2022, 7, . | 1.0 | 4 |
| 2 | Open-source finite volume solvers for multiphase (n-phase) flows involving either Newtonian or non-Newtonian complex fluids. <i>Computers and Fluids</i> , 2022, 245, 105590. | 1.3 | 4 |
| 3 | Spreading and retraction dynamics of sessile evaporating droplets comprising volatile binary mixtures. <i>Journal of Fluid Mechanics</i> , 2021, 907, . | 1.4 | 18 |
| 4 | Dynamics of hygroscopic aqueous solution droplets undergoing evaporation or vapour absorption. <i>Journal of Fluid Mechanics</i> , 2021, 912, . | 1.4 | 13 |
| 5 | Stability analysis of viscoelastic film flows over an inclined substrate with rectangular trenches. <i>Journal of Fluid Mechanics</i> , 2021, 915, . | 1.4 | 4 |
| 6 | Stability of slowly evaporating thin liquid films of binary mixtures. <i>Physical Review Fluids</i> , 2020, 5, . | 1.0 | 4 |
| 7 | 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 |
| 8 | 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 |
| 9 | Viscoelastic film flows over an inclined substrate with sinusoidal topography. I. Steady state. <i>Physical Review Fluids</i> , 2019, 4, . | 1.0 | 10 |
| 10 | Viscoelastic film flows over an inclined substrate with sinusoidal topography. II. Linear stability analysis. <i>Physical Review Fluids</i> , 2019, 4, . | 1.0 | 7 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Thermocapillary Droplet Actuation: Effect of Solid Structure and Wettability. <i>Langmuir</i> , 2017, 33, 10838-10850. | 1.6 | 38 |
| 15 | 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 |
| 16 | How asymmetric surfaces induce directional droplet motion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 511, 180-189. | 2.3 | 23 |
| 17 | Evaporation of Sessile Droplets Laden with Particles and Insoluble Surfactants. <i>Langmuir</i> , 2016, 32, 6871-6881. | 1.6 | 88 |
| 18 | Efficient modelling of droplet dynamics on complex surfaces. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 085101. | 0.7 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Surfactant enhanced spreading of liquid drops on solid surfaces. , 2015, , . | | 0 |
| 20 | Bubble rise dynamics in a viscoplastic material. Journal of Non-Newtonian Fluid Mechanics, 2015, 222, 217-226. | 1.0 | 51 |
| 21 | Non-linear dynamics of a viscoelastic film subjected to a spatially periodic electric field. Journal of Non-Newtonian Fluid Mechanics, 2015, 217, 1-13. | 1.0 | 7 |
| 22 | Non-isothermal bubble rise: non-monotonic dependence of surface tension on temperature. Journal of Fluid Mechanics, 2015, 763, 82-108. | 1.4 | 39 |
| 23 | On the origin of extrusion instabilities: Linear stability analysis of the viscoelastic die swell. Journal of Non-Newtonian Fluid Mechanics, 2015, 224, 61-77. | 1.0 | 32 |
| 24 | Numerical simulation of pressure-driven displacement of a viscoplastic material by a Newtonian fluid using the lattice Boltzmann method. European Journal of Mechanics, B/Fluids, 2015, 49, 197-207. | 1.2 | 27 |
| 25 | On phase change in Marangoni-driven flows and its effects on the hydrothermal-wave instabilities. Physics of Fluids, 2014, 26, . | 1.6 | 31 |
| 26 | Thermocapillary-Driven Motion of a Sessile Drop: Effect of Non-Monotonic Dependence of Surface Tension on Temperature. Langmuir, 2014, 30, 4310-4321. | 1.6 | 86 |
| 27 | The role of surfactants on the mechanism of the long-wave instability in liquid film flows. Journal of Fluid Mechanics, 2014, 741, 139-155. | 1.4 | 25 |
| 28 | On the stick-slip flow from slit and cylindrical dies of a Phan-Thien and Tanner fluid model. II. Linear stability analysis. Physics of Fluids, 2013, 25, 093105. | 1.6 | 18 |
| 29 | Some experiences with the slip boundary condition in viscous and viscoelastic flows. Journal of Non-Newtonian Fluid Mechanics, 2013, 198, 96-108. | 1.0 | 8 |
| 30 | The primary instability of falling films in the presence of soluble surfactants. Journal of Fluid Mechanics, 2013, 729, 123-150. | 1.4 | 30 |
| 31 | Linear and nonlinear stability of hydrothermal waves in planar liquid layers driven by thermocapillarity. Physics of Fluids, 2013, 25, . | 1.6 | 28 |
| 32 | Effect of Contact Line Dynamics on the Thermocapillary Motion of a Droplet on an Inclined Plate. Langmuir, 2013, 29, 8892-8906. | 1.6 | 70 |
| 33 | The Free (Open) Boundary Condition at inflow boundaries. Journal of Non-Newtonian Fluid Mechanics, 2012, 187-188, 16-31. | 1.0 | 10 |
| 34 | Convective Rolls and Hydrothermal Waves in Evaporating Sessile Drops. Langmuir, 2012, 28, 11433-11439. | 1.6 | 82 |
| 35 | On surfactant-enhanced spreading and superspreading of liquid drops on solid surfaces. Journal of Fluid Mechanics, 2011, 670, 5-37. | 1.4 | 85 |
| 36 | Surfactant-driven dynamics of liquid lenses. Physics of Fluids, 2011, 23, . | 1.6 | 44 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Steady extrusion of viscoelastic materials from an annular die. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 154, 136-152. | 1.0 | 29 |
| 40 | 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 |
| 41 | Transient squeeze flow of viscoplastic materials. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2006, 133, 35-56. | 1.0 | 48 |