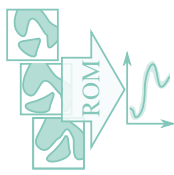
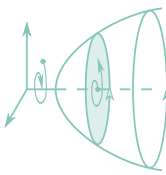


# LIST OF PUBLICATIONS

Francesco Romano

Department of Fluid Mechanics and Energetics, Arts et Métiers, Lille

[francesco.romano@ensam.eu](mailto:francesco.romano@ensam.eu)



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- B1 M. Muradoglu, F. Romanò, H. Fujioka, J. B. Grotberg, *Effects of surfactant on propagation and rupture of a liquid plug in a tube.*, J. Fluid Mech., **872** (2019) 407–437.
- B2 F. Romanò, H. Fujioka, M. Muradoglu, J. B. Grotberg, *Liquid plug formation in an airway closure model*, Phys. Rev. Fluids, **4** (2019) 093103.
- B3 Y. Hu, F. Romanò, J. B. Grotberg, *Effects of Surface Tension and Yield Stress on Mucus Plug Rupture: A Numerical Study*, J. Biomech. Eng., **142** (2020) 061007.
- B4 F. Romanò, V. Suresh, P. A. Galie, J. B. Grotberg, *Peristaltic flow in the lymphatic system*, Nature – Sci. Rep., **10** (2020), 21065.
- B5 F. Romanò, M. Muradoglu, H. Fujioka, J. B. Grotberg, *The effect of viscoelasticity in an airway closure model*, J. Fluid. Mech., **913** (2021), A31.
- B6 E. P. Beretta, F. Romanò, G. A. Sancini, J. B. Grotberg, G. F. Nieman, G. A. Miserocchi, *Pulmonary interstitial matrix and lung fluid balance from normal to the acutely injured lung*, Front. Physiol., **12** (2021), 781874.



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- B7** O. Erken, F. Romanò, J. B. Grotberg, M. Muradoglu, *Capillary instability of a two-layer annular film: An airway closure model*, J. Fluid Mech., **934** (2022), A7.
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- B10** F. Romanò, M. Muradoglu, H. Fujioka, J. B. Grotberg, *The effect of surfactant in an airway closure model*, Phys. Rev. Fluids, **7** (2022), 093103.
- B11** O. Erken, B. Fazla, D. Izbassarov, F. Romanò, J. B. Grotberg, M. Muradoglu, *Effects of elastoviscoplastic properties of mucus on airway closure in healthy and pathological conditions*, Phys. Rev. Fluids, **8** (2023), 053102.



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- B12** Y. Hu, F. Romanò, J. B. Grotberg, *Entropic lattice Boltzmann model for surface tension effects on liquid plug rupture in two-and three-dimensional channels*, Phys. Rev. Fluids, **8** (2023), 073603.
- B13** H. Viola, V. Vasani, K. Washington, J. Hoon Lee, C. Selva, A. Li, C. J. Llorente, Y. Murayama, J. B. Grotberg, F. Romanò, S. Takayama, *Liquid plug propagation in computercontrolled microfluidic airway-on-a-chip with semi-circular microchannels*, Lab on a Chip, **24** (2024), 197–209.
- B14** J. B. Grotberg, F. Romanò, *Computational pulmonary edema: A microvascular model of alveolar capillary and interstitial flow*, APL Bioengineering, **7** (2023), 036101.
- B15** B. Fazla, O. Erken, D. Izbassarov, F. Romanò, J. B. Grotberg, M. Muradoglu, *Effect of kinematic hardening of mucus polymers in an airway closure model*, **submitted** (2023).
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- P20** I. Barmak, F. Romanò, H. C. Kuhlmann, *Finite-size coherent particle structures in high-Prandtl-number liquid bridges*, Phys. Rev. Fluids, **6** (2021), 084301.
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- S3** M. Stojanović, F. Romanò, H. C. Kuhlmann, *Stability of thermocapillary flow in liquid bridges fully coupled to the gas phase*, J. Fluid Mech., **949** (2022), A5.
- S4** M. Stojanović, F. Romanò, H. C. Kuhlmann, *MaranStable: A linear stability solver for multiphase flows in canonical geometries*, SoftwareX, **23** (2023), 101405.
- S5** M. Stojanović, F. Romanò, H. C. Kuhlmann, *Instability of axisymmetric flow in thermocapillary liquid bridges: Kinetic and thermal energy budgets for two-phase flow with temperature-dependent material properties*, European J. Appl. Math., **35** (2024), 267–293.
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