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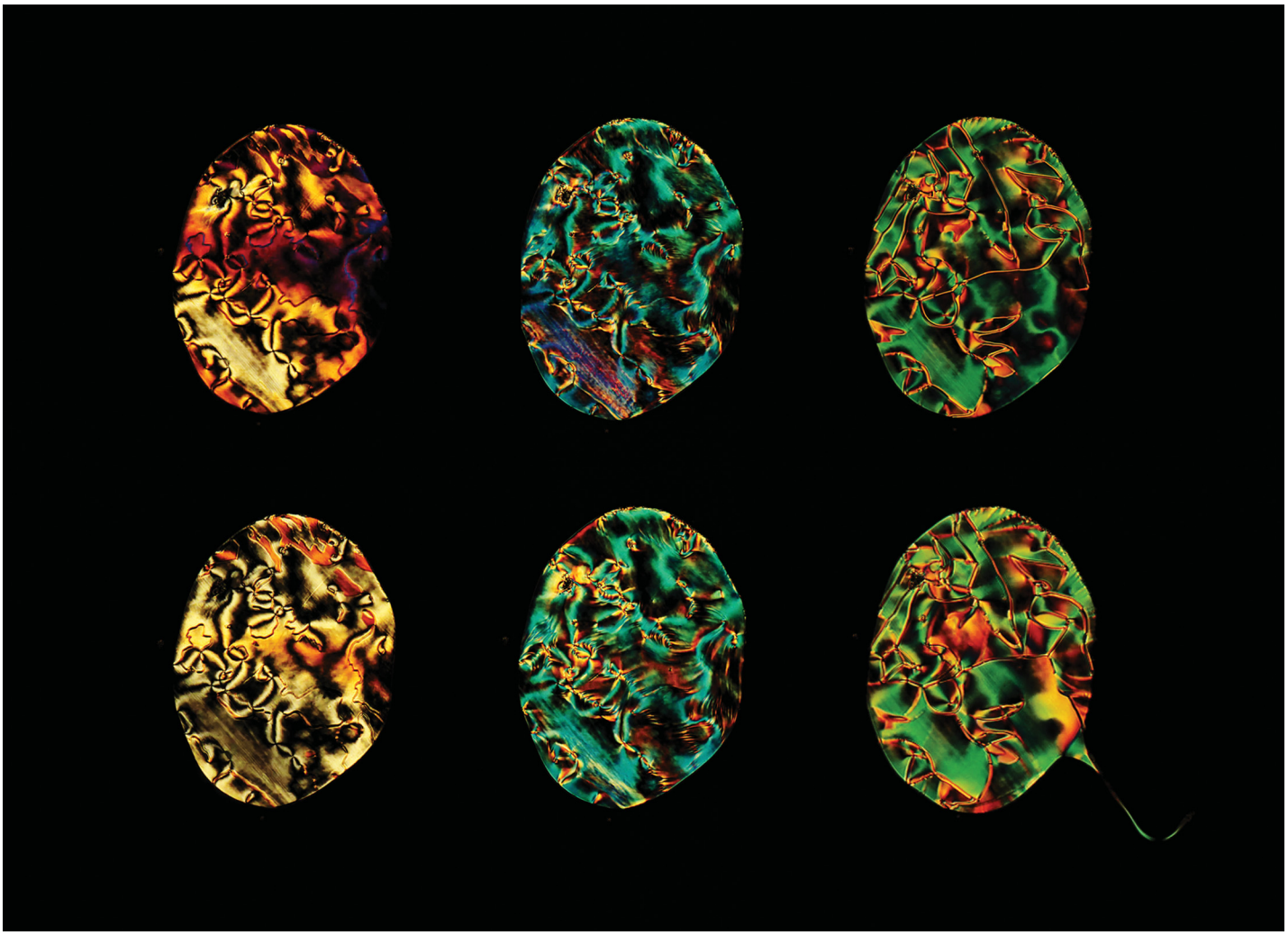

Showcasing research from Professor Lucchetti's laboratory, SIMAU Department, Polytechnic University of Marche, Italy.

Fluid jets and polar domains, on the relationship between electromechanical instability and topology in ferroelectric nematic liquid crystal droplets

In ferroelectric nematic (N_F) liquid crystals the polarization ***P*** is locally collinear to the optical axis ***n***, thus polarized optical microscopy observations acquire the new meaning of an exploration of the electrostatic ground state of this phase, which is achieved in terms of the spatial arrangement of ***P*** at the micron scale. The manuscript reports such topological study on N_F droplets confined between two solid ferroelectric substrates both in stationary conditions and during a jet-emission phase that takes place when the solid surfaces become sufficiently charged.

As featured in:

See Tommaso Bellini, Liana Lucchetti *et al.*, *Soft Matter*, 2024, **20**, 4878.

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