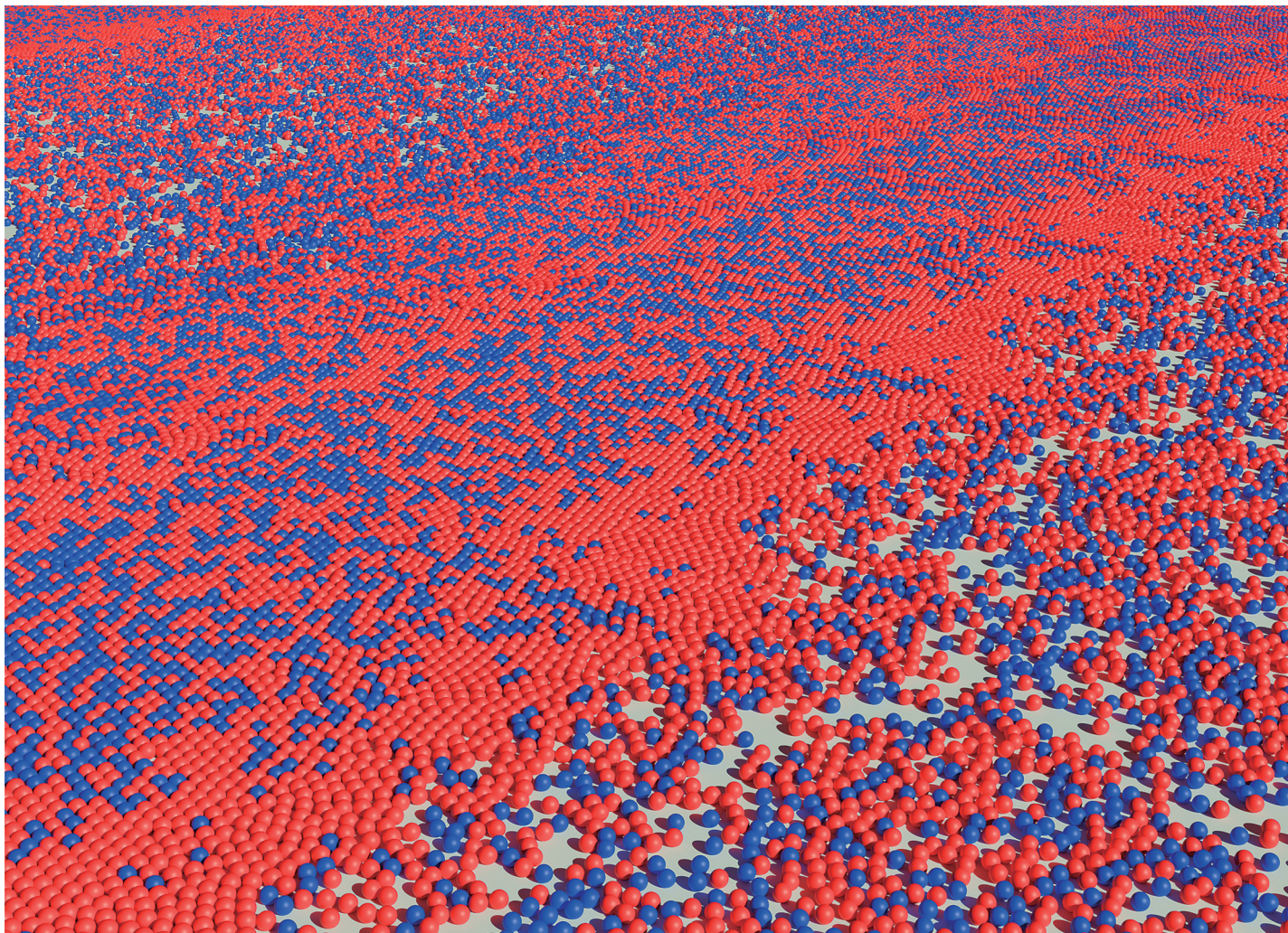




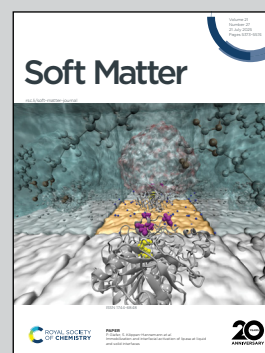
**Showcasing research from Professor Valeriani's laboratory,
Physics faculty, Universidad Complutense de Madrid,
Madrid, Spain.**

**Dynamics and rupture of doped motility induced phase
separation**

The image is an artistic representation of a Motility-Induced Phase Separation (MIPS) slab in a binary mixture of active (red) and passive (blue) particles under periodic boundary conditions. Unlike purely active systems, the introduction of a small number of passive particles breaks the symmetry of the MIPS band, producing a well-defined interface propagation, which is not merely a rigid shift or a source-sink effect, but rather a self-sustained combination of both.

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As featured in:



See Rodrigo Fernández-Quevedo
García, Chantal Valeriani *et al.*,
Soft Matter, 2025, **21**, 5413.