



Showcasing research from Dr. Yannick Hallez's team at the Laboratoire de Génie Chimique, University of Toulouse, France.

Microfluidic osmotic compression with *operando* meso-structure characterization using SAXS

*A microfluidic chip has been developed to perform osmotic compression and Small Angle X-ray Scattering on a colloidal dispersion sample concurrently. Fast compression rates due to the small drop volume allow determining equations of states within a few hours. Solvent and ion exchange through a semi-permeable membrane photopolymerized inside the chip ensure a precise control of the chemical potentials of all species. Image designed and illustrated by MCG Studio.*

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As featured in:



See Yannick Hallez *et al.*,  
*Lab Chip*, 2025, **25**, 2851.