



Marta Krasowska

Marta Krasowska is a Professor of Physical Chemistry and Academic Lead at the Future Industries Institute (FII), Adelaide University, where she co-leads the Surface Interactions and Soft Matter group. Her research sits at the intersection of colloid and interface science, encompassing emulsions and interfacial crystallisation of lipids, bubble- and droplet–solid interactions, interfacial hydrodynamics and wetting, and thin polymer and ionic liquid films. Across these areas, her work asks how molecular structure and interfacial organisation shape the behaviour of soft matter systems, from the molecular scale to the mesoscale.

To probe these interfaces, she implements a complementary suite of techniques, combining synchrotron methods (SAXS/WAXS, XPS, NEXAFS) and vibrational spectroscopy (FTIR, Raman) with AFM, interferometry, tensiometry, and zeta potential determination. This multi-technique (and multi-scale) approach allows her to connect interfacial composition and structure with the dynamic processes that control colloid stability, crystallisation, and adhesion in both fundamental and applied contexts, including mineral processing and food product development.