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Liquid Interface X-ray Scattering Program at ChemMatCARS, Sector 15, Advanced Photon Source

Since 2002, a state-of-the-art liquid interface scattering instrument has been operational at NSF's ChemMatCARS in Station 15-ID-C at Sector 15, Advanced Photon Source, Argonne National Laboratory, IL, USA. This instrument is equipped to perform the full suite of interfacial X-ray techniques, facilitating the comprehensive studies of liquid-vapor and liquid-liquid interfaces. Its applications span a diverse spectrum of chemical and materials interfacial phenomena, covering areas such as environmental science, biomolecular materials, life processes, self-assembly, directed assembly for tailored functionality, interfacial engineering, and chemical separations. A new liquid interface station 15-ID-E is set to be constructed in 2024, with a focus on advancing the exploration of supported biomembranes.

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Instrumentation and methods

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