

Bulk liquid electrochemical cell

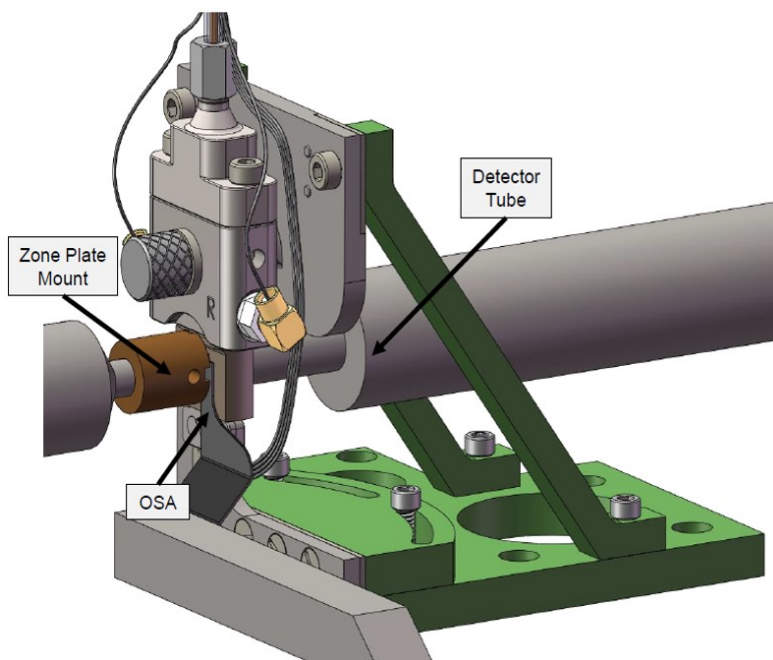
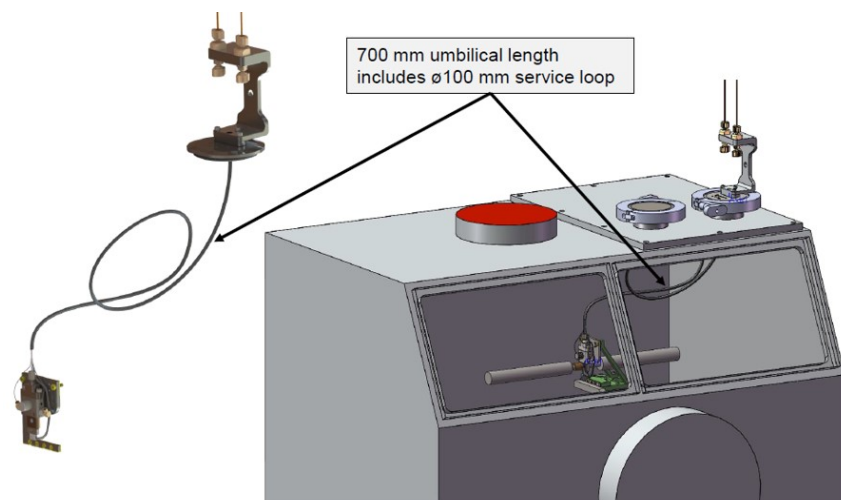
Beamline: Industrial Science

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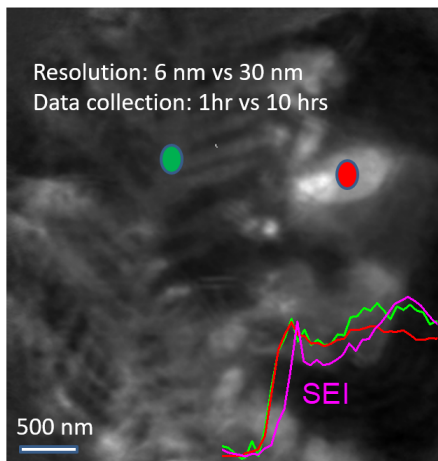
A 6-electrode device for real time in-situ studies of electrochemical processes under a continuous flow of electrolytes. The device was made using in-situ TEM technology, and designed to fit the SM standard sample holder.

Battery materials can be charge cycled while simultaneously acquiring soft x-ray absorption maps to track structure change. Other applications include electrochemistry, corrosion, electroplating, electrolysis, fuel cell materials, etc.

More information can be found in Lim et al., Science 353, 566-571 (2016).



Pinpointing chemical origins of dendrite formation in aqueous zinc ion batteries via in-situ and ptychography STXM



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