Contribution ID: **95** Type: **Talk**

High brightness MetalJet x-ray source for MOFs/COFs structure determinations

Tuesday, 15 March 2022 10:00 (20 minutes)

SC-XRD solutions for challenging applications like MOFs/COFs rely heavily on the Xray source brightness for fast and precise data collection. Traditional Xray tubes are limited in brightness by when the e-beam power density melts the anode. This limit is overcome by the liquid-metal-jet anode technology that enables 10x more photons on the sample compared to solid tubes. This contribution reviews the evolvement of the MetalJet technology and will show some recent MOF/COF user examples.

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Session Classification: Advanced Structure Analysis I

Track Classification: Main conference: Advances in Methods, Instrumentation and Data Analysis