# Special Issue

# Advances in X-Ray Coherent Imaging Technology

### Message from the Guest Editor

X-ray coherent imaging technology, a state-of-the-art methodology, harnesses coherent X-ray beams in order to offer exceptional resolution and contrast, unveiling the intricate internal structures of samples with unparalleled detail. This cutting-edge technology is widely applicable in diverse fields such as materials science, biology, medical diagnostics, non-destructive testing, and more, catalyzing breakthroughs in research, science, and industry. This upcoming Special Issue delves into the forefront of X-ray coherent imaging, shedding light on pioneering developments and methodologies that are reshaping the field, and will serve as a platform for researchers and experts to share insights and discoveries. Potential topics include, but are not limited to, the following:

- Development of advanced X-ray sources for coherent imaging.
- Instrumentation development for efficient
- Novel techniques enhancing data acquisition and processing.
- Innovations in data analysis and image reconstruction.
- Multi-modal imaging approaches.
- Applications of X-ray coherent imaging techniques.
- Discussions on challenges and future directions.

### Guest Editor

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### Deadline for manuscript submissions

30 January 2026

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