



Contribution ID: 94

Type: Poster

Multi-probe Sources: Neutron and Synchrotron Light Sources Planned in Suzhou and Their Synergistic Applications in Materials Science

This presentation explores the development of a groundbreaking multi-probe research facility planned for Suzhou, China. This facility will house both a powerful neutron source and a state-of-the-art synchrotron light source, offering researchers a unique and versatile suite of analytical tools. The presentation will delve into the scientific capabilities of each source, highlighting their complementary nature in the materials field.

Neutrons, with their unique ability to probe material structures at the atomic level, are ideal for studying magnetism, residual stress, and dynamics within materials. Synchrotron radiation, on the other hand, provides intense beams of X-rays with tunable wavelengths, enabling researchers to investigate the electronic structure, chemical composition, and morphology of materials across different length scales. The presentation will discuss the planned beamlines and experimental stations at the Suzhou facility, showcasing how researchers can leverage the combined strengths of neutrons and synchrotron radiation to tackle complex scientific problems across diverse fields such as materials science.

Please select the related topic from the list below

Instrumentation and methods

Primary author: ZHOU, Bowen

Co-authors: LONG, Jidong; ZHOU, Kaishang; YANG, Tieying; WANG, dongniu (Suzhou Lab); CHEN, jianhui

Presenter: ZHOU, Bowen

Session Classification: Poster session