



Synchrotron Imaging and Diffraction Characterization of Advanced Materials

Guest Editors:

Prof. Kai Chen

Center for Advancing Materials
Performance from the Nanoscale
(CAMP-Nano), State Key
Laboratory for Mechanical
Behavior of Materials, Xi'an
Jiaotong University, Xi'an 710049,
China

Dr. Nobumichi Tamura

Lawrence Berkeley National
Laboratory, 1 Cyclotron Road,
Berkeley, CA 94720, USA

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Message from the Guest Editors

Dear Colleagues,

As new materials with novel properties are developed through techniques such as 3D printing, their characterization with current methods become ever more challenging. Many of these properties depend on microstructural tuning at the micron, nano, and atomic scale. The need for higher spatial resolution, as well as of in operando measurements has led in recent years to the development of new and drastic improvements of synchrotron diffraction and imaging techniques. This issue is aimed at giving an overview of current state-of-the-art synchrotron characterization techniques used to study these materials, such as Bragg coherent diffraction imaging, ptychography, Laue nanodiffraction, and diffraction contrast tomography.

Prof. Kai Chen
Dr. Nobumichi Tamura
Guest Editors





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Editor-in-Chief

Prof. Dr. Klaus-Dieter Liss

School of Mechanical, Materials,
Mechatronic and Biomedical
Engineering, University of
Wollongong, Wollongong 2522,
Australia

Message from the Editor-in-Chief

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Quantum Beam Science Editorial
Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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