

X-ray grating-based imaging of food - from synchrotrons to production lines

In the last decade, X-ray imaging using a grating-interferometer (XGI) has evolved from synchrotron research to commercially available lab equipment. Besides the conventional attenuation-based contrast, XGI offers the complementary phase-contrast and dark-field modalities. As these are especially sensitive towards soft-tissue samples, applications within food science have long received interest particularly using the X-ray dark-field modality. As the latter is sensitive to X-ray scattering in the USAXS regime, structures on the micron-scale can be investigated. This makes it applicable for many food science studies.

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