

# X-Ray Microscope Images at Water Window Regions

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## Abstract

A high resolution imaging X-ray microscope station has been operating at Ritsumeikan SR Center since 1996. Its optical configuration allows a continuous wavelength change throughout water window region, 2.2–4.3nm. The present paper describes results observed with the high-performance X-ray microscope, and compared the images taken at two different wavelengths, 2.4nm and 3.2nm. Its achieved resolution with each wavelength was below 50nm. Latex spheres of 0.23 $\mu$ m diameter and 0.1 $\mu$ m inner fine structures of diatom could be clearly resolved.

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