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The benefits of Cu k-beta radiation for the single crystal X-ray structure determination of crystalline sponges

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The uncommonly used wavelength Cu K-beta showed significant improvement for the structural models of the metal-organic framework subgroup called ‘sponge crystals’. The advantages towards the commonly used wavelength Cu K-alpha are a shorter wavelength and thus higher resolution with less elemental absorption and thus less background or sample decay. Cu K-beta also inherits no high-angle peak splitting. In this way, better crystallographic models can be obtained for the crystalline sponge method.

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