Boron K-Edge X-Ray Absorption and Emission Spectroscopic Studies in Sodium Borate Glasses

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Abstract

B K-edge XANES measurements in the system of Na$_2$O–B$_2$O$_3$ glasses and some borate crystals were performed using synchrotron radiation and the proportion of B$^4$ was estimated. Glasses with high contents of Na$_2$O and Na$_2$B$_4$O$_7$ crystal were also investigated by the excitation energy-dependent X-ray emission spectroscopy (XES).

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