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Title: Quantifying the Effects of Surface Quality on Texture Measurements of Tantalum

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Highlights

Effects of surface quality on texture measurement of tantalum are investigated in a quantitative way.

Analysis is based on the combination of X-ray diffraction (XRD) and electron back-scattering diffraction (EBSD) techniques.

Proper sample preparation method for texture measurement of tantalum is defined.

Suggestion for macrottexture measurements of metals with high linear absorption coefficient is provided.

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