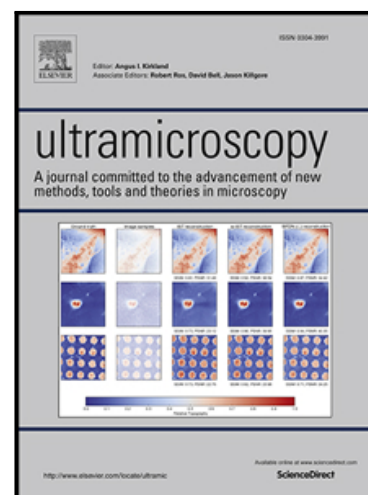


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Stable Contrast Mode on TiO₂(110) Surface with Metal-Coated Tips Using AFM

Yan Jun Li , Huanfei Wen , Eiji Arima , Yukinori Kinoshita ,
Hikaru Nomura , Zongmin Ma , Lili Kou , Yoshihiro Tsukuda ,
Yoshitaka Naitoh , Yasuhiro Sugawara , R. Xu , Z.H. Cheng

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Highlights

- A method for obtaining a stable contrast mode on a $\text{TiO}_2(110)$ surface is investigated.
- A stable contrast rate of ~95% is obtained with a W-coated Si cantilever.
- A stable tip apex is critical for elucidating the real geometry of a surface.
- The frequency shift and tunnelling current can be simultaneously measured.
- The proposed method can be used to investigate the catalytic activity.

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