


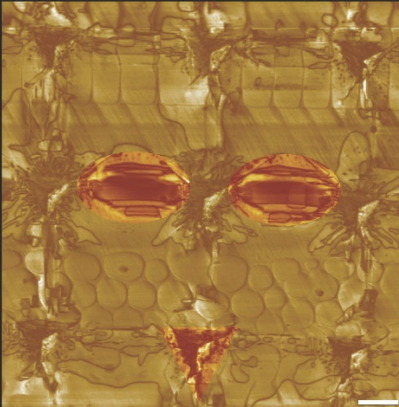
# 2020 Ceramographic Competition Awardees

## Scanning Probe Awardee:

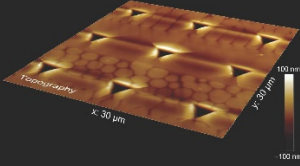
**Nanoindentation reveals the “real face” of BaTiO<sub>3</sub>**  TECHNISCHE UNIVERSITÄT DARMSTADT

Fangping Zhuo, Xufei Fang, Marion Höfling, Jurij Koruza, and Jürgen Rödel  
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Piezoresponse force microscopy (PFM) amplitude image showing the face-like responses of the nanoindentation arrays. The scale bar is 3  $\mu\text{m}$ .



Atomic force microscopy (AFM) image of a [001] BaTiO<sub>3</sub> single crystal after performing 3×3 nanoindentation arrays (Berkovich indenter, max. force 50 mN).



**Category:**  
**Scanning Probe Microscopy**

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*Fangping Zhuo*

**First Place:**

***Nanoindentation***

Fangping Zhuo, Xufei Fang, Marion Höfling,  
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