

## Poster presentations

No.	Interface and Grain Boundaries
001	STEM study of Au nano-particles supported on metal oxide <i>T. Akita, S. Tanaka, K. Tanaka, M. Haruta, M. Kohyama</i>
002	STEM imaging of Au nanoparticles on TiO <sub>2</sub> surface <i>N. Shibata, A. Goto, K. Matsunaga, T. Mizoguchi, S.D. Findlay, T. Yamamoto, Y. Ikuhara</i>
003	Gold nanoparticles on TiO <sub>2</sub> (110): Exploring the imaging capabilities of aberration corrected scanning transmission electron microscopes through simulation <i>S.D. Findlay, N. Shibata, Y. Ikuhara</i>
004	Atomic structure and segregation of zinc oxide [0001] tilt grain boundaries <i>Y. Sato, T. Mizoguchi, J.P. Buba, N. Shibata, T. Yamamoto, T. Hirayama, Y. Ikuhara</i>
005	Atomic structure and diffusion behavior in SrTiO <sub>3</sub> based superlattices <i>T. Mizoguchi, H. Ohta, Y. Mune, Y. Nakanishi, K. Koumoto, Y. Ikuhara</i>
006	Atomic structures of [111] low-angle tilt grain boundaries in zirconia bicrystals <i>Y. Nohara, E. Tochigi, N. Shibata, T. Mizoguchi, T. Yamamoto, Y. Ikuhara</i>
007	Quantitative electron tomography of size-controlled metallic nanodots on sintered titania photocatalysts <i>K. Yoshida, S. Sueda, T. Hirayama, S. Tanemura, T. Torimoto, N. Tanaka</i>
008	Ca ordering and microstructure evolution of Ca <sub>0.33</sub> CoO <sub>2</sub> thin film investigated by HAADF-STEM <i>R. Huang, K. Sugiura, T. Mizoguchi, T. Saito, H. Ohta, K. Koumoto, T. Hirayama, Y. Ikuhara</i>
009	STEM observation and carrier transport properties of layered Ca <sub>x</sub> CoO <sub>2</sub> Epitaxial Film <i>K. Sugiura, R. Huang, T. Saito, Y. Ikuhara, Y. Ishida, K. Nomura, H. Hosono, H. Ohta, K. Koumoto</i>
010	Cs-corrected TEM/STEM analysis of La <sub>2</sub> O <sub>3</sub> /Si (001) <i>S. Inamoto, J. Yamasaki, E. Okunishi, K. Kakushima, H. Iwai, N. Tanaka</i>
011	Atomic structure and transport properties in $\alpha$ -Al <sub>2</sub> O <sub>3</sub> [0001] symmetric grain boundaries <i>T. Nakagawa, I. Sakaguchi, N. Shibata, T. Mizoguchi, T. Yamamoto, N. Ohashi, H. Haneda, Y. Ikuhara</i>
012	Oxygen permeability and morphological stability of alumina ceramics under O <sub>2</sub> potential gradients at ultra-high temperatures <i>M. Wada, T. Matsudaira, S. Kitaoka</i>
013	Microstructures of diluted Cu(Ti) alloy interconnects with self-formation of thin barrier metal layers <i>S. Tsukimoto, T. Onishi, K. Ito, M. Murakami</i>
014	Nanostructural characterization of Gd <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /MgO multilayer formed by ion-beam-assisted deposition <i>T. Kato, S. Hanyu, K. Kakimoto, H. Fuji, Y. Iijima, T. Saitoh, Y. Sasaki, T. Hirayama</i>
015	Microstructural characterization of thermal oxide scales formed on hexagonal silicon carbide <i>B. Chayasombat, T. Kato, Y. Sasaki, T. Hirayama, K. Sasaki, K. Kuroda</i>

- 016 HRTEM and STEM observation for surface atomic structures of SrTiO<sub>3</sub> substrate  
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- 017 TEM observations of aluminum/ceramics interfaces  
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- 018 Rare-earth segregation at  $\Sigma$ 13 grain boundary in alumina  
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- 019 Investigation of the atomic structures of Si<sub>3</sub>N<sub>4</sub>/CeO<sub>2- $\delta$</sub>  interfaces using atomic resolution Z-contrast imaging and EELS combined with first-principles methods  
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- 022 Spin-polarized scanning electron microscopy for analysis of magnetic devices  
*T. Kohashi, K. Motai*
- 023 Direct observation of magnetic fields generated from a carbon micro-solenoid  
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*K. Mitsuishi, K. Iakoubovskii, M. Takeguchi, M. Shimojo, A. Hashimoto, K. Furuya*
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*J. Yamasaki, H. Tamaki, T. Kawai, Y. Kondo, N. Tanaka*
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