



IUMRS-ICEM 2018

AUGUST 19(SUN.) - 24(FRI.), 2018 / DAEJEON, KOREA

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|----------------------|-----------------------------------|---------------------|--------------|
| Session Title | Ferro/Piezo IV | Session Code | Tu-G1 |
| Date and Time | 2018-08-21 / 10:30 - 12:30 | | |
| Place | Room G | | |
| Session Chair | TBA | | |

Tu-G1-1

10:30 - 11:00

[Invited] Nanoscale Linear Permittivity Imaging based on Scanning Nonlinear Dielectric Microscopy

Yoshiomi Hiranaga and Yasuo Cho
Tohoku Univ., Japan

Tu-G1-2

11:00 - 11:30

[Invited] Piezoresponse Force Microscopy of Emergent Piezoelectric Materials

Andrei Kholkin
Univ. of Aveiro, Portugal

Tu-G1-3

11:30 - 12:00

[Invited] Science And Technology of Interface-Engineered High-K Dielectric / High Piezoelectricity Multifunctional Nanolaminate-based Oxides / Ultrananocrystalline Diamond Films for New Generation Super-Capacitors, CMOS and MEMS/NEMS Devices

Orlando Auciello¹ and Geunhee Lee²
¹Univ. of Texas-Dallas, USA, ²CVE Technology, USA

Tu-G1-4

12:00 - 12:15

Suppression of Leakage Current of SrTiO₃ as Ultra-High-K Dielectrics using Al Co-Doping Process

Jiye Baek, Minhwan Go, Sang Yeon Lee, Seungik Han, and Hyungtak Seo
Ajou Univ., Korea

Tu-G1-5

12:15 - 12:30

Functionalization of Wide Band Gap Dielectric Oxides: A Light Element Doping Approach

Daesung Park^{1,2}, Akash Bhatnagar^{1,2}, Haiyuan Wang³, Gregory J. Rees⁴, and Diana Rata²
¹Zentrum für Innovationskompetenz SiLi-nano®, Germany, ²Martin-Luther-Univ. Halle-Wittenberg, Germany, ³Fritz-Haber-Inst. der Max-Planck-Gesellschaft, Germany, ⁴Univ. of Warwick, UK