

7th IEEE Electron Devices Technology and Manufacturing (EDTM) Conference 2023

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10C. Materials for Ferroelectric and Electronic Devices	
Session Date:	March 8(Wed.), 2023
Session Time:	13:30-14:50
Session Room:	Room C (#307 a)
Session Chair:	Dr. Jinseong Heo (Samsung Advanced Institute of Technology)

[10C-1] [Invited] 13:30-13:55

Hafnia-Based Ferroelectric Devices for Lower Power Memory and AI Applications

Shinichi Takagi, Kasidit Toprasertpong, Eishin Nako, Mitsuru Takenaka and Ryosho Nakane *The University of Tokyo*

[10C-2] [Invited] 13:55-14:20

Wurtzite-Type Ferroelectrics for Microelectronic Devices: Scalability and Integration to Silicon Based Ferroelectric FETs

Simon Fichtner^{1,2}, Georg Schönweger^{1,2}, Frank Dietz¹, Henning Hanssen¹, Heiko Züge¹, TomNiklas Kreutzer¹, Fabian Lofink², Hermann Kohlstedt², Holger Kapels^{1,2} and Michael Mensing¹

IFraunhofer ISIT, **2Kiel University

[10C-3] 14:20-14:35

Laser Assisted Ge Film Crystallization on MgO Substrates

Jongyeon Baek¹, Seung-Hwan Kim², Heejae Jeong³, Manh-Cuong Nguyen¹, Daeyoon Baek², Seunghun Baik³, An Hoang-Thuy Nguyen¹, Jong-Hwa Baek¹, Anh-Duy Nguyen¹, Hyung-Jun Kim^{2,4}, Hyuk-Jun Kwon³ and Rino Choi¹

¹Inha University, ²Korea Institute of Science and Technology, ³Daegu Gyeongbuk Institute of Science and Technology, ⁴KIST School, University of Science and Technology

[10C-4] 14:35-14:50

Tuning Indirect-to-Direct Bandgap of lonsdaleite Si_{0.5}Ge_{0.5} Alloy via Compressive Strain for Optical Gain

Rishikanta Mayengbam, Subhasis Das, Chuan Seng Tan and Weijun Fan *Nanyang Technological University*