# [WeA1] Ultra-Wide Bandgap Gallium Oxide: Growth and Devices

**Date / Time** May 25 (Wed.), 2022 / 10:00-12:00

Place Convention Hall A

Session Chair Ho-Young Cha (Hongik University, Korea)

### [WeA1-1] Invited Talk

Online 10:00-10:30

## β-Ga<sub>2</sub>O<sub>3</sub>: Growth, Doping, and Device Design

A. Mauze, T. Itoh, E. Farzana, Y. Zhang, J. Speck *University of California, USA* 

## [WeA1-2] Invited Talk

Online 10:30-11:00

# NiO/Ga<sub>2</sub>O<sub>3</sub> p-n Heterojunction Based Bipolar Devices

Jiandong Ye, Hehe Gong, Feng Zhou, Hai Lu, Fangfang Ren, Shulin Gu, Rong Zhang Nanjing University, China

#### [WeA1-3] Oral

Online 11:00-11:20

# Heteroepitaxial Growth of (AlGa)<sub>2</sub>O<sub>3</sub> Thin Films on Sapphire Substrates by Plasma-Assisted Pulsed Laser Deposition

Zewei Chen<sup>1</sup>, Makoto Arita<sup>2</sup>, Katsuhiko Saito<sup>1</sup>, Tooru Tanaka<sup>1</sup>, Qixin Guo<sup>1</sup> Saga University, Japan, <sup>2</sup>Kyushu University, Japan

#### [WeA1-4] Oral

Offline 11:20-11:40

# Enhancement Mode β-(Al<sub>0.19</sub>Ga<sub>0.81</sub>)<sub>2</sub>O<sub>3</sub>/Ga<sub>2</sub>O<sub>3</sub> HFETs with Superlattice Back-Barrier: A TCAD Modeling and Comprehensive Investigation

Gokhan Atmaca, Ho-Young Cha Hongik University, Korea

## [WeA1-5] Oral

Online 11:40-12:00

## Flexible Ga<sub>2</sub>O<sub>3</sub> Electronics: From Vdw Epitaxy to Membrane Exfoliation

Yi Lu, Shibin Krishna, Che-Hao Liao, Alaa Almushaikeh, Xiao Tang, Xiaohang Li King Abdullah University of Science and Technology, Saudi Arabia