



# ICMOVPE XXII

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## **Prof. Ryota Akaike**

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Ryota Akaike received his Ph.D in Engineering from the Department of Electronics, Graduate School of Engineering, Kyoto University, Kyoto, Japan, in 2023. He researched on MOVPE growth, structural, optical, and electrical characterization of semipolar AlGaIn, and fabrication of semipolar UVC-LEDs.

After graduation, he joined Mie University and is currently an assistant professor. He has developed high-quality semi- and non-polar AlN templates using sputtering and high-temperature face-to-face annealing, and succeeded in MOVPE growth of semi- and non-polar AlGaIn with smooth surfaces. He has also improved the external quantum efficiencies of far-UVC LEDs by the use of double-heterostructure with thick (>several 10 nm) light-emitting layer.

He currently focuses on the fabrication of high-quality AlN templates, epitaxial growth of AlGaIn-based semiconductor, and their applications on DUV light-emitting devices and electronic devices.