



Mori Yusuke



**Material Innovation Area** 

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In cutting-edge technology, the evolution of hardware as well as software brings the innovation. The ultimate hardware technology is the "crystal", the only one that can control electrons and light. Yusuke Mori Lab, is leading the world in researching "crystals". With the arrival of smart society by the Internet of Things (IoT). All and 5G will be the foundations. Yusuke Mori Lab, manufactures crystals that are indispensable for the realization of Al and crystals that accelerate 5G. We are also conducting research on linking meteorites with urethral stones and drug discovery by investigating crystals.

Growth of large-diameter and high-quality GaN wafers by the Na-flux method Click



**d** 2-inch GaN wafer



GaN crystal growth equipment for high-temperature and high-pressure condition

## Fabrication of high-quality and low-cost GaN wafers by Oxide Vapor Phase Epitaxy



OVPE growth reactor GaN crystal grown by OVPE



Click

Devices fabricated on the 2-inch OVPE-GaN wafer

## Nonlinear optical crystal crystals for UV laser Click



Furnace for CLBO crystal growth



**CLBO** crystal