
Symposium (Oral) | Symposium | III-V semiconductor growth technology for innovative devices

[8a-A203-1~5]III-V semiconductor growth technology for innovative devices

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△：奨励賞エントリー

▲：英語発表

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9:00 AM - 9:30 AM

[8a-A203-1]Advances in quantum dot photonics

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Keywords:quantum dot, semiconductor laser

Quantum dot (QD) lasers are the ultimate lasers with the features of both solid state lasers and semiconductor lasers. Although the QD lasers have been developed as a communication laser so far, new applications including silicon photonics and laser manufacturing processing will be developed in the future. In addition, the QDs are important nanostructures for realizing quantum light sources such as single photon sources. In this presentation, we discuss prospects of QD photonics and challenging issues of crystal growth technologies for the QDs.