



Contribution ID: 516

Type: **Talk (preferred)**

Integration of black phosphorus photoconductors with lithium niobate on insulator photonics

Wednesday 14 December 2022 14:45 (15 minutes)

For the first time, we integrate two-dimensional black phosphorus photoconductors onto waveguides fabricated on the emerging lithium niobate-on-insulator platform, and demonstrate efficient on-chip detection at telecommunication wavelengths.

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Session Classification: Conference on Optoelectronic and Microelectronic Materials and Devices

Track Classification: COMMAD: COMMAD: Photonic integrated circuits, semiconductor lasers, LEDs, photodetectors, and modulators