



WEBINARS

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Si/SiN-Integrated Photonics for Lidar, Quantum, and Sensing

Wednesday, November 17, 2021 10:00 AM - 11:00 AM EST

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Presented by



.: About This Webinar

The integrated photonics market is a fast-growing domain whose main drivers are the internet and data centers. Photonics-based transceivers are the backbones of today's internet connectivity technology and will be critical enablers of next-generation, quantum-based communication and computation.

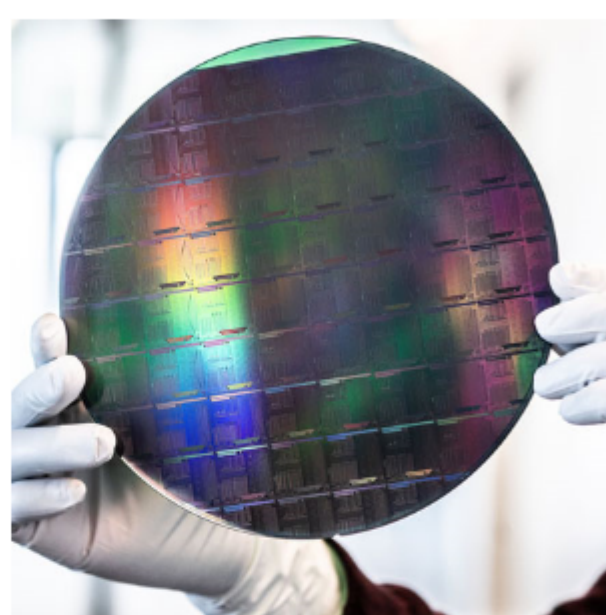
Amin Abbasi, business development manager at imec, presents recent progress on using integrated photonics for emerging applications such as on-chip lidar, quantum computing, and sensing. He also shows why photonic integrated circuit (PIC)-based solutions add value to final products and contribute to high integration capacity, compactness, and scalability.

Imec has developed 200- and 300-mm wafer-size photonic platforms based on silicon (Si) and silicon nitride (SiN) waveguide technologies and is using these platforms to design and commercialize state-of-the-art processing and devices. Imec has also begun to leverage these developments to provide mature technology to new, innovative application domains where integrated photonics can yield vast improvements.

Related to the characteristics of each platform, Abbasi covers the most recent progress concerning:

- Fabricating photonic building blocks (such as waveguides, interface couplers, and passive and active modules — photodetectors and modulators).
- Data and measurement results, including propagation loss value at different wavelengths.

Pictured: An example of a photonic platform wafer developed at imec. Courtesy of imec.



Who should attend:

Business development professionals, R&D scientists and managers, and engineering, design, and QC specialists who build and integrate components for sensing, quantum computing, lidar, and integrated photonics. Platform materials in focus for this event are silicon (Si) and silicon nitride (SiN).

About the presenter:

Amin Abbasi, Ph.D., is a business development manager at imec. He received his bachelor's and master's degrees in applied physics, with a specialization in lasers, from the University of Tabriz in Iran in 2009. In 2016, he received his doctorate in ultrahigh-speed, directly modulated distributed feedback (DFB) lasers at Ghent University. Abbasi continued his research at Ghent, in collaboration with imec, on 100-Gbit/s single-channel electroabsorption (EAM) modulators until 2017. After that, he joined Antwerp Space — part of OHB SE — as photonic team leader on microwave photonics for satellite communications. At Antwerp Space, he contributed to various development projects for the space segment, such as optical beamforming (OBF) for synthetic-aperture radar (SAR) and Q-band frequency converter and receiver development for free-space communications.

He joined imec in September 2020 as a business development manager, focusing at that time on imec's Si/SiN 200- and 300-mm photonic platforms for sensing, communications, and quantum applications. Currently, Abbasi's specialization at imec is in photonics integrated circuits (using Si/SiN) for optical switching and OBF for lidar and microwave photonic applications. Abbasi has co-authored more than 50 peer-reviewed publications.

About imec:

Imec conducts world-leading research in nanoelectronics and creates paradigm-shifting innovations in application domains such as health care, smart cities and mobility, logistics and manufacturing, and energy. A combination of broadly acclaimed leadership in microchip technology and profound software and information communications technology (ICT) expertise is what makes imec unique.

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- Expanding Quantum Frontiers with Superconducting Single-Photon Detectors

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