



Integrated Lasers on Silicon

Charles Cornet, Yoan Léger, Cédric Robert

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Integrated Lasers on Silicon provides a comprehensive overview of the state-of-the-art use of lasers on silicon for photonic integration. The authors demonstrate the need for efficient laser sources on silicon, motivated by the development of on-board/on-chip optical interconnects and the different integration schemes available. The authors include detailed descriptions of Group IV-based lasers, followed by a presentation of the results obtained through the bonding approach (hybrid III-V lasers). The monolithic integration of III-V semiconductor lasers are explored, concluding with a discussion of the different kinds of cavity geometries benchmarked with respect to their potential integration on silicon in an industrial environment.

- Features a clear description of the advantages, drawbacks, and challenges of laser integration on silicon
- Serves as a staple reference in the general field of silicon photonics
- Focuses on the promising developments of hybrid and monolithic III-V lasers on silicon, previously unreviewed
- Discusses the different kinds of cavity geometries benchmarked with respect to their potential integration on silicon in an industrial environment

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