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Laurent Vivien received the Ph.D. degree in nonlinear optical properties of carbon nanotubes from the Polytechnique School, Palaiseau, France, in 2001. Between 2001 and 2003, he was with the Institute of Fundamental Electronics (IEF), Orsay, France, to develop single-mode and polarization-insensitive structures in SOI waveguides and the fiber coupling for optical telecommunication applications. Since 2003, he has been with the Centre National de la Recherche Scientifique, Institute of Fundamental Electronics, University of Paris-Sud, Orsay, France. His research interests include silicon-based photonics from the passive structures including slot waveguides, optical couplers, photonic crystals, polarization rotators, etc., to optoelectronic devices including optical modulators, Ge on Si photodetectors, Ge/SiGe quantum well structures, strained silicon, carbon nanotubes based optoelectronic devices, etc. Since 2006, he has been the In-Charge of the Silicon Photonics Group at IEF.

He is currently involved in several ANR and European projects as a Coordinator or WP leader. He has coauthored more than 200 peer-reviewed journal and conferences publications, and holds seven patents. He also presented his work in more than 200 international conferences and contributed to several books.