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Since joining Research Laboratories, Nippon Telephone and Telegraph (NTT) Tokyo Japan 1975, he was engaged in research on defects in Si and III–V materials and devices. Since 1998, he was with the Microphotonics Center, Materials Science and Engineering, Massachusetts Institute of Technology (MIT), conducting research on Si photonics. He focused on Ge photodetector and modulator on Si CMOS platform. He moved back to Japan 2004 to accept professorship at the University of Tokyo, managing his Microphotonics laboratory for Si CMOS Photonics research. Since 2005 he has served numerous government research projects such as “Creative Scientific Research on Si CMOS Photonics” sponsored by MEXT, “Si Photonics research centers in US, EU, and Japan” by JSPS, and “Photonics and Electronics Convergence on Si Platform” by JSPS. Currently he is interested in optical data processing for optical computing, and next generation of Fiber to the Home, and the device research for these future applications.

He has authored and coauthored more than 100 refereed journal papers and have edited 13 books. As government services, he was the chair of Si Photonics of JEITA, and that of Institute of Electrical, Information, and Communication Engineers (IEICE) in Japan, Board of Directors of materials research society (MRS), a co-chair of 4<sup>th</sup> international conference on Group IV Photonics (IEEE), and an organizer of SiGe Symposium at Electrochemical Society (ECS). He was an associate editor of the Japanese Journal of Applied Physics and an associate editor of the IEEE/TMS, and Journal of Electronic Materials. He is a board member of Japan Society of Applied Physics. He is a fellow of Japan Society of Applied Physics. For more information, visit <http://www.microphotonics.material.t.u-tokyo.ac.jp>

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