

## Daoxin Dai

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### Biography

*Daoxin Dai* received the B. Eng. degree from the Department of Optical Engineering of Zhejiang University in 2000 and obtained his Ph. D. degree from the Royal Institute of Technology (KTH), Sweden, in 2005. He joined Zhejiang University as an assistant professor in 2005 and became an associate professor in 2007, a full professor in 2011. His current research interest is silicon integrated nanophotonics. He has published more than 150 refereed international journals papers (including 11 invited review papers). His papers have been cited by >4770 times (Google Scholar), and he is one of Most Cited Chinese Researchers in 2014, 2015, and 2016 (from Elsevier's report). Dr. Dai has been invited to give ~50 invited talks and served as the TPC member or session chair for many international conferences (including OFC 2013~2015). He is serving as the Associate Editor of the Journals of "IEEE Photonics Technology Letters", "Optical and Quantum Electronics" and "Photonics Research".

### Presentation Title: Asymmetric evanescent coupling systems on silicon

In recently years, asymmetric evanescent coupling systems have become more and more important as silicon photonics is developing, because of the ultra-high index contrast and an ultra-small cross section of silicon nanophotonic waveguides. Asymmetric evanescent coupling systems on silicon have been developed successfully to enable ultra-small high-performance polarization-handling devices, special power splitting, as well as multi-channel mode conversion/(de)multiplexing. This paper will give a review for the recent progresses of asymmetric evanescent coupling systems on silicon.