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Steven J. Koester is the Russell J. Penrose Professor of Nanotechnology at the University of Minnesota, and the Director of the Minnesota Nano Center. He received the Ph.D. in 1995 from the University of California, Santa Barbara. From 1997 to 2010, he was a research staff member at the IBM T. J. Watson Research Center and performed research on a wide variety of electronic and optoelectronic devices, with an emphasis on those utilizing the Si/SiGe material system. From 2006 to 2010 he served as manager of Exploratory Technology at IBM Research where his team investigated advanced device and integration concepts for use in future generations of CMOS technology. Since 2010, Dr. Koester has been a Professor of Electrical & Computer Engineering at the University of Minnesota where his research focuses on novel electronic, photonic, spintronic and sensing device concepts with an emphasis on graphene and other 2D materials. Dr. Koester has authored or co-authored over 300 technical publications and conference presentations, 7 volumes, 4 book chapters, and holds 74 United States patents. He is a Fellow of the IEEE and Optica.