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After my PhD in Physics at Lund University in 1977, I did Post-doc at IBM in California. In 1986 I became Professor at Chalmers/Gothenburg University and returned to a Professorship in Lund, 1988, then initiating Nanoscience research. Since about 15 years, my focus is on semiconductor nanowires. Beside basic interest in the materials physics aspect of such structures I have focused much attention on transport and optics based on heterostructures in nanowires. In other research efforts I have been developing nanoelectronics opportunities, like wrap-all-around and tunnel field-effect transistors. I am heavily engaged in the fields of nanowire-based light-emitting diodes and nanowire-based photovoltaics, conducted jointly with our spin-out-companies Glo AB and Sol Voltaics AB.

I have published well over 600 papers in international journals, with h-index ≈ 76 and m-index ≈ 2 . I am Member of the Royal Swedish Academy of Sciences, KVA (Physics) and of the Royal Swedish Academy of Engineering Sciences, IVA. In 2008 I was awarded as “Einstein Professor” by the Chinese Academy of Sciences, in 2011 the Ideon Prize for Innovation, and in 2013 the IUUSTA Prize for Science of the Triennium 2010 – 2013, and in 2014 I was awarded the “Fred Kavli Distinguished Lectureship in Nanoscience”.