

Personal data & contact information:

- Date and place of birth: July 10, 1969, Køge, Denmark, Citizenship: Danish
- Civil Status: Married, 2 children
- Phone numbers: +45 4525 6328 (office), +45 29912360 (cell phone)
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Education and academic degrees:

- *PhD in Theoretical Physics*, Technical University of Denmark (1997)
- *Cand. Scient.*, Physics (Mathematics) University of Copenhagen (1994)

Employment track & research affiliations:

- Partner in DNRF Center of Excellence on Nanostructured Graphene (CNG, 2012-18)
- Group leader, <http://www.nanotech.dtu.dk/TNE> (04 – present)
- Associate Professor (tenure), Dept. of Micro and Nanotechnology, DTU (04 – present)
- Associate Professor, Dept. of Micro and Nanotechnology, DTU (Mar. 01 - Jun. 04)
- Assistant professor, MIC, DTU, Denmark (98 – 01)
- Post doc. position, Tsukada lab., University of Tokyo, Japan (97-98)
- Research assistant, CAMP, DTU, April 97 – Sept 97

Honors, awards, and funding/management experience:

- Elektro-prisen/"the electro-prize" of the electrical engineering society of Denmark, 2013
- Lundbeck foundation (2010/2012), PI: 1.6 MDKK, 1.2 MDKK
- DNRF Center of Excellence (Partner, 1 Ph.D. student + 1 post doc. from a total of 54 MDKK)
- Sumitomo Chemical Ltd. collaborative grant in 2007-2012 (1.000.000 yen/year)
- Danish research council, FNU (2008/2010/2012), PI: 1.4 MDKK, 2.6 MDKK, 2.4 MDKK
- Grant for computer resources DCSC 2008, 2012 PI: 0.85 MDKK
- Principal Investigator funded by ESF EUROCORES SONS (2004-2007)/1.6MDKK
- CNRS Poste-Rouge visiting professor, Université P. Sabatier, Toulouse (2003 Sept-Oct)
- Skou stipend from the Danish Natural Science Council (2001-2004)
- Funding (cumulative, excl. DTU-stipends for Ph.D. students), PI: 18 MDKK

Research activities:

Nanoelectronics based on nanomaterials such as molecules, nanowires, nanotubes, graphene. Theory of nano-scale electronic conduction. First principles methods. Current-induced non-equilibrium atomic processes. Heat dissipation and heat transport at the nanoscale.

Publication and citation statistics (ISI August 2013):

- 93 ISI/peer-review journal papers, 6 book chapters, 1 Nature Nanotech. News and Views.
- >5380 citations, Hirsch h-index: 35, top-5 citations: 1363, 287, 223, 210, 180

Invited lectures and addresses (since 2005)

- 25 invited talks at international conferences/workshops, 7 department talks.

Patenting and innovation:

- Past and present collaborations: QuantumWise, Atomistix A/S, Sumitomo Chem. Ltd., Japan

Teaching and supervision:

- Currently supervising (main/co-supervisor): 1 Post Doc., 4 Ph.D. stud., 1 Master stud.
- Finished projects (main/co-supervisor): 2/1 Post Doc., 3/1 Ph.D., 13 Master, 8 Bac. stud.
- Lecturer in undergraduate and graduate classes (5 BSc/MSc, 2 PhD classes)
- Formal training in university pedagogic and didactics (DTU 2004-2005)

Selected professional activities:

- Review Editor for *Frontiers in Condensed Matter Physics*, Referee for Nature Nanotech., Nature Mat., Nature Chem., Phys. Rev. Lett./B., Nano Lett., J. Am. Chem. Soc., a.o.
- Organized/Co-organized workshops/conferences: CECAM/PSI-K(2013,'09,'08), Nordforsk spintronics(2009)
- Grant-proposal reviewer: ANF(13), Acad.Finland(10), EU:FP7('12,'07), ESF(05), NSF/U.S.A(05,08), a.o.
- Committees: Perm. univ. positions (assoc. prof., prof.): 3, Ph.D thesis eval.: 11