CURRICULUM VITAE

Personal data

Name	Markku Sopanen
Born	May 11, 1964, Helsinki, Finland

Education

Master of Science (Tech.), Helsinki University of Technology (TKK), 1991. Study programme: engineering physics.

Doctor of Science (Tech.), TKK, 1997. Thesis: *Self-organized Growth and Optical Spectroscopy of Semiconductor Nanostructures*.

Docent in physics, TKK, Optoelectronics Laboratory, Nov 2002 – Mar 2009.

Positions

Helsinki University of Technology (TKK), Laboratory of Physics
Research and teaching assistant, Jan 1988 – Dec 1990

TKK, Optoelectronics Laboratory
Researcher, Apr 1991 – Jul 1992
Assistant post/Researcher, Aug 1992 – Dec 1997
Lecturing researcher, Jan 1998 – Aug 2006
Professor in nanotechnology (acting), Oct 2003 – Sep 2004

Academy of Finland
Postdoctoral researcher, Aug 1998 – Jul 2000
Academy fellow, Oct 2000 – Jul 2001

University of California San Diego, Department of Electrical and Computer Engineering
Associate visiting scientist, Jan 1999 – Aug 1999

TKK (from 2010 Aalto University), Department of Micro- and Nanosciences
Lecturing researcher, Sep 2006 – Feb 2009
Professor (fixed term), Mar 2009 – Feb 2014
Senior university lecturer, Mar 2014 – Sep 2014
Associate Professor (tenured), Oct 2014 –

Thesis supervision

Doctoral degree (supervisor), 11 theses, 2006 – 2014.
Master's degree (supervisor/instructor), 24 theses, 1994 – 2014.

Expert and reviewer tasks

Evaluator for EU FET-OPEN, 2010 – 2012.
Pre-examiner, 4 doctoral theses, 2003 – 2014.
Opponent, 1 doctoral thesis, 2014.

Positions of trust

Finnish representative in COST MP1302 "Nanospectroscopy", 2014 – 2016.

Finnish representative in COST MP0805 "Novel Gain Materials and Devices Based on III-V-N Compounds", 2009 – 2013.

Experience of leadership

Leader of optoelectronics group, TKK/Aalto University, since 2003.

Head of Optoelectronics Laboratory, TKK, Oct 2003 – Sep 2004.

Director of international *Master's Programme in Micro- and Nanotechnology*, TKK, Oct 2003 – Sep 2006.

Director of international *Master's Programme in Micro- and Nanotechnology*, Aalto University, May 2011 –.

Acquired external funding

Academy of Finland, 1 070 000 EUR, 2002 – 2014.

TEKES, 1 570 000 EUR, 2007 – 2012.

Publications – ISI 15.12.2014

ISI	160
N:o of citations	1684
H-Index	17

Most important publications

I. H. Lipsanen, M. Sopanen and J. Ahopelto, Luminescence from excited states in strain-induced InGaAs quantum dots, Physical Review B 51 (1995) R13868–13871. Cited: 165.

II. M. Sopanen, H. P. Xin, and C.W. Tu, Self-assembled GaInNAs quantum dots for 1.3 and 1.55 μm emission on GaAs, Applied Physics Letters 76 (2000) 994–996. Cited: 158.

III. S. Grosse, J. Sandmann, G. von Plessen, J. Feldmann, H. Lipsanen, M. Sopanen, J. Tulkki and J. Ahopelto, Carrier relaxation dynamics in quantum dots: scattering mechanisms and state filling, Physical Review B 55 (1997) 4473–4476. Cited: 99.

IV. J. Sormunen, J. Riikonen, M. Mattila, J. Tiilikainen, M. Sopanen, and H. Lipsanen, Transformation of self-assembled InAs/InP quantum dots into quantum rings without capping, Nano Letters 5 (2005) 1541–1543. Quantum ring fabrication method.

V. A. R. Lingley, M. Ali, Y. Liao, R. Mirjalili, M. Klonner, M. Sopanen, S. Suihkonen, T. Shen, B. P. Otis, H. Lipsanen and B. A. Parviz, A single-pixel wireless contact lens display, J. Micromech. Microeng. 21 (2011) 125014. More than 300 news appearances, incl. BBC.

VI. V. Dhaka, T. Haggren, H. Jussila, H. Jiang, E. Kauppinen, T. Huhtio, M. Sopanen, and H. Lipsanen, High Quality GaAs Nanowires Grown on Glass Substrates, Nano Letters 12 (2012) 1912-1918. Nanowires on glass –method.