



Name

Ivan Maximov (Russian: Иван Александрович Максимов)

- Born: June 12-th, 1962 in Alexandrov, Vladimir region, Russia.
- Current position/responsibility: Head of Nano-process Laboratory and Coordinator of Lund Nano Lab within the NanoLund consortium.
- Infrastructure Research Fellow of Swedish Foundation for Strategic Research (SSF) at Lund Nano Lab (SSF grant 2016-2020).

Education and academic degrees

- **Associate Professor in Physics**, Lund University, Sweden, 2012
- **Ph.D. in Solid State Physics**, Lund University, Sweden, 1998. Thesis: Fabrication of Low-Dimensional Structures in III-V Semiconductors, 1997. Supervisor: Prof. Lars Samuelson.
- **Tekn. Lic. in Solid State Physics**, Lund University, Sweden, 1995. Thesis: Aerosol-Based Fabrication of Nanometer-Sized and Low-Dimensional Structures in III-V Semiconductors, Degree of Licentiate of Engineering in Solid State Physics, Lund University, Sweden, 1995. Supervisor: Prof. Lars Samuelson.
- **MSc in Materials Science**, Moscow Institute of Electronic Engineering, Zelenograd, Moscow, 1986. Thesis: Photo-Assisted Chemical Vapor Deposition of Dielectrics, Degree of Master of Science in Materials Science, 1986. Supervisor: Dr. Igor Aizenberg.

Previous positions

- Head of nm-laboratory, Division of Solid State Physics, Lund University, Lund, Sweden. 1998-2006
- PhD student, then Research Engineer, Division of Solid State Physics, Lund University, Lund, Sweden. 1991-1998
- Junior Research Fellow, Laboratory of Epitaxy, Institute of Microelectronics Technology, USSR Academy of Sciences, Chernogolovka, Moscow distr., USSR. 1988-1991
- Guest Researcher, EPIQUIP AB, Science Park, IDEON, Lund, Sweden. Research work within a joint (Chernogolovka-Lund) collaboration project. 1989-1990
- Engineer, Laboratory of Dielectrics, Institute of Microelectronics Technology, USSR Academy of Sciences, Chernogolovka, Moscow distr., USSR. 1986-1988

Experience

- More than 25 years of research experience in methods of nanofabrication and characterisation. 1991-2016
- Teaching and supervision of PhD- and MSc-students and post-doctoral scientists. 1997-2017
- Management, safety and technical support of cleanroom nanofabrication labs. 1997-2016
- Design, building of Lund Nano Lab and putting it into operation. 2003-2007
- Participation of EU- and Swedish research projects (>12 projects). 1996-2017

Publication/Presentations/Invited talks

- 97 refereed publications in international journals
- >70 conference reports
- h-index: 23, Web of Knowledge (2016)
- >10 invited talks and presentation

Research experience

- Block Copolymer (BCP) nanolithography
- Nanoimprint lithography. NIL-based technology of III-V electronic devices and NEMS elements
- Electron Beam Lithography and electron beam sensitive resists. Technology of electron waveguide devices.
- Focused ion beam technology and high-energy ion beam implantation in nanofabrication.
- Low-energy reactive ion etching of III-V heterostructures in electron cyclotron resonance (ECR) plasma. Study of radiation-induced effects.
- Technology of aerosol nano-particles.
- Characterization of nanostructures: SEM, AFM, PL, electrical measurements and others.

Reviewer for journals/participation in program committees

- Journal Vacuum Science and Technology
- Nanotechnology
- Applied Surface Science
- IEEE Transactions on Nanotechnology
- Soft Matter
- Journal of American Ceramic Society
- EIPBN conference program committee member

Teaching experience

- Practice-oriented course "Advanced Processing of Nanostructures", currently given 2 times/year, Lund University. From 2007
- Invited lecturer of "Technology of Nanostructures", Moscow Institute of Electronic Engineering, Zelenograd, Russia. 2013
- Lithography and etching lectures in course "Physics and Technology of Nanometer Structures, Lund University. 2000-2003
- Lectures on nanopatterning in course "Physics and Chemistry of Nano-Structures", University of Copenhagen, Denmark. 2001

Supervision of PhD-, MSc- and BSc-students

- 3 PhD-students (supervision and co-supervision)
- 1 Tekn. Lic. student (co-supervision)
- >17 MSc- and BSc-students

External Examiner/Referee of PhD-dissertations/Evaluation of Research Applications

- 3 PhD-dissertations
- Evaluator of 4 external research applications and programs

Memberships

- Member of Steering Board of Swedish Society for Vacuum Technology and Materials Science (SVS). 2014-2016
- Member of Lund University Alumni

Interests

- Photography, architecture, reading, nature, travel