

Konstantin Ladutenko

Date of Birth	15 th January 1983	Address	Apt. 257, Bld. 32/1, Prosveshcheniya Pr., St. Petersburg, 194358
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Personal Profile

I was involved in a scientific research at high school as an intern at Ioffe Institute, where I got a research position after graduation from the Saint-Petersburg State Polytechnical University. I have a good knowledge of semiconductor physics and a lot of experimental experience with atomic-force microscopy. In 2011, I moved to a position in ITMO University. My research interests are in the areas of numerical methods and simulation in physics, with a focus on Mie theory and stochastic optimization.

Education

2000 - 2006 MSc [Saint-Petersburg State Polytechnical University](#)
Winner of grant for students from St. Petersburg goverment – 2006

1998-2000 [Lyceum “Physical-Technical School”](#)

Employment History

Sep 2001 - Present [Ioffe Institue, 194021, Politehnicheskaya st., 26, St. Petersburg, Russia](#)

Jr. research fellow

2008 - best postgraduate work in St. Petersburg Academic University

2008 - grant from Alferov’s Foundation

2009 - best young scientist work in Ioffe Institue

2009 - 1st place in young scientist contest, winter school of Ioffe Institute

Oct 2011 - Present [ITMO University, 197101, Kronverkskiy pr., 49, Saint Petersburg, Russia](#)

Research Engineer, Lecturer

Publications

- **Papers**

1. *Superabsorption of light by nanoparticles*
Konstantin Ladutenko, Pavel Belov, Ovidio Peña Rodríguez, Ali Mirzaei, Andrey Miroshnichenko and Ilya Shadrivov
[Nanoscale, 7, 18897-18901 \(2015\)](#)
2. *Reduction of scattering using thin all-dielectric shells designed by stochastic optimizer*
Konstantin Ladutenko, Ovidio Peña-Rodríguez, Irina Melchakova, Ilya Yagupov, and Pavel Belov
[J. Appl. Phys., vol. 116, pp. 184508 \(2014\)](#)

3. *Performance of FDTD method cpu implementations for simulation of electromagnetic processes*
D. L. Markovich, K. S. Ladutenko, and P. A. Belov
[PIER, vol. 139, pp. 655-670, \(2013\)](#)
4. *Nanophotonics integrated circuits simulation: FDTD method (in Russian)*
K.S. Ladutenko, P.A. Belov
[Nanosystems: physics, chemistry, mathematics, vol. 3\(5\), pp. 42-61 \(2012\)](#)
5. *On the accuracy of quantitative measurements of the local surface potential*
Ladutenko, K. S.; Ankudinov, A. V.; Evtikhiev, V. P.
[Tech. Phys. Lett., vol. 36\(3\), pp. 228-231 \(2010\)](#)
6. *Direct observation of minority carrier leakage in operating laser diodes by Kelvin probe force microscopy*
Ladutenko, K. S.; Ankudinov, A. V.; Evtikhiev, V. P.
[Tech. Phys. Lett., vol. 35\(6\) pp. 573-576 \(2009\)](#)
7. *Kelvin probe force and surface photovoltage microscopy observation of minority holes leaked from active region of working InGaAs/AlGaAs/GaAs laser diode* Ankudinov, A. V.; Evtikhiev, V. P.; Ladutenko, K. S.; et al.
[J. Appl. Phys., vol. 101\(2\) 024504 \(2007\)](#)
8. *Kelvin probe force microscopy of hole leakage from the active region of a working injection-type semiconductor laser diode*
Ankudinov, A. V.; Evtikhiev, V. P.; Ladutenko, K. S.; et al.
[Semiconductors, vol. 40\(8\) pp. 982-989 \(2006\)](#)

- **Conferences**

- Days on Diffraction, St. Petersburg, Russia (2016)
- Days on Diffraction, St. Petersburg, Russia (2014)
- Microwave Electronics and Microelectronics, St. Petersburg, Russia (2014)
- Science and Innovations in Technical Universities, St. Petersburg, Russia (2009)
- Nanophysics and Nanoelectronics, Nizhny Novgorod, Russia (2009)
- Semiconductor lasers: physics and technologies, St. Petersburg, Russia (2008)
- Nanophysics and Nanoelectronics, Nizhny Novgorod, Russia (2008)
- Nanophysics and Nanoelectronics, Nizhny Novgorod, Russia (2007)
- Nanophysics and Nanoelectronics, Nizhny Novgorod, Russia (2006)
- 7th Int.Conf. on Mid-Infrared Optoelectronic Materials and Devices, Lancaster, UK (2005)

- **Patents**

- Software state registration №2014611568 (2014)
- Software state registration №2012618127 (2012)
- Software state registration №2011617390 (2011)

Interests

- **Travelling, Hiking**
- **Swimming**
- **Photography**
- **Woodwork**