

CURRICULUM VITAE



NAME Konstantin (Constantin) R. Simovski

DATE OF BIRTH 12 July, 1957, USSR

EDUCATION

2000 Doctor of Sciences in Physics and Mathematics, St.-Petersburg Polytechnic University, Russia

1986 Ph.D. in Radio Physics, Leningrad Polytechnic Institute, USSR

1980 Diploma Eng.-Physicist in Radio Physics, Leningrad Polytechnic Institute, USSR

PROFESSIONAL EXPERIENCE

2012 to present - Full Professor, Aalto University, Finland

2008 to 2012 - Visiting Professor (fixed term) Aalto University/ TKK/ Helsinki University of Technology, Finland

2001 to 2008 - Full Professor, Department of Physics, St. Petersburg University of Information Technologies, Mechanics and Optics (University ITMO)

1995 to 2001 - Associate Professor, Department of Physics, St. Petersburg University of Fine Mechanics and Optics

1994 to 1995 - Assistant Professor, Department of Physics, St. Petersburg University of Fine Mechanics and Optics

1992 to 1994 - Assistant, Department of Physics, St. Petersburg University of Fine Mechanics and Optics

1991 to 1992 - Head of a scientific group, Soviet scientific and industrial firm "Impulse"

1988 to 1991 - Leading engineer, Soviet scientific and industrial firm "Impulse"

1987 to 1988 - Senior engineer, Soviet scientific and industrial firm "Impulse"

1980 to 1987 - Engineer, Soviet scientific and industrial firm "Impulse"

TEACHING AND RESEARCH

Teaching awards and qualifications

2001 Title of Professor, granted by the National University of Informational Technologies, Mechanics and Optics (former State Institute of Fine Mechanics and Optics), St. Petersburg, Russia

2001 Title of Soros' Associate Professor (teaching award, 1400 USD), granted by the George Soros' International Science Foundation (ISSEP)

2000 Title of Soros' Associate Professor, ISSEP

1999 Title of Soros' Associate Professor, ISSEP

1997 Title of Docent, University of Fine Mechanics and Optics, St. Petersburg, Russia

Courses taught

B. Sc. (in Russian):

- classical and relativistic mechanics (8-16 lectures),
- thermodynamics and molecular physics (8-16 lectures),
- electric and magnetic phenomena (8-16 lectures),
- oscillations and waves (4-8 lectures),
- classical optics (8-16 lectures),
- thermal radiation (2-4 lectures),
- elements of quantum optics (2-4 lectures)

- Eléments des dispositifs sémiconductrices (4 lectures, **in French**)

M. Sc (**in English**):

- Elements of the field theory and guided waves (12 lectures)
- Electromagnetic compatibility (12 lectures)

PhD students (**in English**):

- On the electrodynamics of media with weak spatial dispersion (4 lectures)
- Microscopic theory of metamaterials (8 lectures)
- Metamaterials from inside (10 lectures) –updated previous course

Research supervision

Ph.D. theses

Supervisor:

Pavel Belov (University ITMO) – 2003
Mikhail Kondratiev (University ITMO) – 2003
Konstantin Stokov (University ITMO) – 2005
Irina Melchakova (University ITMO) – 2008

Instructor: Min Qiu (KTH, Stockholm) – 2001, Bernard Bayard (University of St. Etienne, France) – 2002, Olli Luukkonen (Aalto University) – 2009

Examiner, opponent, rapporteur, jury member: more than 20 theses in Russia, 4 theses in Europe (Eric Verney, University Paris-VI, Chadi Nader University of St. Etienne, Jorgen Rumprecht, KTH, Stockholm, Virginie Ponsinet, University Bordeaux-I)

Current doctoral students: Dmitry Morits, Mohammad Albooyeh (defenses are planned in 2014), Mohammad Mirmoosa, Mikhail Omelyanovich (1st year postgraduates)

M.Sc. theses

Supervisor: Pavel Belov (University ITMO) – 2000, Mikhail Kondratiev (University ITMO) – 2000, Konstantin Stokov (University ITMO) – 2002, Lev Naumov (University ITMO) – 2003, Irina Melchakova (University ITMO) – 2005

B.Sc. diploma works

Supervisor: Pavel Belov (University ITMO) –1998, Mikhail Kondratiev (University ITMO) – 1998, Konstantin Stokov (University ITMO) –2000, Lev Naumov (University ITMO) – 2001, Irina Melchakova (University ITMO) –2003

Grants in Russia:

- Grants of the Russian Foundation for Basic Research in: 1996-1998 (project leader), 2001-2003 (project leader);
- Research grants of Russian Ministry of Education in Optical devices: 1998-1999 (project leader),
- Research grants of Russian Ministry of Education in Radio engineering: 1998-1999 (project leader), 2000-2001 (project leader), 2001-2002 (project leader), 2003-2004 (project leader)

Grants in Sweden:

- Visby individual research grant of the Swedish Institute in 1999;
- The Swedish Academy grant for a joint project with Russia “Metal Photonic Crystal Antennas” in 1999-2002 with Sailing He (co-director from Sweden)

Grants in Finland:

- FP7 project ECONAM (Electromagnetic characterization of nanostructured materials), scientific coordinator, 2008-2011
- FP7 project METACHEM (Nanotechnology and self-assembly routes to metamaterials for visible light) - principal investigator and contact person of Aalto’s team, 2009-2013;
- Finnish Academy project NANOMETA (Magnetophotonics, plasmonics and nanooptics of heterogeneous metamaterials) – project leader, 2010-2013;

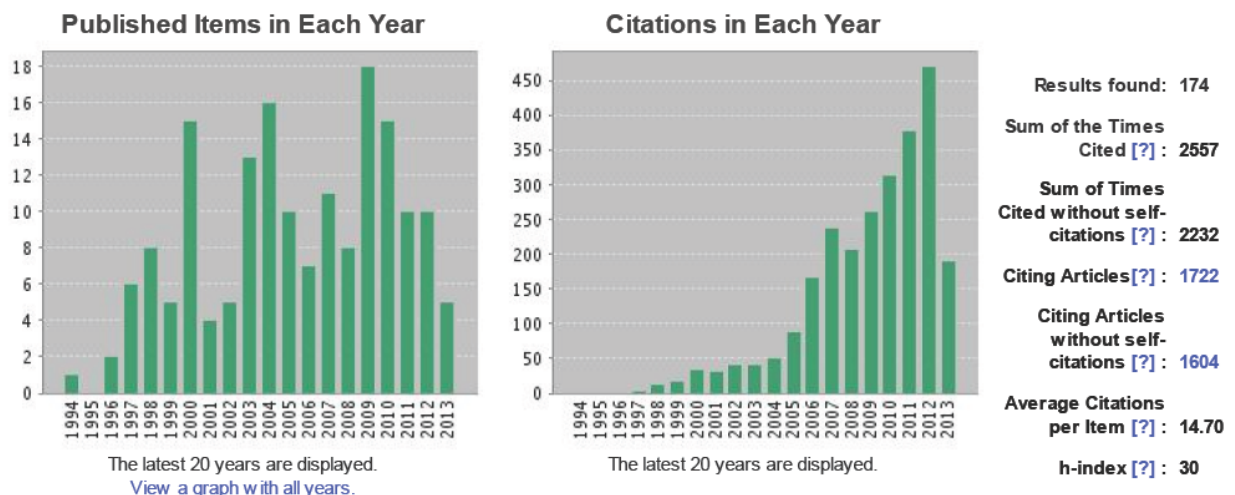
- Pre-seed project of the Aalto Center of Entrepreneurship (Custom design solar cells enhanced by nanoantennas) – project leader, 2012;
- Project of the ELEC school, Aalto University EffiNano (Efficient energy harvesting in advanced nanostructures) –workpackage leader, 2012-2014.

Scientific awards in Finland: Nokia Fellowship in 2001.

h-index (Oct. 1, 2013): ISI Web of knowledge – **30**, Scopus – **32**, Google Scholar - **37**

Citation Report Author=(Simovski C OR Simovsky C OR Simovskii K OR Simovski K OR Simovsky K)
 Timespan=All years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

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Other recognitions:

1. For a cycle of works (written in co-authorship with Constantin Simovski) Dr. Pavel Belov (presently Professor and Laboratory Head in the University ITMO, St. Petersburg) gained in 2009 the title “The best young scientist of Russia” in the nomination “Physics and Mathematics” for researchers under 35. The title implies a keen competition and is accompanied by the personal award of the Russian Presidential Foundation (80 KEUR). The medal and money are offered personally by the President of Russia in presence of the head of institution where the winner works, the members of his family and 1-2 main coauthors of the awarded publications. On Feb. 10, 2010, this group of persons (comprising C. Simovski as the main coauthor of the winner) was received and congratulated by President D. Medvedev in Kremlin.
2. Papers authored and co-authored by C. Simovski were several times selected for Virtual Journals and Exclusive Collections of Highlights: e.g. *Phys. Rev. B*, Vol. 73, 045102 (1-12), 2006; *Phys. Rev. B*, vol. 79, p. 045111, 2009; *Optics and Spectroscopy*, Vol. 107, 726–753, 2009; *J. Optics*, Vol. 13, 013001 (1-22), 2011.
3. C. Simovski was an invited speaker in more than 20 scientific conferences and a keynote speaker in Metamaterials’2013 (Bordeaux, Sept. 19-25, 2013)

SERVICE AND PROFESSIONAL ACTIVITIES

International academic activities

1. Royal Technological Institute of Stockholm:
 - visiting scientist in 1998, in 1999, in 2000, in 2001,
 - visiting professor in 2002.
2. Université Jean Monnet, St. Etienne, France:
 - visiting professor in 2000, in 2002, in 2003, in 2004, in 2005, in 2006, in 2007.
3. Université Pierre et Marie Curie, Paris, France:
 - visiting professor in 2000, in 2004.
4. Helsinki University of Technology:
 - visiting researcher in 2002, in 2004, in 2005, in 2006.
 - visiting professor in 2003.
5. Zhejiang University:
 - visiting professor in 2000, in 2005.

Organizing Member of organizing committee of the 1st Seminar on Metamaterials within the frameworks of an annual international conference Days of Diffraction, May 28-31, 2006, St. Petersburg, Russia

Session Chair IEEE Antennas Propagation Symposia: in 2003 (Columbus, OH), in 2004 (Monterrey, CA), Progress In Electromagnetic Research: in 2005 (Hangzhou, China), in 2006 (Boston, MA), Days of Diffraction: every year in 2006-2013 (St. Petersburg), Metamaterials: every year (2007 – Rome, 2008 – Pamplona, 2009- London, 2010 - Karlsruhe, 2011 – Barcelona, 2012 - St. Petersburg, 2013 - Bordeaux)

Reviewer for Conferences IEEE Antennas Propagation Symposia: in 2003 (Columbus, OH), in 2004 (Monterrey, CA), Days of Diffraction: in 2006-2012 (St. Petersburg, Russia), Metamaterials' 2007 (Rome, Italy), 2008 (Pamplona, Spain), 2009 (London, UK), -2010 (Karlsruhe, Germany), 2012 (St. Petersburg, Russia), 2013 (Bordeaux, France), Optics and Optoelectronics 2009 (Prague, Czech Republic), 2013 (Prague, Czech Republ Int. Conf. Or Nonlinear Optics/ Laser Applications and Theory), ICONO/LAT – 2011 (Kazan, Russia).

Referee Phys. Rev. Letters, Phys. Rev. B, Phys. Rev. E, IEEE Trans. Antennas Propagation, IEEE Trans. Microwave Theory Technique, IEEE Antennas Wireles Propagation Letters, IEEE J. Light-wave Technology, J. Optics (Pure and Applied), J. Physics A, J. Physics D, Optics Letters, Optics Express, Metamaterials, Physics Letters A.

Presentations Participated in more than 50 international conferences (also in all-Russian and all-Union Soviet conferences)

Committees

Member of Technical Program Committee of annual international conferences /congresses:

1. Metamaterials'2007, Rome, Italy
2. Optics and optoelectronics'2013, Prague, Czech Republic

Representative of Russia and Belorussia in the European Microwave General Assembly: 2003-2005

LANGUAGE SKILLS

Russian	Mother tongue
English	Fluent
French	Fluent
Finnish	Fair