CURRICULUM VITAE

Tatiana Liashenko

March 26th, 1992, Ukraine

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EDUCATION

2014 – 2015

Lappeenranta Technical University "LUT"

Technical Physics department (M.Sc.)

2009 – 2015

Saint Petersburg Electrotechnical University "LETI"

Electronics department, Micro- and Nanoelectronics,
(B.Sc., M.Sc)

2007 – 2009

II MOU Sertolovskaya secondary school

Excellent marks, graduation with silver medal (extended subjects: chemistry and biology)

1998 – 2007

MOU Borkovskaya school

Advanced studies of foreign languages

PRESENTATIONS

- Solar energy
- Power Alternatives for the United States
- Photoconductivity of oxide wide-gap semiconductors caused by plasmon effects in silver and gold nanoparticles.
- Study of the charge transport mechanism in the passages of the Schottky barrier based on the ZnO: Al oxide film and silver nanoparticles.
- Photosensitive oxide multilayer films AZO-AgNP-AZO for applications in photovoltaics
- Plasmon effects in composite structures ZnO:Al with silver nanoparticles

PROGRAMMING SKILLS

- **MathCad**
  Software primarily intended for the verification, validation, documentation, and re-use of engineering calculations
- **LabView**
  Device integrating programming environment
- **KOMPAS 3D - KOMPAS Graphic**
  3D - CAD system of the company ASCON; 3D parametric modeling module and / Graphic - the 2D design and drafting module
- **Comsol Multiphysics**
  Software platform for modeling and simulating physical processes
- **Adobe Illustrator**
  Vector graphics editor

LANGUAGES

Russian
mother tongue

Dutch
Learning A1/A2

English
advanced

Finnish
learning for half a year

EXPERIENCE

- Sept 2012 – June 2013

  Saint Petersburg Electrotechnical University "LETI" (research assistant)

  Center for Microtechnologies and diagnostics, workshops

- Sept 2016 – Now

  ITMO University (engineer)

  Modern Functional Materials department

RESEARCH SKILLS

- 2012 – 2013

  Saint Petersburg Electrotechnical University "LETI"

  Center for Microtechnologies and diagnostics, Research work

  Development of the physicochemical principles and the creation of micro- analytical sample nanobiosystems for rapid identification of preclinical biomarkers of myocardial infarction

- 2013 – 2014

  Saint Petersburg Electrotechnical University "LETI"

  Center for Microtechnologies and diagnostics, Research work

  The chemical synthesis of colloidal quantum dots zinc chalcogenides

PUBLICATIONS

E.V. Shirshneva-Vaschenko, I.M. Sosnin, R.K. Nuryev, I.A. Gladskikh, T.G. Liashenko, V.E. Bugrov and A.E. Romanov

Electrical and Optical Properties of Transparent Conducting ZnO: Al/AgNP Multilayer Films,

Materials Physics and Mechanics,

2016

E.V. Shirshneva-Vaschenko, L.A. Sokura, T.G.Liashenko, E.Podlesnov, V.E.Bougrov and A.E.Romanov

Fabrication of p-type transparent oxide films with delafossite structure by sol-gel processing,

Materials Physics and Mechanics,

2017

COMPLETED COURSES

- Quantum Mechanics and Statistical Physics;
- Physical chemistry of nanostructured materials for electronics;
- Nanoelectronics components and devices;
- Biomedical nanotechnology;
- Development of Physico-Chemical Methods of Synthesis and Analysis of Functional Devices for Nanoelectronics;

SUMMER SCHOOL

- 2015

  Utrecht University

  Course Nanomaterials: Science and Applications

- 2015

  LUT Summer school

  Courses: 3D Printing and additive manufacturing / Solar economy

CERTIFICATE

Delft University of Technology through edX

Certificate of achievement in Solar energy course

Tulp Educatie, Rotterdam (the Netherlands)

Participation in intensive course Dutch and reaching NT2 level A1

FIELDS OF INTEREST

Nanophotonics

Solar cell development

Material science

Lab-on-chip

Biomedical nanotechnology