

# Viacheslav I Korolev

*Curriculum Vitae*

## PERSONAL DETAILS

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*Birth* October 15, 1995  
*Address* 8 Marshal Govorov ave, Saint Petersburg, Russia  
*Phone* +7 (911) 220 76 46  
*Mail* viacheslav.korolev@metalab.ifmo.ru  
slava85korolev@gmail.com

## EDUCATION

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### MSc Optics

2017– Present

*ITMO university*

Faculty of Physics and Engineering

Department of Nanophotonics and Metamaterials

Supervisor: Ph.D. Anatoly Pushkarev (<https://metalab.ifmo.ru/people/~pushkarev>)

Title of thesis: Enhanced THz emission from MAPbI<sub>3</sub> thin films by using nano-imprint lithography

### BSc General Physics

2013 – 2017

*Peter the Great St.Petersburg Polytechnic University (SPbPU)*

Institute of Physics, Nanotechnology and Telecommunications

Department of Semiconductors and Nanotechnology.

Title of thesis: Creating and research of photodetector for medium infrared range

### School

2002 – 2013

*Gymnasium 397*

*Profile English language*

## WORK EXPERIENCE

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### ITMO University

Department of Nanophotonics and Metamaterials

2017 – Present

*Engineer*

Creation and study of LEDs, nano-lasers and THz emitters based on perovskites

### Ioffe Institute, Saint-Petersburg

Laboratory of InfraRed Optoelectronics

2016 – 2017

*Lab assistant*

Creation and characterization of photodetector for the mid-IR range, based on a four-component InAsSbP solid solution, made by the MOCVD method

## SKILLS

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<i>Languages</i>	Russian (mother tongue) English (advanced)
<i>Programming</i>	PYTHON
<i>Software</i>	CST STUDIO, ORIGIN, BLENDER RENDER
<i>Special skills</i>	Experience in glovebox operation and maintenance Optical Microscope characterization Fabrication of samples by means of spincoating

## PUBLICATIONS

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1. A. Pushkarev, V. Korolev, D. Markina, F. Komissarenko, A. Naujokaitis, A. Drabavičius, V. Pakštas, M. Franckevičius, S. Khubezhov, D. Sannikov, A. Zasedatelev, P. Lagoudakis, A. Zakhidov, S. Makarov(accepted) “A Few-Minute Synthesis of CsPbBr<sub>3</sub> Nanolasers with a High Quality Factor by Spraying at Ambient Conditions”, ACS Applied Materials Interfaces, vol. 11, pp. 1040-1048, 2019
2. AP Pushkarev, VI Korolev, SS Anoshkin, FE Komissarenko, SV Makarov, AA Zakhidov “Cesium lead mixed-halide perovskites in polymer matrix” Journal of Physics: Conference Series, vol. 1092 (1), pp. 12122, 2018

## EXTRACURRICULAR ACTIVITIES

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1. All-Russian Engineering Competition winner (2015)
2. Peter the Great St.Petersburg Polytechnic University technical yachting club member
3. Multiple winner of engineering competitions (at school)