

# Lidia Mikhailova

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## EDUCATION

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**Siberian federal university, School of Engineering Physics and Radio Electronics, Krasnoyarsk, Russia** Sep 2016 - Jul 2020  
Bachelors of Physics GPA: 4.64

**ITMO University, Faculty of Physics, Saint Petersburg, Russia** Sep 2020 - Aug 2022  
Masters of Applied physics, Speciality - Nanophotonics and Metamaterials GPA: 4.55

**ITMO University, Faculty of Physics, Saint Petersburg, Russia** Sep 2022 - present time  
PhD student, Speciality - Optics

## EXPERIENCE

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**ITMO University, Faculty of Physics** Dec 2021 - Present time  
Engineer Saint Petersburg, Russia

- Nonlinear optics.
- Laser physics.
- Hybrid materials.

**Siberian federal university** Jul 2019 - Aug 2019  
Tutor in Physics and Maths for school students Krasnoyarsk, Russia

- Travelling school scientific projects.
- Exam preparations.

**Siberian federal university, Laboratory of Biophotonics** Dec 2019 - Aug 2020  
Researcher Krasnoyarsk, Russia

- Absorption spectroscopy.
- Absorption theory.
- Polyelectrolyte complexes.

## PUBLICATIONS

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1. E N Gerasimova, V V Yaroshenko, P M Talianov, O O Peltek, L V Mikhailova, M A Baranov, P V Kapitanova, D A Zuev, A S Timin and M V Zyuzin. Temperature monitoring during light-induced release of cargo using polymer capsules modified with gold nanoparticles and nanodiamonds // 2021 J. Phys.: Conf. Ser. 2015 012045.
2. N. V. Slyusarenko, M. A. Gerasimova, M. V. Atamanova, L. V. Mikhailova, E. A. Slyusareva. Adsorption properties of positively and negatively charges polyelectrolyte complexes based on chitosan and arabinogalactan sulfate // 2020 Proceedings of All-Russian Scientific Conference with international participation Yenisei Photonics — 2020.
3. L. V. Mikhailova, E. N. Gerasimova, V. V. Yaroshenko, M. V. Zyuzin. Investigation of nonlinear optical effects of hybrid thermosensitive platforms modified with plasmon and dielectric nanoparticles // 2022 Proceedings of All-Russian Scientific Conference with international participation Yenisei Photonics — 2022.
4. E. N. Gerasimova, V. V. Yaroshenko, L. V. Mikhailova, D. M. Dolgintsev, A. S. Timin, M. V. Zyuzin, D. A. Zuev. Thermally Induced Mechanical Switching of the Second-Harmonic Generation in pNIPAM Hydrogels-Linked Resonant Au and Si Nanoparticles // 2022 Adv. Opt. Mater. 2201375

## FUNDINGS AND GRANTS

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1. **RPMA - ITMO inner grant (researcher), 2021-2022:** Creation of optical sensors based on thermoresponsive polymer
2. **RFBR grant №18-43-242003 (researcher), 2018-2020:** Submicron polyelectrolyte complexes based on chitosan and arabinogalactan extracted from Siberian larch for effective wastewater treatment

## AWARDS AND SCHOLARSHIPS

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ITMO University increased scholarship for successful scientific research (2022)  
METANANO Summer School on Optical Biosensing - successful completion, awarded with 3 ECTS (2022)

## SKILLS

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•**Computer skills:** C++, Python, OriginPro, MatLab, LabVIEW, LaTeX, Microsoft Office

•**Languages:** Russian (native speaker), English (fluent), German (brief)