

IRINA SHEPELEVA

Doctorante au LOMA

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EXPERIENCE

PhD student

Laboratoire Ondes et Matière d'Aquitaine

11/2023 - Present Talence, France

CNRS

- Developing an electrically pumped laser

Junior Researcher

Laboratory of Physical Chemistry of Supramolecular Systems

12/2022 - 09/2023 Moscow, Russia

IPCE RAS

- Research on fluorescent sensors for nitroaromatic compounds detection

Laboratory Engineer

Laboratory of Physical Chemistry of Supramolecular Systems

09/2017 - 12/2022 Moscow, Russia

IPCE RAS

- Study of resonance energy transfer in Langmuir monolayers and thin films

EDUCATION

Master's degree, Chemical Technology

MIREA – Russian Technological University

Bachelor's degree, Chemical Technology

MIREA – Russian Technological University

SUMMARY

I am working on my doctoral thesis on developing an electrically pumped organic laser in the "Photonique et matériaux" group of LOMA. My particular interest focuses on the performance of the emissive layer of such a device, which includes the selection and study of potential molecular candidates for lasing emission, the conditions adjustment to obtain the best characteristics of the light emission, and the fabrication of a microlaser prototype.

SKILLS

Steady-State Fluorescence Spectroscopy

Time-Resolved Fluorescence Spectroscopy

Spectroelectrochemistry

Langmuir-Blodgett technique

OriginPro

COMSOL

ORCA

Blender

LANGUAGES

French ● ● ● ● ●

English ● ● ● ● ●

Russian ● ● ● ● ●

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