



# ANTON UTYUSHEV

## Master of Physics

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📍 Saint Petersburg, Russia

3rd year PhD student



## EDUCATION

### PhD in Physics

#### ITMO University

📅 2021 – Present 📍 Saint Petersburg, Russia

- Department of Nano-Photonics and Metamaterials,
- Advisor: PhD. Alexey A Shcherbakov

### BSc and MSc in Physics

#### Siberian State University of Science and Technology

📅 2015 – 2021 📍 Krasnoyarsk, Russia

- Department of Physics
- Advisor: Prof. Sergey V Karpov

## RESEARCH INTERESTS

Optics

Photonics

Perovskite

Modeling

## PUBLICATIONS

8. Mikhail A. Masharin et al. [Polariton lasing in Mie-resonant perovskite nanocavity](#). Preprint available on arXiv.org. **2024**.
7. Anton D. Utyushev et al. [Generation of nearly pure and highly directional magnetic light in fluorescence of rare earth ions](#). Physical Review B, 109, 045413. **2024**. (IF=3.908, SJR=1.537)
6. Lasse K. Sørensen et al. [Plasmonic enhancement of local fields in ultrafine metal nanoparticles](#). The Journal of Physical Chemistry C, 125 (25), 13900–13908, **2021**. (IF=4.126, SJR=1.401)
5. Anton D. Utyushev et al. [Collective lattice resonances: Plasmonics and beyond](#). Reviews in Physics, 6, 100051, **2021**. (SJR=1.894)
4. Iliia L. Rasskazov et al. [Remarkable predictive power of the modified long wavelength approximation](#). The Journal of Physical Chemistry C, 125 (3), 1963–1971, **2021**. (IF=4.126, SJR=1.401)
3. Lasse K. Sørensen et al. [Atomistic description of plasmonic generation in alloys and core shell nanoparticles](#). Physical Chemistry Chemical Physics, 23 (1), 173–185, **2021**. (IF=3.676, SJR=1.053)
2. Anton D. Utyushev et al. [Collective lattice resonances in all-dielectric nanostructures under oblique incidence](#). Photonics, 7 (2), 24, **2020**. (IF=3.14, SJR=0.669)
1. Anton D. Utyushev et al. [Engineering novel tunable optical high-Q nanoparticle array filters for a wide range of wavelengths](#). Optics Express, 28 (2), 1426–1438, **2020**. (IF=3.84, SJR=1.394)

## SOFT SKILLS

Lumerical FDTD

COMSOL

Python

Smuthi

STRATIFY

## APPOINTMENTS

### Engineer

#### ITMO University

📅 2021 – Present 📍 Saint Petersburg

### Junior Researcher

#### Siberian Federal University

📅 2020 – 2021 📍 Krasnoyarsk

### Engineer

#### Siberian Federal University

📅 2019 – 2020 📍 Krasnoyarsk

### Laboratory Assistant Researcher

#### Siberian State University of Science and Technology

📅 2018–2019 📍 Krasnoyarsk

## ACTIVITIES

🗨 **Membership:**  
the Optical Society of America (OSA)  
2019-Present

## REFEREES

Advisor: PhD. Alexey A Shcherbakov  
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✉ Department of Nano-Photonics and Metamaterials, ITMO University  
197101, Saint Petersburg, Russia

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✉ SunDensity