

Aleksandra Pavliuk



Work History

Engineer 2022-10 – **current**

ITMO University, Department of Physics and Engineering

- measurements in acoustical waveguide
- modelling in COMSOL & MATLAB

Laboratory assistant 2021-11 – 2022-06

ITMO University, Photonics Faculty

- glass-ceramics synthesis
- temperature measurements of absorbance spectra
- temperature measurements of luminescence spectra

Education

Master of Science 2022-09 – **current**

ITMO University, Department of Physics and Engineering

Major: Advanced Quantum and Nanophotonic Systems

Bachelor of Science 2018-09 – 2022-06

ITMO University, Photonics Faculty

Major: Materials of optical and quantum technologies

Thesis title: Temperature effect on spectral properties of borogermanate glass with perovskite nanocrystals CsPbX₃ (X = Br, I)

GPA: 4.97

Achievements

Selected journal article

- M. Krasikova, **A. Pavliuk**, et al. Broadband noise-insulating periodic structures made of coupled Helmholtz resonators // *APL Materials*, vol. 12, **2024 (IF: 6.635)**

Selected conference proceeding

- **A. Pavliuk**, et al. The influence of structural changes and defects on noise mitigation properties of the periodic structures based on coupled Helmholtz resonators // *INTER-NOISE and NOISE-CON Congress and Conference Proceedings*, vol. 268, pp. 5053-5061, **2023**
- A. Babkina, **A. Pavliuk**, et al. Temperature effect on spectral properties of cesium lead bromide perovskite nanocrystals in borogermanate glass // *Proceedings of SPIE - 2021*, Vol. 11772, pp. 117721M

Awards

- **Grant** from Committee on Science and Higher Education of Saint Petersburg, 2022
- **Best Poster:** GlasSP2021

Contact

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ResearchGate

[profile](#)

Google Scholar

[profile](#)

Software

Origin



Mathcad



COMSOL Multiphysics



MATLAB



Languages

Russian

C2 (native)

English

C1

German

B1