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EDUCATION

Graduate school <i>Optics</i> School of Physics and Engineering, ITMO University	Sep. 2021 – Present Saint Petersburg, Russia
Master of Science <i>Nanophotonics and metamaterials</i> School of Physics and Engineering, ITMO University	Sep. 2019 – Aug. 2021 Saint Petersburg, Russia
Master of Science <i>Physics, Photonics and Nanotechnology</i> Université de Bourgogne Franche-Comté	Sep. 2020 – Jun. 2021 Dijon, France
Bachelor of Science (magna cum laude) <i>Laser Technologies</i> ITMO University	Sep. 2015 – Jun. 2019 Saint Petersburg, Russia

WORK EXPERIENCE

Engineer School of Physics and Engineering, ITMO University	Oct. 2019 – Present Saint Petersburg, Russia
Quality engineering technician (internship) Open Joint Stock Company Scientific and Production Corporation of Precision Instruments Engineering	Feb. 2018 – Mar. 2018 Saint Petersburg, Russia

PUBLICATIONS

Coherent two-beam steering of delocalized nonlinear photoluminescence in a plasmon cavity

Dell'Ova F, Shakirova D., Brule Y., Moreaud L., Colas-des-francs G., Dujardin E., Bouhelier A.

Optics Express, 30, 10, 17517-17528, 2022, [IF: 4.12, SJR: 1.233]

DOI: 10.1364/OE.456599

Generalized Kerker effect in dielectric antennas for enhanced backscattering modulation

Shakirova D., Dobrykh D., Krasikov S., Mikhailovskaya A., Yusupov I., Slobozhanyuk A., Ladutenko K., Filonov D., Bogdanov A., Ginzburg P.

Journal of Physics: Conference Series, 2015, 1, 012136, 2021

DOI: 10.1088/1742-6596/2015/1/012136

Miniaturized all-angle accessible RIFD tag

Mikhailovskaya A., Yusupov I., Dobrykh D., Krasikov S., Shakirova D., Bogdanov A., Filonov D., Ginzburg P.

Journal of Physics: Conference Series, 2015, 1, 012092, 2021

DOI: 10.1088/1742-6596/2015/1/012092

Superscattering for non-spherical objects

Krasikov S.D., Odit M.A., Dobrykh D.A., Yusupov I.M., Mikhailovskaya A.A., Shakirova D.T., Shcherbakov A.A., Slobozhanyuk A.P., Ginzburg P.B., Filonov D.S., Bogdanov A.A.

Journal of Physics: Conference Series, 2015, 1, 012073, 2021

DOI: 10.1088/1742-6596/2015/1/012073

Anapole-enabled RFID security against far-field attacks

A. Mikhailovskaya, D. Shakirova, S. Krasikov, I. Yusupov, D. Dobrykh, A. Slobozhanyuk, A. Bogdanov, D. Filonov, P. Ginzburg

Nanophotonics, 10, 17, 4409-4418, 2021, [IF: 8.449, SJR: 2.717]

DOI: 10.1515/nanoph-2021-0394

Erratum: Multipolar engineering of subwavelength dielectric particles for scattering enhancement
S.D. Krasikov, M.A. Odit, D.A. Dobrykh, I.M. Yusupov, A.A. Mikhailovskaya, D.T. Shakirova, A.A. Shcherbakov,
A.P. Slobozhanyuk, P.B. Ginzburg, D.S. Filonov, A.A. Bogdanov
Physical Review Applied, 16, 3, 039901 [IF: 4.985, SJR: 1.883]
DOI: 10.1103/physrevapplied.16.039901

Omnidirectional miniature RFID tag

A. Mikhailovskaya, I. Yusupov, D. Dobrykh, S. Krasikov, D. Shakirova, A. Bogdanov, D. Filonov, P. Ginzburg
Applied Physics Letters, 119, 033503, 2021, [IF: 3.791, SJR: 1.182]
DOI: 10.1063/5.0054740

High-Permittivity Ceramic Tags Miniaturization for Long-Range RFID Applications

Dobrykh D.A., Yusupov I.M., Mikhailovskaya A.A., Krasikov S., Shakirova D., Bogdanov A.A., Slobozhanyuk A.P.,
Filonov D.S., Ginzburg P.B.
15th European Conference on Antennas and Propagation (EuCAP), 2021
DOI: 10.23919/eucap51087.2021.9411439

Multipolar Engineering of Subwavelength Dielectric Particles for Scattering Enhancement

S. Krasikov, M. Odit, D. Dobrykh, I. Yusupov, A. Mikhailovskaya, D. Shakirova, A.A. Shcherbakov,
A. Slobozhanyuk, P. Ginzburg, D. Filonov, A. Bogdanov
Physical Review Applied, 15, 024052, 2021, [IF: 4.371, SJR: 1.697]
DOI: 10.1103/physrevapplied.15.024052

Multipole engineering for enhanced backscattering modulation

D. Dobrykh, D. Shakirova, S. Krasikov, A. Mikhailovskaya, I. Yusupov, A. Slobozhanyuk, K. Ladutenko, D. Filonov,
A. Bogdanov, P. Ginzburg
Physical Review B, 102, 195129, 2020, [IF: 3.575, SJR: 1.811]
DOI: 10.1103/physrevb.102.195129

Long-range miniaturized ceramic RFID tags

D. Dobrykh, I. Yusupov, S. Krasikov, A. Mikhailovskaya, D. Shakirova, A. Bogdanov, A. Slobozhanyuk, D. Filonov,
P. Ginzburg
IEEE Transactions on Antennas and Propagation, 69, 3125-3131, 2020, [IF: 4.371, SJR: 1.697]
DOI: 10.1109/tap.2020.3037663

Compact ceramic resonators for RFID applications

Dobrykh D.A., Yusupov I., Krasikov S.D., Mikhailovskaya A., Shakirova D., Bogdanov A.A., Slobozhanyuk A.P.,
Filonov D.S.
AIP Conference Proceedings, 2300, 020023, 2020, [SJR: 0.190]
DOI: 10.1063/5.0031922

CONFERENCES AND PRESENTATIONS

- | | |
|--|------------|
| CD enhancement of a layer of chiral molecules using BICs
XI Young Scientists Congress 2022, ITMO University | April 2022 |
| Generalized Kerker effect in dielectric antennas for enhanced backscattering modulation
METANANO | May 2021 |
| Generalized Kerker effect in dielectric antennas for enhanced backscattering modulation
International Conference for Young Professionals in Physics and Technology
Comment: The best report in the section of Optics and Photonics | April 2021 |
| The use of Generalized Kerker effect in dielectric antennas
63rd All-Russian Scientific Conference of MIPT
Comment: The best oral presentation in the section of radiophysics, wave processes,
radio-electronic information systems | Nov. 2020 |
| Generalized Kerker effect in dielectric antennas for enhanced backscattering modulation
Microwave Seminar at The Department of Physics and Engineering, ITMO University | Nov. 2020 |

Antibacterial properties of nanoparticles produced by laser ablation in a liquid

April 2019

Congress of Young Scientists, ITMO University

Comment: Winner of the paper competition for admission to the magistracy

SCIENTIFIC SCHOOLS

Summer school of Photonics of 2D Materials

July 2021

ITMO University

Summer school on Nanophotonics and Metamaterials

June 2020

ITMO University

International winter school in Semiconductor Physics

February 2020

Ioffe Institute

SCHOLARSHIPS AND GRANTS

Competition of grants for students and graduate students of St. Petersburg universities

2022

Scholarship, Committee for Science and Higher School of the Administration of St. Petersburg

Research work of masters and graduate students

2021

Grant, ITMO University

HONORS AND AWARDS

Young Scientists of ITMO University

2021

TEACHING EXPERIENCE

Optics of metal nanostructures (assisting)

Spring semester 2022

School of physics and engineering

ITMO University

SKILLS

Languages: Russian (Native), English (Upper-Intermediate)

Computer Skills: COMSOL Multiphysics, Python, MATLAB, Mathematica, Linux

Document Creation: LaTeX