Koromyslov Sergei

Date of birth: 18 July 1998

Mob. phone +79218690079

Email: sergej.koromyslov@metalab.ifmo.ru

Address: Kupchinskaya st. 36, 133, St. Petersburg, 192283, Russian Federation

My research areas include resonant metal-dielectric nanostructures, metasurfaces, femtosecond laser action, broadband photoluminescence, dewetting of thin films, laser printing. This investigation can be useful for developing a new class nanoscale metal-dielectric nanostructure, which would be a source of broadband (white) radiation. I took a part of «Science week SPbPU» conference and winter school «Generation 4.0» based on Peter the Great St. Petersburg Polytechnic University (SPbPU).

**Education background**

|  |  |
| --- | --- |
| Name of organization: Peter the Great St. Petersburg Polytechnic University (SPbPU)Contact data: Russian Federation, 195251, St. Petersburg, Polytechnicheskaya 29, international office +7(812) 534-10-02Website: https://english.spbstu.ru/Degree of education: BachelorTitle of direction: 03.03.02 Physics Title of thesis: «The effect of ultrafast laser induced heating on the indirect-exchange coupling of the RKKY in the Curie switch structures»Graduation date: 31.08.2020 | September 2016 –August 2020 |
| Name of organization: ITMO University Contact data: Russian Federation, 199034, St Petersburg, Birzhevaya line, 16, office 538, phone: +7 (812) 607-02-61Website: https://en.itmo.ruDegree of education: MasterTitle of direction: 16.04.01Technical physics Title of thesis: « Laser-induced white light sources based on an ordered array of metal-dielectric (hybrid) nanoparticles» | September 2020 –Present time |

**Research experience**

|  |  |
| --- | --- |
| Title: Laboratory assistantWorkplace: Ferroic Physics Laboratory (Ioffe Institute)Contact data: Russian Federation 194021, St Petersburg, Politekhnicheskaya 26, phone: +7(812) 297-22-45Duties: I participated for creation optical setup, processed and analyzed the results | October 2018 – June 2020  |

|  |  |
| --- | --- |
| Title: Research fellowWorkplace: Department of Physics, ITMO UniversityContact data: Russian Federation, 199034, St Petersburg, Birzhevaya line, 16, office 538, phone: +7 (812) 607-02-61Duties: My responsibilities include fabricating particles by dewetting methods, measurements of photoluminescence and Raman scattering, processing and interpreting the data obtained. | September 2020 – Present time |
|  |

**Oral presentation**

1. Determination of the value of the indirect-exchange coupling RKKY interaction by the method of magneto-optical polarimetry in the Curie switch structure Fe/(FeCr)/Fe.

S. V. Koromyslov, L. A. Shelukhin, A. M. Kalashnikova, A. F. Kravets

*XLII «Week of Science SPbPU» (2019)*

**List of published and accepted journal papers**

1. Ponkratova, E., Ageev, E., Komissarenko, F., Koromyslov, S., Kudryashov, D., Mukhin, I., ... & Zuev, D. (2021, April). Femtosecond Laser Fabrication of Hybrid Metal-Dielectric Structures with Nonlinear Photoluminescence. In Photonics (Vol. 8, No. 4, p. 121). Multidisciplinary Digital Publishing Institute.

**Additional information**

Language: English B1

Computer skills: MS Office, MATLAB, Python, CST, Wolfram Mathematica

**Reference**

Ageev Eduard, postdoc, Russian Federation, 191002, St. Petersburg, Lomonosov street, 9, «Saturn», tel. mob. +79213821905