

The Winners of the 6th International School and Conference "Saint-Petersburg OPEN 2019" on Optoelectronics, Photonics, Engineering and Nanostructures

1. Olga Tomilina

Structural and phase transformations in ultrathin Au films during thermal-activated granulation

V.I. Vernadsky Crimean Federal University

2. Tatyana Smolyarova, A. Lukyanenko, A. Tarasov, L. Shanidze, M. Rautskii, I. Bondarev, N. Volkov

Biosensors based on nanowire field effect transistors with Schottky contacts

Federal Research Center Krasnoyarsk Science Center of the Siberian Branch of the Russian Academy of Sciences

3. Aleksandr Klimov, M. Remennyi, T. Lukhmyrina

Substrate-removed InAs/InAsSbP photodiode arrays

Peter the Great St. Petersburg Polytechnic University

4. Irina Merkulova, E. Baranov, A. Zamchiy

Study of oxygen content in amorphous silicon suboxide thin films

Institute of Thermophysics SB RAS

5. Petr Lazarenko, S. Kozyukhin, Y. Vorobyov, M. Smayev, Y. Sybina, E. Kitsyuk, A. Sherchenkov

Laser-induced modification and formation of periodic surface structures of amorphous Ge₂Sb₂Te₅ thin films

National Research University of Electronic Technology

6. Alina Osychenko, A. Zalessky, A. Shakhov, A. Astafiev, M. Syrchina, V. Nadtochenko

The method of intracellular tracking particle in vivo creation with femtosecond laser pulses

Semenov Institute of Chemical Physics

7. Yury Polikarpov, A. Romashkin, N. Struchkov, G. Silakov, V. Petukhov, D. Levin, V. Nevolin

Highly hydrophilic and stable polylactic acid surface achieved by argon plasma treatment

National Research University of Electronic Technology

8¹. Alexandra Toropova, M. Fokina

Shellac hologram

ITMO University

¹ Also the winner of the SPb Photonic, Optoelectronic, & Electronic Materials SPb-POEM

9. George Zograf, M. Petrova, M. Petrov, P. Belov, F. Komissarenko, E. Makarova, A. Pushkarev, P. Tonkaev, P. Ghosh, Q. Li, M. Qiu, S. Makarov, M. Zyuzin

Semiconductor resonant all-optical temperature sensor and thermal release trigger of encapsulated anti-cancer drugs for in vitro studies Cell-Substrate Lift-Off Lithography

ITMO University

10. Daniil Stupin, N. Filatov, E. Kuzina, A. Bukatin

Cell-Substrate Lift-Off Lithography

St. Peterburg Academic University

11. Roman Salii, V. Evstropov, S. Mintairov, M. Mintairov, M. Shvarts, N. Kalyuzhnyy

In_{0.8}Ga_{0.2}As quantum dots in GaAs photovoltaic convertors: characterization of optical and physical properties

Ioffe Institute RAS

12. Aleksandr Saushin, V. Styapshin, Y. Svirko, G. Mikheev

Shapes of polarization sensitive photocurrent pulses in Ag/Pd nanocomposite films: influence of burning temperature

Udmurt Federal Research Center of the UB RAS

13. Joanna Gorbunova, N. Bezverkhii, Y. Beltukov, M. Sasin, O. Vasyutinskii

The polarized two-photon excited fluorescence of NADH in solution of different viscosity and polarity

Saint Petersburg Academic University of the Russian Academy of Sciences

14. Ramil Minnullin, M. Barabanenkov, A. Italyantsev

Total reflection of near infrared range wave from subwavelength silicon 1D photonic crystal with small packing density

Moscow Institute of Physics and Technology (State University)

15. Maksim Miropoltsev, Y. Gromova, V. Smelov, A. Tkach, V. Maslov

Spectroscopic study of defect states in CdSe nanoplatelets, ITMO University

16. Maria Moshkova, P. Morozov, A. Divochii, Y. Vakhtomin, K. Smirnov

Large active area superconducting single photon detector, Higher School of Economics

17. Dmitrii Salimgareev, A. Lashova, A. Lashova, A. Lashova

Simulation of infrared photonic crystal fibers based on crystals system AgBr – TlBr_{0.46}I_{0.54}

Ural Federal University named after the first President of Russia B.N. Yeltsin

18. Maksim Chernov, A. Lyapin, S. Gushchin, A. Ermakov, P. Ryabochkina, A. Kuzmin

Development of efficient polymer films with upconversion particles

National Research Mordovia State University

19. Maxim Lednev, D. Dovzhenko, Y. Rakovich, I. Nabiev

Numerical modelling of the spectral and spatial distribution of the electromagnetic modes in a tunable microcavity for investigation of the light-matter interaction

National Research Nuclear University MEPhI

20. Matin Ashurov, E. Eremina, S. Klimonsky

Synthesis of SiO₂@Ag core-shell photonic crystals for SERS application

Lomonosov Moscow State University

21. Andrei Kudriashov, L. Klyachkin, A. Malyarenko, V. Romanov, S. Rykov, N. Bagraev, A. Nashchekin

The effect of nano-inclusions on the magnetic properties of thin YBa₂Cu₃O_{7-δ} films

Peter the Great St.Petersburg Polytechnic University

22. Kirill Khabarov, V. Ivanov, D. Kornushin, B. Masnaviev, A. Efimov

Laser sintering of silver nanoparticles deposited by dry aerosol printing

Moscow Institute of Physics and Technology

23. Alexey Markin, N. Markina, A. Danchuk, A. Zakharevich

Synthesis, Raman enhancement, and chemical stability of CaCO₃ microparticles with copper coating

Saratov State University

24. Bogdan Borodin, P. Alekseev, M. Dunaevskiy, V. Khayrudinov, H. Lipsanen

Analysis of doping distribution in horizontal GaAs nanowires with axial p-n junction by the conductive atomic force microscopy, Ioffe Institute RAS

25². Tatyana Choban, A. Zhirnov, A. Chernutsky, K. Stepanov, A. Pnirov, G. Galzerano, V. Karasik, C. Svelto

Near Infrared-emitting PbS nanosheets and their lifecycle

Bauman Moscow State Technical University

26³. Tatiana Kormilina, I. Skurlov, S. Cherevko, A. Mudrak, A. Baranov

Φ-OTDR based on tunable Yb-Er:phosphate glass laser, ITMO University

^{2,3} Also the winners of the SPb Photonic, Optoelectronic, & Electronic Materials SPb-POEM