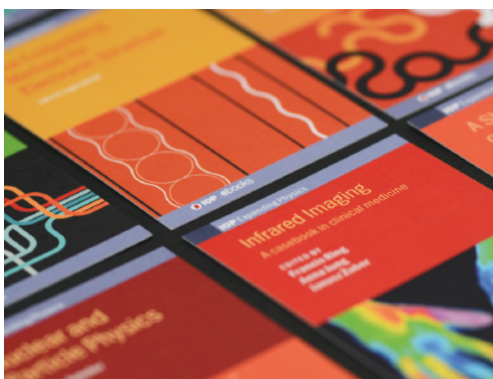


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7th International School and Conference “Saint-Petersburg OPEN 2020” on Optoelectronics, Photonics, Engineering and Nanostructures

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7th International School and Conference "Saint-Petersburg OPEN 2020" on Optoelectronics, Photonics, Engineering and Nanostructures

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7th International School and Conference "Saint-Petersburg OPEN 2020" on Optoelectronics, Photonics, Engineering and Nanostructures was held on April 27 - 30, 2020. The Organizer of the conference is the Alferov Federal State Budgetary Institution of Higher Education and Science Saint Petersburg National Research Academic University of the Russian Academy of Sciences. Initially, the School and Conference was supposed to be held in full-time format at the Alferov Academic University (Saint-Petersburg, Russia), as it happened in the past. However, due to the restrictions imposed by the city authorities on holding mass events due to the threat of the spread of the COVID-19 infection, the conference committees decided to move the conference to the online format. The conference consisted of poster reports presented by the participants and online oral presentations by invited speakers. Posters and video reports of the participants were posted on the conference website. Invited speakers made their presentations online. During their speeches, participants could discuss and ask questions in the chat. The School and Conference included a series of invited talks given by leading professors with the aim to introduce young scientists with actual problems and major advances in physics and technology. The keynote speakers were:

Mikhail Glazov (Ioffe Institute RAS, Russia)

Thomas Maurer (Université de Technologie de Troyes, France)

Yue Wang (University of York, United Kingdom)

Eugene Simon Polzik (University of Copenhagen, Denmark)

Alexander Tagantsev (École polytechnique fédérale de Lausanne, Switzerland)

Sergey Vakhrushev (Ioffe Institute RAS, Russia)

Ivan Mukhin (Alferov University RAS, Russia)

The organizing and editorial/program committee of the SPBOPEN2020 hopes you enjoy the reading of this volume of the JPCS. Besides, we wish to thank all authors and participants for providing their valuable contributions for this proceeding as well as the reviewers for their constructive recommendations and criticism aiding to improve the presented articles.



Likewise, we are confident that this issue will serve as a reference for optics, spectroscopy and photonics research worldwide.

The School and Conference is supported by Russian Foundation for Basic Research, Peter the Great St. Petersburg Polytechnic University, Russian Science Foundation and SPIE. It is a continuation of the annual schools and seminars for youth on topical problems of physics and technology that is organized by the Academic University since 2009.

We invite all the students and young scientists to attend "Saint Petersburg OPEN" in 2021!
More details at <http://spbopen.spbau.com>

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