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**Alexander A. Dreischuh
Tony Spassov
Isabelle Staude
Dragomir N. Neshev**
Editors

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Introduction

The International Conference on Quantum, Nonlinear and Nanophotonics (ICQNN'2019) and the satellite symposium of Nanomaterials and Nanotechnologies (SNN'2019) were held from 2–5 September 2019 in Sofia, Bulgaria. The conference scope covered the investigation of basic physical phenomena of light interaction with different natural materials and artificial structures, as well as the technological applications of such phenomena, novel devices, instruments, and methods. The topics included quantum and nonlinear optics, nano-optics, and meta-optics. Leading scientists delivered three plenary and 22 invited talks on the newest development in these research areas. The conference and the symposium served as a meeting place for 62 researchers from 15 countries (Australia, Canada, China, France, Germany, Israel, Italy, Kazakhstan, Macedonia, Serbia, Spain, Switzerland, the Netherlands, United States, and Bulgaria).

The host organization was Sofia University St. Kliment Ohridski, the first higher education institution in Bulgaria. The first step towards its foundation was in 1887. For 130 years Sofia University has been the national foremost center for university education and research. Today it is the largest university in Bulgaria with more than 120 degree-programs offered by 16 faculties.

The conference and the symposium were jointly organized by Friedrich-Schiller-Universität Jena (Institut für Angewandte Physik, and Institut für Optik und Quantenelektronik, Jena, Germany), The Australian National University (ANU College of Science, Canberra, Australia), and Sofia University St. Kliment Ohridski (Faculty of Physics and Faculty of Chemistry and Pharmacy, Sofia, Bulgaria). The organizers acknowledge the financial support from the Office of Naval Research Global.

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