

Proceedings of the  
International School and Conference  
on Photonics

PHOTONICA09

Belgrade, Serbia, August 24–28, 2009

Plenary and invited lectures  
and contributed papers

*Editors of the Proceedings:*

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WARSAW

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POLISH ACADEMY OF SCIENCES  
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## Conference Topics

1. Optical materials
2. Metamaterials
3. Photonic crystals
4. Plasmonics
5. Quantum optics
6. Quantum information
7. Ultracold systems
8. Nonlinear optics
9. Lasers and laser spectroscopy
10. Biophysics
11. Optoelectronics and optocommunications
12. Holography

## Preface

This book contains contributions to the 2nd International School and Conference on Photonics, PHOTONICA'09. The meeting features plenary and invited lectures and poster presentations in 12 different topics. Eleven plenary speakers gave lectures during the school part, while seventeen invited talks were presented during the conference part of PHOTONICA'09. There were 112 poster presentations.

PHOTONICA'09 is organized with the goal to promote and disseminate the knowledge of modern and multidisciplinary field of photonics among researchers and students, particularly those working and studying in the South-East region of Europe. The 2nd International School and Conference on Photonics, PHOTONICA'09 has been approved by the European Physical Society (EPS). The Conference was organized by the following members of the University of Belgrade: Institute of Physics, Faculty of Physics, "Vinča" Institute of Nuclear Sciences, Faculty of Electrical Engineering, and Institute of Chemistry, Technology and Metallurgy.

This issue of *Acta Physica Polonica A* is the collection of selected plenary and invited talks and of contributed papers presented at PHOTONICA'09.

Brana Jelenković (*Chairman*)