

## Special Issue

# Basics and Applications in Quantum Optics

### Message from the Guest Editors

The aim of the Special Issue is to collect both theoretical and experimental research papers investigating fundamentals of quantum optical effects and their applications in the context contemporary technologies, with particular emphasis on the pillars of the European Commission Quantum Technologies Flagship. The research topics will (non-exclusively) include the study of fundamentals of quantum mechanics via optical systems (entanglement, nonclassicality criteria), quantum optical state engineering (also involving new detection schemes), light-based quantum communication and quantum cryptography protocols, enhanced metrology, and sensing exploiting quantum optical states, quantum optical integrated circuits, quantum imaging, and light-based quantum biological effects.

### Guest Editors

Dr. Maria Bondani

Dr. Alessia Allevi

Dr. Stefano Olivares

### Deadline for manuscript submissions

closed (10 August 2021)



## Applied Sciences

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*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

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