



## Quantum Optics and Quantum Information Processing 2018

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### Message from the Guest Editor

Dear Colleagues,

Quantum optics studies the behavior and interactions of light and matter in terms of quantum mechanics. Quantum information science deals with the information processing tasks using quantum systems and enables the performance of specific tasks that are unachievable in a classical context. The last two decades have seen the impressive development of these two closely-related fields, both in theory and in experiments. This Special Issue of *Applied Sciences* will focus on new and important results in the field of Quantum Optics and Quantum Information science, as well as comprehensive review on recent key progress in this area. Topics of interest include, but are not limited to, theoretical and experimental research in quantum state engineering, quantum cryptography and communications, quantum imaging and metrology, quantum simulation and computation.

Prof. Dr. Yongmin Li

*Guest Editor*





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## 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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