

## Special Issue

# Advanced Research for Adiabaticity in Optical Waveguides

### Message from the Guest Editor

Since its introduction, the adiabatic theorem has been widely applied in theories and experiments in physics and engineering. In optical waveguides, a large class of devices operate on adiabatic criteria. Adiabatic processes occur slowly enough that the field remains in the same mode throughout the device, even when the mode undergoes significant evolution. These devices are relatively robust, and can have a large bandwidth and fabrication tolerance. Recent advances in optical waveguide technology have led to the miniaturization of photonic components and the further development of adiabatic devices. Moreover, recent efforts in quantum technology have also led to the development of novel optical waveguide devices based on new adiabatic protocols. For this Special Issue, we seek papers covering the latest theoretical and experimental results in this rapidly evolving field.

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### Guest Editor

Prof. Dr. Shuo-Yen Tseng

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### Deadline for manuscript submissions

closed (31 July 2023)



## Applied Sciences

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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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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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