



Modern Applications in Optics and Photonics: From Sensing and Analytics to Communication

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Message from the Guest Editors

Dear Colleagues,

Optics and photonics are among the key technologies of the 21st century and offer the potential for novel applications in areas as diverse as sensing and spectroscopy, analytics, monitoring, biomedical imaging and diagnostics as well as optical communication technology, among others. The high degree of control over light fields possible today, for example, by using micro- and nanooptics together with the tremendous capabilities of modern processing and integration technology enable new optical systems with enhanced functionality and unprecedented sensitivity. Such systems are thus attractive for a wide range of applications previously not accessible and may ultimately lead to the democratization of optics and photonics.

This Special Issue aims to provide an overview on some of the most advanced application areas in optics and photonics and indicate the broad potential for the future. Articles covering novel optical systems and their applications are invited to contribute.

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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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