Special Issue

Recent Advances in Ultrafast Laser Pulses

Message from the Guest Editor

Ultrafast laser pulses are widely demanded in the biomedical field and for materials processing because of their large peak power and capability for ultrahighprecision fabrication. The duration of ultrafast laser pulses is typically defined as several tens of femtoseconds to tens of picoseconds. Ultrafast pulses are usually generated by passive mode-locked lasers or optical parametric amplifiers, and can also be obtained by pulse compression using longer pulses. Obtaining stable ultrafast laser pulses and the physical mechanism of pulse formation are very important research issues. Topics to be discussed in this Special Issue include but are not limited to: ultrafast pulse formation in mode-locked lasers or micro-ring resonant cavities, ultrashort pulse generation with pulse compression techniques, interaction of ultrafast laser pulses with materials, nonlinear interactions between ultrashort pulses, supercontinuum generation, and noise and stability of ultrafast laser pulses.

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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