Special Issue

Ultrafast Light-Matter Interaction

Message from the Guest Editor

Intense optical pulses can coherently control dynamic processes in matter, leading to light-induced transformations that have great potential for future technological breakthroughs. There has also recently been great progress in the developement of advanced light sources, like high-harmonic generation (HHG) sources or free-electron lasers. These advances enable us to resolve light-induced processes with unprecendeted time resolution, atomic specificity, and spacial detail. In this Special Issue, we invite submissions exploring the optical control of matter, suggesting methods to follow dynamics with advanced light sources or discussing progress in the development of ultrashort x-rays or extreme ultraviolet pulses. Both theoretical and experimental studies are welcome, as well as review papers.

Guest Editor

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Optics (ISSN 2673-3269) aims at establishing *Optics* as a leading journal for publishing high impact fundamental research and applications in optics field with a fast processing time and high quality service. The journal particularly welcomes both theoretical (simulation) and experimental research within our journal's scope. We encourage scientists to publish their experimental and theoretical results in as much detail as possible. So, there is no restriction on the length or pages of the papers. The full experimental details must be provided so that the results can be reproduced. Electronic files and software regarding the full details of the calculation or experimental procedure, if unable to be published in a normal way, can be deposited as supplementary electronic material.

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