Special Issue

Ultrafast Spectroscopy in Materials Science

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following:

- Femtosecond pump–probe and time-resolved optical spectroscopy.
- Ultrafast electron and X-ray diffraction for structural dynamics.
- Coherent phonon generation and control.
- Photoinduced phase transitions and non-equilibrium states.
- Ultrafast magnetism and spin dynamics.
- Strongly correlated electron systems under ultrafast excitation.

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Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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