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Advances of THz Spectroscopy

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Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

Dear Colleagues,

Important macroscopic properties, from insulation to superconductivity, magnetic properties, and biological functions, originate from collective microscopic excitations. These microscopic excitations are typically found at low energy and can be probed with—and sometimes driven by—terahertz (THz) radiation between ~0.1 and 30 THz. While the THz frequency range was called the "THz gap" because of the few intense sources available, fast-paced technical developments are now filling this important scientific gap. This is not limited to the generation and detection of THz light, but also includes astonishing developments in its manipulation at the nanoscale, by exploiting the sensing and light-confining properties of plasmons. This Special Issue is dedicated to the developments of THz spectroscopy and to the characterization of the electronic, nuclear, and dielectric properties of matter. This includes, but is not limited to, bulk- or surface-sensitive spectroscopy or microscopy techniques, and the investigation of gases, liquids, soft, and solid-state matter. We kindly invite you to contribute to this Special Issue.

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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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