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Applications of Millimeter-Wave and Terahertz Technologies

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Message from the Guest Editors

Dear Colleagues,

Terahertz/millimeter wave is in the transition region from electronics to photonics, and is a new frequency band with great scientific significance and application prospects in the electromagnetic spectrum that needs to be fully explored. Terahertz/millimeter wave has the characteristics of high carrier frequency, large communication capacity, good penetration, low photon energy, and no biological ionization.

Although a series of original research results have been achieved in terahertz/millimeter wave and some application systems have been successfully commercialized, the terahertz/millimeter wave technology and its applications are still seriously constrained by the basic physical and technical problems of high-power signal generation and high-sensitivity signal detection technology. This Special Issue will focus on the research in terahertz/millimeter waves. Through this Special Issue, you will understand the development in the field of terahertz/millimeter wave, and provide reference for your research.

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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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