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# Materials for Sources and Detectors in the GIGA-TERA-MIR and NIR-IR Ranges

Guest Editor:

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Deadline for manuscript submissions:

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## **Message from the Guest Editor**

Dear Colleagues,

Recent advances in sources and detectors in the TERA-MIR (0.3 THz to 10 THz) and mid-infrared (10 THz to 100 THz) fields have shown that there are a large number of applications in physics, electrical engineering technology, applied chemistry, materials sciences, and medicine/biology that would benefit from spectroscopy and imaging with frequencies in both ranges. Even more recently, novel devices in the GIGA range from 0.1 THz to slightly below 0.3 THz, notably in medical diagnostics based on sensitive gas detection and imaging, have made a review of materials, sources, and detectors that can be used for the GIGA-TERA-MIR range as well as the NIR-IR range timely to help to identify common aspects within a synergetic approach. The main emphasis of this Special Issue will be on new fundamental material properties, concepts, and device designs that are likely to open the way for new products or the exploitation of new technologies in the fields of sensing, healthcare, biology, water quality control, and industrial applications. End users are research centers, academic institutions, and wellestablished and start-up companies and hospitals.









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## **Editor-in-Chief**

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# **Message from the Editor-in-Chief**

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