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# Terahertz Metamaterials and Their Applications

Guest Editor:

**Dr. Andrei Gorodetsky**
University of Birmingham, Birmingham, United Kingdom

Deadline for manuscript submissions:
**closed (10 February 2022)**

## Message from the Guest Editor

Terahertz metamaterials have evolved significantly since their first demonstration about 15 years ago. They have emerged as relatively simple metallic structures and have made a long way towards numerous designs and applications. Metamaterials are used as highly susceptible sensors due to the strong resonances they possess. Electrically, optically and mechanically tunable metamaterials have paved the way to ultrafast tunable THz modulators, including highly controllable phase shifters, absorbers, beam steerers and spatial light modulators. Modern trends in the design of metamaterials, and in particular of THz metamaterials, include all-dielectric and phase-change material-based metamaterials and metasurfaces.

It is our pleasure to invite you to submit a manuscript for this Special Issue. Fundamental and applied research on the design, simulation, fabrication, characterisation and applications of terahertz metamaterials will be covered comprehensively, with special focus on dynamic and highly tunable metamaterials, all-dielectric metamaterials and metasurfaces and biomedical applications of terahertz metamaterials.

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**Prof. Dr. Yuguang Ma**
State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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## Contact Us

*Materials* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/materials
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