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# Journal of Infrared, Millimeter, and Terahertz Waves

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## Description

New 2012 Impact Factor 1.120\*The Journal of Infrared, Millimeter, and Terahertz Waves offers a peer-reviewed platform for the rapid dissemination of original, high-quality research in the frequency window from 30 GHz to 30 THz. The topics covered include: sources, detectors, and other devices; systems, spectroscopy, sensing, interaction between electromagnetic waves and matter, applications, metrology, and communications. Manuscripts submitted to the Journal should discuss a significant advancement to the field of infrared, millimeter, and terahertz waves. Manuscripts can be submitted to one of the following categories: Letters: Short articles of particular interest to the community.

The review process will be expedited for this manuscript category.

**Sources:** Including systems based on photoconductive antennas and related techniques, resonant tunnelling diodes, microwave devices, vacuum tube based sources, free electron lasers, synchrotrons, high power microwave sources, gas lasers, quantum cascade lasers and sources relying on parametric down conversion.

**Detectors:** THz detectors, detector arrays or part of detectors such as mixers or antennas.

**Devices:** Modulators, reflectors, filters and waveguides as well as metamaterial-based devices.

**Systems:** Including entire emitter-receiver systems, imaging systems, characterization of systems, but also data extraction algorithms and metrology problems.



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Inside

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Day after day, anisotropic properties of materials are finding new applications. Many consumer technologies based on them are currently available, particularly at optical, near-infrared and ultraviolet frequencies. Liquid crystals are the base of an immense quantity of display devices present in our everyday life ranging from small wrist watches to large television screens, the circular dichroism exhibited by a number of proteins and nucleic acids is providing new information about their molecular structure and biological function. Photonic cells are being used as high speed modulators in optical fibre telecommunications among many other applications. The availability of new technologies to measure the terahertz band opens the possibility to study anisotropic properties of

considerable attention over the last technological period.

This special issue contains the

important aspects of the study of

band. The articles included in the

overview of advances in this field.

1. Review advances in terahertz

and C. J. Jordan from Research

the Technische Universität Bra-

includes instrumental advances

extrinsic of birefringence of materials from time-domain spectroscopic data.

2. Development of THz range ellipsometry by M. Nischel and P. Amthauer from

the University of Tübingen (Germany) and Johns Hopkins University (USA) presents

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Spectroscopy: Interaction between THz waves and all states of matter; includes THz spectroscopy on solids, liquids, gases, and plasmas.

Applications: Manuscripts which discuss possible applications e.g. e.g. for industrial inspection, bio-medical sensing, material science, and communications. Further information and submission guidelines can be found on the journal homepage - <http://www.springer.com/journal/10762>

\*Impact Factor: 1.120 (2012), Journal Citation Reports®, Thomson Reuters

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