



# CALL FOR PAPERS

## Special Issue on Microwave, Millimeter and Terahertz Techniques in Medical, Biological, and Biomedical Engineering

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[\*ASME Journal of Engineering and Science in Medical Diagnostics and Therapy\*](#)

#### Special Issue on Microwave, Millimeter and Terahertz Techniques in Medical, Biological, and Biomedical Engineering

This Special Issue aims to present the recent development of advanced electromagnetics, microwave, millimeter/terahertz techniques for medical, biological, and biomedical applications. Submissions are encouraged of original and high-quality review papers with scopes in state-of-the-art research related to electromagnetic theory, techniques, and integration for medical and biological applications, including but not limited to RF and microwave diagnostic and therapeutic systems; electromagnetic imaging; radiometry and thermography; computational methods for bio-electromagnetics; implantable and wearable diagnostic and therapeutic systems; radar for remote or noninvasive monitoring and tracking; electromagnetic sensors and devices or biomedical applications. The articles will include data from experiments, computational simulations, and/or models.

#### Topic Areas

- **Sources:** Microwave devices, vacuum tube-based sources, free-electron lasers, synchrotrons, gas lasers, quantum cascade lasers
- **Detectors:** THz detectors, microwave antenna and antenna arrays, electromagnetic sensors, radar for remote or noninvasive monitoring and tracking
- **Devices:** Modulators, reflectors, filters, waveguides, metamaterial-based devices, RF ablation therapeutic devices and instruments
- **Systems:** Emitter-receiver systems, imaging systems, RF and microwave integrated circuits, diagnostic and therapeutic systems, implantable and wearable diagnostic and therapeutic systems
- **Spectroscopy:** Interaction between THz waves and all states of matter including THz spectroscopy on solids, liquids, gases, and plasmas
- **Applications:** Human physiological sensing and biomedical imaging, biological analyses, healthcare systems, noninvasive monitoring and tracking, noninvasive medical diagnostic, biomedical sensing, RF ablation therapeutics, pharmaceutical industry
- Computational methods for bioelectromagnetics

#### Publication Target Dates

Paper submission deadline	<b>December 9, 2022</b>
Initial review completed	<b>March 3, 2023</b>
Special Issue publication date	<b>May 2023</b>

#### Submission Instructions

Papers should be submitted electronically to the journal at [journaltool.asme.org](http://journaltool.asme.org). If you already have an account, log in as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal** page, select the [\*ASME Journal of Engineering and Science in Medical Diagnostics and Therapy\*](#) and then select the Special Issue **Microwave, Millimeter and Terahertz Techniques in Medical, Biological, and Biomedical Engineering**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

#### Guest Editors

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