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"This book focuses on biomedical applications of terahertz (THz) waves. THz waves offer advantages due to their low energy (greater safety), long wavelength (higher resolution), and sensitivity to water molecules.

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Terahertz Biomedical Science and Technology | Joo-Hiuk Son ...

This book, edited by Joo-Hiuk Son, sets out to cover the science and technology that underpin the use of terahertz (THz) spectroscopy methods for biomedical applications. The stated aims are to provide a textbook that begins by introducing terahertz waves and then takes the reader through basic THz spectroscopy to the application of THz radiation in biomedical imaging applications.

Book Review: Terahertz Biomedical Science and Technology

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Terahertz Biomedical and Healthcare Technologies: Materials to Devices reviews emerging advances in terahertz biomedical and healthcare technologies, including advances in fundamental materials science research, device design and fabrication, applications, and challenges and opportunities for improved performance. In addition, the improvement of materials, optical elements, and measuring techniques are also explored.

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CW THz phase imaging is mainly based on digital holography, interferometry and ptychography. These systems can obtain the complex amplitude by capturing diffraction patterns and applying numerical reconstruction techniques. Biomedical applications of such THz systems are highlighted.

Terahertz phase imaging and biomedical applications ...

In order to meet the requirements of sustainable growth and development for human beings, biomedical research has been the focus of our attention. Terahertz (THz) is recognized as one

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of the most promising technologies and it has been widely used in biomedicine. A depiction of the basic principle of THz spectroscopy and THz imaging at the beginning of this article, some emerging techniques like THz microfluidic chips and scattering-type scanning near-field THz spectroscopy (S-SNTS) are ...

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Terahertz (THz) waves are electromagnetic waves with frequency in the range from 0.1 to 10 THz. THz waves have

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Terahertz Imaging and Spectroscopy in Cancer Diagnostics ...

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Terahertz Imaging for Biomedical Applications Terahertz biomedical imaging has become an area of interest due to its ability to simultaneously acquire both image and spectral information. Terahertz imaging systems are being

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commercialized, with increasing trials performed in a biomedical setting.

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