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Terahertz Imaging For Biomedical Applications Biomedical Applications of Terahertz (THz) Imaging. (A) THz images of breast cancer tissue diagnosed with poorly differentiated infiltrating ductal carcinoma (IDC). Low-power pathology image shows the macroscopic distributions of IDC, fatty, and fibro. Biomedical Applications of Terahertz Spectroscopy and Imaging Terahertz Imaging for Biomedical Applications: Pattern Recognition and Tomographic Reconstruction presents the necessary algorithms needed to assist screening, diagnosis, and treatment, and these algorithms will play a critical role in the

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... TERAHERTZ IMAGING SYSTEM

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and process used to create images  
of the human body for clinical

purposes (seeking to reveal,  
diagnose or examine disease) or  
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terahertz (THz) electromagnetic  
radiation, commonly referred to as  
THz waves, THz light, or T-rays,... 2.

Pulsed- THz phase imaging. THz  
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... The applications of THz characterization techniques are overviewed by five parts: amino acid and polypeptide, DNA, protein, the detection of cancer, and other applications. The research of THz biological effects mainly concentrates on the effect of THz on the tissue and cells of organisms. Biomedical applications of terahertz technology: Applied ... We demonstrated three possible applications of a THz color scanner in the biomedical field: imaging of pharmaceutical tablets, human teeth, and human hair. The first application showed the scanner's potential in total inspection for rapid quality control of pharmaceutical tablets moving on a conveyor belt. Biomedical

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MAFIADOC.COM Furthermore,  
research continues into  
understanding the origin of contrast  
and how to interpret terahertz  
biomedical images. For this Special  
Issue, we aim to present a series of  
research studies related to THz  
spectroscopy, terahertz imaging,  
and new data processing for

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