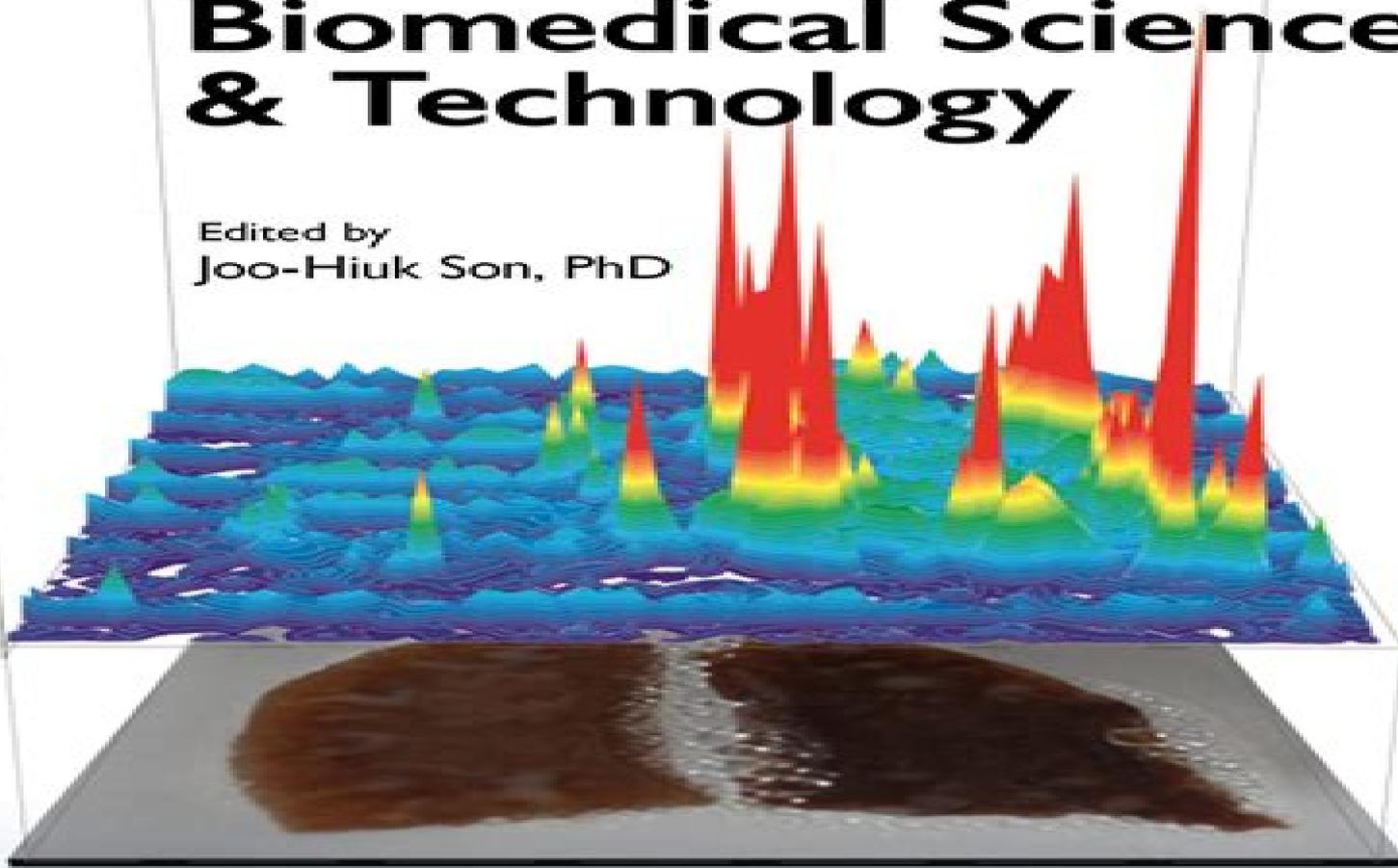


Terahertz

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Edited by
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Terahertz Biomedical Science And Technology

Joo-Hiuk Son



Terahertz Biomedical Science And Technology:

Terahertz Biomedical Science and Technology Joo-Hiuk Son, 2014-06-13 A number of applications including scientific spectroscopy security screening and medical imaging have benefitted from the development and utilization of new and emerging terahertz THz generation and detection techniques Exploring recent discoveries and the advancements of biological behaviors through THz spectroscopy and imaging and the devel Terahertz Biomedical Science and Technology Joo-Hiuk Son, 2014-01-01 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 The book explores the use of THz spectroscopy in elucidating biological behaviors as well as the development of THz wave medical techniques such as skin drug absorption imaging and cancer diagnosis It also includes an overview of THz technology encompassing generation detection and imaging methods Provided by publisher *Convergence of Terahertz Sciences in Biomedical Systems* Gun-Sik Park, Yong Hyup Kim, Haewook Han, Joon Koo Han, Jaewook Ahn, Joo-Hiuk Son, Woong-Yang Park, Young Uk Jeong, 2012-10-19 Recent technological breakthrough in the field of Terahertz radiation has triggered new applications in biology and biomedicine Particularly biological applications are based on the specific spectroscopic fingerprints of biological matter in this spectral region Historically with the discovery of new electromagnetic wave spectrum we have always discovered new medical diagnostic imaging systems The use of terahertz wave was not realized due to the absence of useful terahertz sources Now after successful generation of THz waves it is reported that a great potential for THz wave exists for its resonance with bio molecules There are many challenging issues such as development of THz passive and active instrumentations understanding of THz Bio interaction for THz spectroscopy THz Bio nonlinear phenomena and safety guideline and THz imaging systems Eventually the deeper understanding of THz Bio interaction and novel THz systems enable us to develop powerful THz biomedical imaging systems which can contribute to biomedical industry This is a truly interdisciplinary field and convergence technology where the communication between different disciplines is the most challenging issue for the success of the great works One of the first steps to promote the communications in this convergence technology would be teaching the basics of these different fields to the researchers in a plain language with the help of *Convergence of Terahertz Science in Biomedical Systems* which is considered to be 3 4th year college students or beginning level of graduate students Therefore this type of book can be used by many people who want to enter or understand this field Even more it can be used for teaching in universities or research institutions Terahertz Biomedical and Healthcare Technologies Amit Banerjee, Basabi Chakraborty, Hiroshi Inokawa, Jitendra Nath Roy, 2020-08-11 *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 Other sections cover the design and development of wide bandgap semiconductors for terahertz device applications including their physics device modeling characterization and fabrication concepts Finally the book touches on potential defense medical imaging internet of things and the machine learning applications of terahertz technologies Reviews the latest advances in the fundamental and applied research of terahertz technologies covering key topics in materials science biomedical engineering and healthcare informatics Includes applications of terahertz technologies in medical imaging diagnosis and treatment Provides readers with an understanding of the machine learning pattern recognition and data analytics research utilized to enhance the effectiveness of terahertz technologies

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mixtures processes and the need for new and improved analytical technology

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