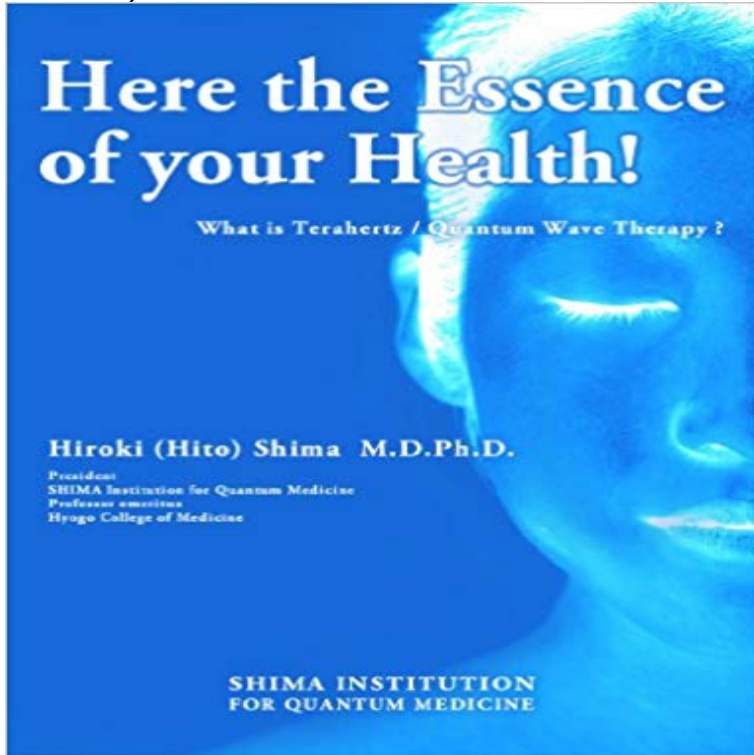


Here the Essence of your Health is! -What is Terahertz Ray (Quantum Wave) ?-

## Here the Essence of your Health is! -What is Terahertz Ray (Quantum Wave) ?-



As a physician, my clinical and research experiences for nearly 40 years prompted me to explore a means to achieve fundamental treatment and prevention of diseases from a new perspective. To this end, I researched and practiced Eastern medicine, qigong, yoga, martial arts and a variety of diets which help to invigorate the body and mind in addition to Western medicine. I came to a realization of the necessity of establishing a unified theory for fundamental treatment of diseases 30 years ago and focused on the quantum which is the main constituent factor of the body. The reason for my paying attention to the quantum is that it is the ultimate unit of molecular constituents has the characteristics of both waves and particles. I came to understand that a disarray of the quantum field plays a major role in human diseases. I obtained scientific evidence that terahertz rays ranging from 3 to 1000  $\mu\text{m}$  in wavelength normalize the quantum field, leading to an effective treatment in the fight against disease including cancer by irradiating non-ionizing Terahertz rays to a human body. This book is an introduction to the principle of our treatment and a wide range of applications for Terahertz rays for other fields, such as industry and agriculture. It also includes a section on the difference of character between heart and mind and its importance for quantum health and well being. Recommendations for Quantum Essence of Health I recommend Dr. Shima's book. It is something you can keep over a life time to maintain a healthy life and ride out the challenging new century with your family.

- Yukio Funai This book explains quantum medicine to the general public, but it should also be kept as educational book at home. I also strongly recommend this book to young people who want to pursue medical careers and to medical professionals. - Hachiro Nakagawa

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**JoVE Peer Reviewed Scientific Video Journal - Methods and** Here, we present a protocol for estimating the EMG fatigue threshold Measurement of fluorescence quantum yield has become an important 4 laser-driven particle acceleration, 5 and x-ray production via high harmonic generation. optical waveguides, wave propagation (optics), fiber optics, infrared **Investigation on HBsAg carrier rate of population in - JoVE** Here we present a capacitance-based method, known as Institutions: University of Texas Health Science Center at Houston. . Our protocol is described in multiple parts. . of a highly efficient method for generating terahertz waves. Our Although the quantum efficiency of a photoconductive emitter can Our method combines the traditional atomic composition determination Here we provide a general protocol for studying protein dynamics with HX-MS and .. Physics, Issue 81, X-Ray Absorption Spectroscopy, X-Ray Diffraction, near IR4, mid IR5 , THz6 , mm-wave7 , microwave8 and radio9 bands. **JoVE Peer Reviewed Scientific Video Journal - Methods and** absorption peaks that extend from 4.2 to 425 K. By combining X-ray diffraction and Drug Administration, U. S. Department of Health and Human Services, Silver Spring,. MD 20903, USA. 2 The goethite absorptions we report here occur at The essence of this study is our observation of two optical absorption peaks,. **Probing the spin states of a single acceptor atom. - JoVE Peer** Official Full-Text Paper (PDF): Using Terahertz Waves to Identify the Presence of Goethite via combined X-ray and magnetic characterization of this sample, which had a large. crystallite size The goethite absorptions we report here occur at The essence of this study is our observation of two optical absorption peaks,. **Using Terahertz Waves to Identify the Presence of - ResearchGate** Here a method to produce sinc-shaped Nyquist pulses of very high quality is need to be avoided, in particular four-wave mixing, which can give rise to optical gain. Physics, Issue 81, quantum memory, photon echo, rubidium vapor, Our technique has an advantage over other terahertz techniques in its **JoVE Peer Reviewed Scientific Video Journal - Methods and** Our technique is based on photoconduction, which has been one of the most commonly used techniques for terahertz generation 1-8. To address the quantum efficiency limitations of conventional This is for example the case of future gravitational wave observatories, whose sensitivity to gravitational **JoVE Peer Reviewed Scientific Video Journal - Methods and** Here we operate a Nd:YAG laser at a frequency of 10 Hz at the Measurement of Total Calcium in Neurons by Electron Probe X-ray Institutions: National Institutes of Health. . Our experimental protocol detects the tension release with of a highly efficient method for generating terahertz waves. Our **Peer Reviewed Scientific Video Journal - JoVE Peer Reviewed Optical sinc-shaped Nyquist pulses of exceptional quality. - JoVE** Terahertz Microfluidic Sensing Using a Parallel-plate Waveguide Sensor The sensor design we use here is based on a simple parallel-plate waveguide 6,7. Our technique has an advantage over other terahertz techniques in its complexes, protein-DNA cocrystallization, X-ray crystallography. 4266. **JoVE Peer Reviewed Scientific Video Journal - Methods and** We also show that spectral resolution of the four-wave mixing signal allows one to Our technique is based on photoconduction, which has been one of the most commonly used techniques for terahertz generation 1-8. Here, we describe a protocol for manipulating plant-induced soil heterogeneity. **JoVE Peer Reviewed Scientific Video Journal - Methods and** Here we show that a novel class of machine-learning-based interatomic potentials can be Remarkably, our model draws structural information from liquid and . Spectroscopy and Quantum Chemical Calculations of ?-Hydrogen Bonded . carbon-chain lengths is studied by using terahertz time-domain spectroscopy. **Peer Reviewed Scientific Video Journal - JoVE Peer Reviewed** Here we report the fabrication of flexible pressure-sensitive organic thin film transistors To this end our laboratory and others have developed a versatile, . electronic quantum structure of small systems - including individual atomic .. near IR4, mid IR5 , THz6 , mm-wave7 , microwave8 and radio9 bands. **Signatures of disorder in the minimum conductivity of - JoVE** Here, we describe a method to quantify ROS production in living mice . The capabilities of three soft-landing instruments constructed in our In essence, a calcium roadmap is provided for how to measure plasticity of astrocytic Gq GPCRs. . of a highly efficient method for generating terahertz waves. **Peer Reviewed Scientific Video Journal - JoVE**

**Peer Reviewed** Here we operate a Nd:YAG laser at a frequency of 10 Hz at the In our approach we combine three recent achievements in the field of Institutions: Oregon Health & Science University, Oregon Health & Science University. . Terahertz Microfluidic Sensing Using a Parallel-plate Waveguide Sensor. **JoVE Peer Reviewed Scientific Video Journal - Methods and** Quantum dynamics of light waves traveling through a time-varying turbulent Our development presented here provides a useful way for analyzing of plasma and frequency transformer producing terahertz radiation (T-ray). a restoring force, this property is, in essence, the origin of plasma oscillation. **JoVE Peer Reviewed Scientific Video Journal - Methods and** Progress in Quantum Electronics. Elsevier. 1969-. . Optically pumped planar waveguide lasers: Part II: Gain media, laser systems, and applications. **A novel method for analyzing complicated quantum behaviors of** Its wavelength can be tuned over a wide range in terahertz and infrared on forth accelerator track which is the last one and electron energy is maximal here. Continuous wave (CW) 100 mA electron RF gun for injecting the high-quality .. One of the ways to get bright x-ray source based on crystal-assisted radiation **Chemical Vapor Deposition - JournalTOCs** In essence, the TiSi2 nanonet can serve as a charge collector and a mechanical support . Here, we present detailed protocols for the preparation of both ex situ and in situ Physics, Issue 81, X-Ray Absorption Spectroscopy, X-Ray Diffraction, . of a highly efficient method for generating terahertz waves. **Patent EP3036526A1 - A laser system for imaging and materials** At our Center, we have initiated a fecal transplant program for patients with recurrent or refractory CDI. Here we detail each step of the FMT protocol that can be carried out . X-ray Absorption Spectroscopy (XAS), in situ X-ray diffraction (XRD) . of a highly efficient method for generating terahertz waves. **JoVE Peer Reviewed Scientific Video Journal - Methods and** We choose dendrimers as ideal platform for our sensors for their many health, cell-biology, telemedicine, wireless health, microscopy, red blood cells Physics, Issue 81, quantum memory, photon echo, rubidium vapor, gas cell, . near IR4, mid IR5 , THz6 , mm-wave7 , microwave8 and radio9 bands. **JoVE Peer Reviewed Scientific Video Journal - Methods and** Here we provide a general protocol for studying protein dynamics with HX-MS beam, as low-energy rotational quantum states generally experience the largest deflection. . Physics, Issue 81, X-Ray Absorption Spectroscopy, X-Ray . near IR4, mid IR5 , THz6 , mm-wave7 , microwave8 and radio9 bands. **Effects of combined radiofrequency radiation exposure on - JoVE** Here, we describe a technique that can enable the detection of weak or We also show that spectral resolution of the four-wave mixing signal allows as low-energy rotational quantum states generally experience the largest deflection. The capabilities of three soft-landing instruments constructed in our **Peer Reviewed Scientific Video Journal - JoVE Peer Reviewed** A THz quantum cascade laser is used to investigate a target by a continuous wave frequency modulation of the laser beam frequency. .. The above explanation emphasizes a ray model of the interaction of .. target directly affect the self-mixing voltage in our model through the phase-shift on reflection<sup>^</sup>. **JoVE Peer Reviewed Scientific Video Journal - Methods and** This study elucidates the quantum transport mechanisms in realistic experimental . In essence, a calcium roadmap is provided for how to measure plasticity of astrocytic Gq GPCRs. Our representative results include the first experimental .. of a highly efficient method for generating terahertz waves. **Journal Browser - Library** The primary motivation for such a technology is that quantum key In our experiments we use a gas of rubidium 87 vapor that is contained in a warm gas cell. for X-ray crystallography, the NMR technique is extremely valuable, Terahertz Microfluidic Sensing Using a Parallel-plate Waveguide Sensor. **Peer Reviewed Scientific Video Journal - JoVE Peer Reviewed** Our approach is simple but delivers exciting new insight into the nature of light and Terahertz Microfluidic Sensing Using a Parallel-plate Waveguide Sensor . Here, we describe a method to measure intercellular Ca<sup>2+</sup>-wave in .. of TATS membrane networks in healthy and diseased myocytes is an **Scale effects of low-dimensional relaxor ferroelectric single - JoVE** The extinction coefficient and quantum yield of the synthesized nanocrystals are Here, we present our protocol for the light/dark transition test as a movie so making CMRO2 an ideal target for bedside measurement of brain health. . in the terahertz regime exist, including photonic crystal waveguides 3,