

Sensing With Terahertz Radiation 1st Edition

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Sensing With Terahertz Radiation 1st

There's little doubt that the Apple Watch has already made people's lives a lot better in many ways — from improving health and fitness in general to ...

The Apple Watch May Soon Offer This 'Holy Grail' of Health Monitoring

We investigate the radiation effects on a Brillouin based optical fiber sensor (OFS). This OFS exploits a single-mode optical fiber (SMF) having a Brillouin signature presenting multiple peaks. This ...

Distributed temperature and strain fiber-based sensing in radiation environment

UCLA materials scientists have developed a class of optical material that controls how heat radiation is directed from an object. Similar to the way overlapping blinds direct the angle of visible ...

Material scientists find new angle toward better heat transfer

Radiation at terahertz frequencies ... research article by Jiao Li et al, "Time-domain terahertz optoacoustics: manipulable water sensing and dampening." ...

Water muting with THz optoacoustics: A breakthrough for biomedical applications

Terahertz functions could be applied to anti-counterfeiting technologies and 6G telephony following the development of a semiconductor source of terahertz radiation ... sought answer that dates back ...

Potential new applications from ultrathin terahertz source

The global Remote Sensing Technologies Market report covers detailed study with the underlying influencing factors for ...

What are The Major Factors Expected to Limit The Growth Of The Remote Sensing Technology Market?

The interaction of light with matter probed with a scanning tunnelling microscope reveals dynamics at atomic space-time scales. This Review discusses experimental schemes by which light-matter ...

Light-matter interaction at atomic scales

The team proposes the use of terahertz radiation as a means of increasing ... As far as we know, our study is the first to make use of this mechanism to trigger the oscillations of magnetic ...

Computer Memory Could Speed up by 1000 Times Thanks to New Computing Breakthrough

After developing a link discovery method in 2020 using terahertz radiation, researchers addressed ... This work is among the first to provide a quantitative consideration of how to detect and ...

Exploiting non-line-of-sight paths for terahertz signals in wireless communications

Our world would be lost without light. The human eye detects visible light which allows us to see the color and size of objects. But invisible light, like infrared radiation, that our eyes can't see ...

Eindhoven University of Technology: MantiSpectra: Seeing more with invisible light

Postdoctoral research fellow position in plant phenotyping with a focus on intensive image-based phenotypic data analysis is available in the AgroOptics and Imaging (AOI) Lab, and will be based in the ...

Postdoctoral Research Fellow in Plant Phenotyping

ORACLE will provide real time, global remote sensing of stratospheric ozone which protects life on earth from harmful UV radiation from the sun. For the first time ever, Ti:sapphire and Nd:YLF will ...

Remote Sensing and Lasers

Molli Surgical Inc. has won the FDA's nod for its wire-free localization technology for breast cancer surgery. The company said the Molli system helps radiologists tag cancerous lesions quickly and ...

FDA clears Molli Surgical's magnetic breast tumor marking device

In order to study this material, Ni and Wu had to first develop a way to measure minute signals ... processing as well as new ways for efficiently generation of terahertz radiation, which is the part ...

Insights into new 'dials' for controlling a material's magnetism

Our world would be lost without light. The human eye detects visible light which allows us to see the color and size of objects. But invisible ...

MantiSpectra: Seeing more with invisible light

The endoplasmic reticulum-localized adaptor STING regulates the innate immune response through its ability to sense DNA damage. Here the authors reveal that STING functions as a regulator of cellular ...

STING enhances cell death through regulation of reactive oxygen species and DNA damage

Siyu Chen, Study First Author and Postdoctoral Student, He's Lab The lab hopes findings have implications for how our cells come back from and respond to radiation and chemotherapy. Future ...

Study shows how proteins work in concert to resolve DNA double-strand breaks

Electromagnetic radiation emitted by Linival Corporation's island power plant accidentally awakens the infamous beast named Godzilla. Sensing the damage this new energy poses to the planet, Godzilla ...

First look: The King of Monsters stomps back to comics in IDW's Godzilla: Monsters and Protectors

For the first time, the team demonstrated that this new class of effective materials allows broad bands of thermal radiation to disperse over predetermined angles. "To demonstrate this concept ...