

Uses of near infrared spectroscopy

Picture harnessing wavelengths that not only soothe sore muscles but also spark healing deep within your cells. As science peels back the layers of the visible and invisible spectrum, you'll ...

Infrared Light and its Applications Infrared light is part of the electromagnetic spectrum and has a longer wavelength than visible light. It is invisible to the human eye, but it can be detected and used to transfer data, ...

Near-infrared light is commonly used in various applications including medical treatments and devices, where its ability to reach deeper tissues can provide benefits like pain ...

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Near-Infrared (NIR) fluorescence imaging is a non-invasive technique that uses light in the near-infrared spectrum to visualize biological structures and processes within the body. This ...

In the realm of photoconversion of CO₂ into high-value chemicals, the importance of near-infrared (NIR) light is gradually gaining recognition. Relative to ultraviolet (UV) and visible light, NIR ...

At a driving current of 60 mA, the near-infrared light radiation power was 7 mW. The experimental results indicate that LiGe₂(PO₄)₃:Cr³⁺ near-infrared phosphor can be used to prepare ...

An improved transformer model was proposed to predict protein content of lablab bean, which combined with NIRS Near-Infrared Reflectance Spectroscopy. Results suggested that the ...

This study introduces the use of optical photothermal infrared microspectroscopy on histological samples as a label-free method to identify and localize microplastics and nanoplastics inside ...

A new bibliometric study published in Infrared Physics & Technology highlights the growing global impact of near-infrared (NIR) spectroscopy in biofuel research, revealing key trends, ...

The scanners use a technology called near-infrared spectroscopy (NIRS), which currently has many applications, from measuring food quality to monitoring blood oxygen levels in the ...

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