The effect of irradiating a light-emitting diode with a laser

Abstract This paper discusses radiation effects in light-emitting diodes (LEDs) and laser diodes in the visible and near infrared region.

The aim of this chapter is to consider how electrical energy is converted into optical radiation using Light Emitting Diodes (LEDs) and Light Amplification by Stimulated Emission of ...

Using different wavelengths of 465 nm (blue light), 525 nm (green light), and 635 nm (red light) LEDs, the researchers attempted to irradiate and ...

The purpose of this study was to investigate the effects of irradiation with light-emitting diodes (LEDs) at different wavelengths on human vascular endothelial cells in vitro.

Thus, this study aimed to investigate the therapeutic effects of LED irradiation with variable wavelengths and its immunomodulatory effects on AD-like skin lesions in a NC/Nga mouse ...

Using different wavelengths of 465 nm (blue light), 525 nm (green light), and 635 nm (red light) LEDs, the researchers attempted to irradiate and inhibit the proliferation of human colon cancer ...

Therefore, in this study, we investigated the effect of the light irradiation method on the anti-microbial efficacy of TONS 504-aPDT. Specifically, we compared the characteristics of light ...

Third, due to quasimonochromaticity (light with a wavelength range of several nanometers) LEDs have target specificity, like a laser. Fourth, hands-free operation is possible because the LEDs ...

Low level laser therapy (LLLT), including coherent and non-coherent light sources, also known as photobiomodulation, is a non-ablative treatment modality that alters cellular biochemical ...

The effects of coherent He-Ne laser and non-coherent light-emitting diode radiation on rat skin wound healing and functional activity of wound excudate leukocytes were compared.

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