Can laser diodes treat viruses

By targeting the mechanical properties of viral capsids, ultrashort pulsed laser treatment represents a unique potential strategy to overcome viral mutational escape, with implications for ...

If far-ultraviolet C light can be delivered practically, it would be effective in killing pathogens like covid-19 on surfaces.

Ultraviolet C (UVC) light is uniquely positioned to achieve inactivation of pathogens. We report the inactivation of SARS-CoV-2 virus by UVC radiation and explore its mechanisms.

Herein we demonstrate the efficacy and feasibility of ultraviolet light-emitting diodes as a means of decontamination by inactivating two distinct virus models, human coronavirus 229E and ...

Irradiation with ultraviolet light-emitting diodes (UV-LEDs) represents a promising method for viral inactivation, but a detailed understanding of the ...

Like the laser technique, UV irradiation kills viruses by breaking down their cell walls. Some ventilation and water-purification systems make use of UV irradiation to eliminate airborne or ...

Different from all these systems, laser light is emerging as a novel option to destroy both viruses and bacteria.

A novel laser method could enable safe and effective treatment of drug-resistant viruses and bacteria, including HIV and methicillin-resistant Staphylococcus aureus.

The aim of this study is to evaluate the antimicrobial effect of a novel technique involving a combination of 445 nm diode laser light with 0.1% riboflavin solution (used as a photosensitizing...

Viral infection can lead to serious illness and death around the world, as exemplified by the spread of COVID-19. Using irradiation rays can inactive virions through ionizing and non-ionizing...

Irradiation with ultraviolet light-emitting diodes (UV-LEDs) represents a promising method for viral inactivation, but a detailed understanding of the wavelength-dependent action spectra ...

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