



UV Solid-State Light Emitters and Detectors (Nato Science Series II:)

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Infrared and visible light LEDs and photodetectors have found numerous applications and have become a truly enabling technology. The promise of solid state lighting has invigorated interest in white light LEDs. Ultraviolet LEDs and solar blind photodetectors represent the next frontier in solid state emitters and hold promise for many important applications in biology, medicine, dentistry, solid state lighting, displays, dense data storage, and semiconductor manufacturing. One of the most important applications is in systems for the identification of hazardous biological agents. Compared to UV lamps, UV LEDs have lower power consumption, a longer life, compactness, and sharper spectral lines. UV LEDs can provide a variety of UV spectra and have shape and form factor flexibility and ruggedness. Using conventional phosphors, UV LEDs can generate white light with high CRI and high efficiency. If quantum cutter phosphors are developed, white light generation by UV LEDs might become even more efficient. Advances in semiconductor materials and in improved light extraction techniques led to the development of a new generation of efficient and powerful visible high-brightness LEDs and we expect that similar improvements will be achieved in solid-state UV technology.

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