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Recent progress of deep UV LED

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Deep UV LEDs (255-350 nm AlGaIn-based UV-LED) have many advantages compare to conventional UV lighting such as mercury lamps. As it is a solid-state technology, it has a customizable emission wavelength, long life time, low voltage operation, instant on/off, it is shock resistant, easy to integrate (design flexibility, simple driving circuits), and ecology friendly (no hazardous substance such as mercury, no ozone production). In addition, in recent years performance of Deep UV LED has increased markedly. At NIKKISO, we have overcome many issues plaguing the industry, like output power and lifetime for UVB (280-320 nm) and UVC (<280 nm) LEDs. In this presentation we will review the technical progress that has been made recently, we will present the DUV lighting solutions of Nikkiso (SMD package, Modules), and we will discuss the potential markets penetration including spectroscopy applications in analytical and life sciences instrumentation.

Biography

Cyril Pernot is working in the compound-semiconductors field since 1997. He received a PhD degree in Physics from the University of Montpellier in 2000 for his work on AlGaIn-based UV-photo-detectors. Since 2007, he is involved in the development of AlGaIn-based UV-LED and he is currently in charge of the crystal growth section at NIKKISO Co., Ltd for the production of UV LED epitaxial wafers.

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