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GaN-based high-power laser diodes. Takao Miyajima a,*, Hiroshi Yoshida a, Katsumori Yanashima a, Takashi Yamaguchi a, Tsunenori Asatsuma a, Kenji Funato a, Shigeaki Hashimoto a, Hiroshi Nakajima a.

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InGaN-BASED LASER DIODES | Annual Review of Materials Research

Abstract Continuous-wave operation of InGaN multi-quantum-well (MQW) structure laser diodes (LDs) has been demonstrated at room temperature with output power up to 50 mW, operating temperature up to 100 C, emission wavelength of 400–420 nm, and a lifetime up to 300 h. InGaN MQW LDs with a lifetime of more than 1000 h are expected soon.

C S AND F P OF InGaN-BASED LASER DIODES

JSAP International No.1 (January 2000) 5 CURRENT STATUS AND FUTURE PROSPECTS OF InGaN-BASED LASER DIODES Shuji NAKAMURA UV InGaN and GaN single-quantum well structure light-emitting diodes (LEDs) were grown on epitaxially laterally over-