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Color centers transient absorption and ultra-short pulse lasing from LiLu0.7Y0.3F4:Ce³⁺ active medium

Farukhshin I., Nizamutdinov A., Semashko V., Korableva S., Marisov M. *Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

Abstract

© 2016 IEEE.We have obtained the single pulse laser oscillation with 400 ps pulse duration at 311 nm from LiLu0.7Y0.3F4:Ce3+ crystal was obtained from intracavity loss modulation via pump-induced color centers bleaching. Modulation of intracavity losses is regulated via color centers concentration.

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Keywords

lasers, rare earth materials, ultraviolet sources