Proceedings - 2016 International Conference Laser Optics, LO 2016, 2016, pages R153

Spectroscopic properties of UV active media Ce^{3+}:LiCa1-xSrxAlF6

Shavelev A., Nizamutdinov A., Semashko V., Marisov M.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016 IEEE.Optical absorption spectroscopy studies have shown that mixed crystals Ce3+:LiCa0,2Sr0,8AlF6 grown by Bridgeman technique exhibit more than 3 times higher absorption coefficient compared to Ce3+:LiCaAlF6 sample. An important result is based on the fact that this enhancement was achieved for two types of Ce3+ centers in a multisite Ce:LiSr0.8Ca0.2AlF6 system.

http://dx.doi.org/10.1109/LO.2016.7549672

Keywords

crystal growth, rare earth materials, ultraviolet sources