

Чубенко Е. Б.

Chubenko E. B.

Белорусский государственный университет информатики и радиоэлектроники

Hydrothermal deposition of zinc oxide nanostructures on silicon substrates under different conditions

Chubenko, E. B. Hydrothermal deposition of zinc oxide nanostructures on silicon substrates under different conditions / E. B. Chubenko // Physics, chemistry and applications of nanostructures. Proceedings of International Conference Nanomeeting - 2015 (Minsk, 26 – 29 May 2015). – Singapore, 2015. – P. 269 - 272.

Аннотация: In this paper we investigated hydrothermal deposition of ZnO nanostructures on silicon substrates under different conditions. Correlations between the structural properties of ZnO nanostructures and parameters of hydrothermal deposition process (temperature, process duration) were studied. Photoluminescence spectra of ZnO nanostructures were investigated as well. Optimal conditions of zinc oxide nanostructures arrays deposition for random lasers applications have been determined.

Ключевые слова: zinc oxide, hydrothermal deposition, scanning electron microscopy, photoluminescence.