Optical properties of Nd^{3+} in silica ceramics obtained by the sol-gel method.

Autorzy

Janina Legendziewicz

Wiesław Stręk

Jerzy Sokolnicki

Dariusz Hreniak

V. F. Zolin

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Heavily densified Nd^{3+} doped silica ceramics were obtained by two different sol–gel based methods using distinct pH during gelation. The sample obtained at the higher pH showed more efficient emission. The morphology of the samples obtained was determined. It was found that Nd^{3+} ions form nanosize as well amorphous aggregates. The optical properties of Nd^{3+} doped silica ceramics were investigated.

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