

Room temperature fluorescence and excited state dynamics in the near infrared and visible region of U³⁺ doped LaBr₃ single crystals.

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Streszczenie

Good quality U3C doped LaBr3 single crystals with a 0.1 mol% U3C nominal concentration have been obtained by the Bridgman–Stockbarger method. Luminescence spectra of the crystals were recorded in a wide spectral range at room temperature. Excitation in the 5f26d1 spectral region produced a strong red and near infrared emission.

Słowa kluczowe

U3C doped crystals, Crystal growth, Optical properties, Nonlinear optics, Luminescence

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