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Analysis of nonlinear optical materials properties by simple powder technique

Morozov O., Naumov A., Lovchev A., Garipov M.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. The article describes a simple technique for comparative analysis of the second harmonic generation properties of new samples and etalon materials by their powders. The effectiveness of the method was tested and measuring of nonlinear coefficient and damage threshold of the well known materials: KDP, LiIO₃, m-nitroaniline was demonstrated. The parameters of the new promising nonlinear material DNPAP were measured.

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