Probing optical near-fields with photoreactive azo-polymers

Dmitrieva M., Asadullina A., Salakhov M.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

In this work, we demonstrate a method to visualize optical near-fields on photosensitive azo-polymer thin films with scanning near-field optical microscopy. A near-field intensity profile is determined in a basis of surface deformations of the azo-polymer thin film exposed to linearly polarized light.

http://dx.doi.org/10.1088/1742-6596/859/1/012006

References