

Nonlinear optical properties of functionalized DNA

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Auteur	Rau, Ileana [1], Krupka, Oksana [2], Grote, James-G. [3], Kajzar, Franois [4], Sahraoui, Bouchta [5]
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R�sum� en anglais	Third-order nonlinear optical properties of functionalized deoxyribonucleic acid (DNA) are studied by optical third harmonic generation at 1 0642 nm fundamental wavelength. The studies were performed on thin films of DNA-CTMA and DNA-CTMA doped with a charge transfer molecules DR1 and with a cobalt phthalocyanine. They show that DNA, similarly as synthetic polymers, can be used as matrix for highly active NLO chromophores.
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