

Gold nanorods as multifunctional probes in a liquid crystalline DNA matrix

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Streszczenie

We show how a single gold nanorod can serve as a multifunctional probe in an organized DNA matrix. Polarization analysis of two-photon luminescence excited with a femtosecond laser enables imaging of the orientation of a single nanorod, which reports the orientation of DNA strands. Carefully controlled photoinduced heating by the same laser is able to degrade the DNA matrix in a highly localized volume.

Adres publiczny

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<https://www.rsc.org/>