

# Optical manipulation of shape-morphing elastomeric liquid crystal microparticles doped with gold nanocrystals

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We demonstrate facile optical manipulation of shape of birefringent colloidal microparticles made

microparticles were infiltrated with the gold nanocrystals in

bonds and multiphoton excitation self-fluorescence of the LCE, as well as two-photon luminescence signals from gold nanoparticle aggregates.<sup>25</sup>

**laser beam is turned off. This is confirmed by CARS-PM imaging of  $n(r)$  and chemical composition of elastomeric**

