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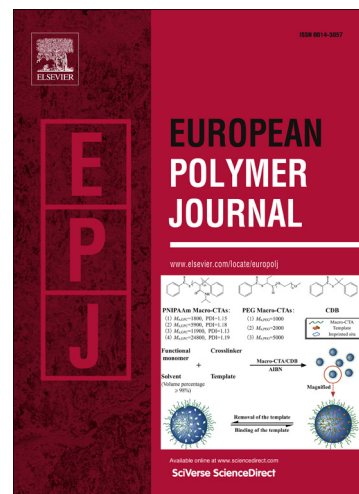
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FABRICATION AND CHARACTERIZATION OF GOLD/ACRYLIC POLYMER NANOCOMPOSITES

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Abstract

We report the method of incorporation of preformed gold nanoparticles (AuNP) into the acrylic polymer (AP) matrices and optical, TEM characterization of AuNP/AP bulk and film composite. It was shown that incorporation of dodecanethiol-covered AuNP can be enhanced in the presence of SiO₂ nanoparticles, enabling at the same time a wider range of tailoring of composite properties for optical processing.

Keywords: *Gold nanoparticle, Acrylic polymer, Nanocomposite.*

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