



Third harmonic generation via dendrimers of four generations

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Résumé en anglais	We report on third harmonic generation of E-O active dendrimers dispersed in polycarbonate matrix. Four kinds of polyester type dendrimers G0, G1, G2 and G3 containing azobenzene in the core used as third order nonlinear optical active chromophores were prepared as guest-host type system based on polycarbonate matrix spin-coated on a glass substrate. Third harmonic generation was measured while exciting the samples with fundamental wavelength 1.064 Åm. Non-linear third-order susceptibility $\hat{\chi}^{(3)}$ for different generations of dendrimers was evaluated.
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