



Third Order Nonlinear Optical Properties of Novel Tetrathiafulvalene-Phenanthroline Based Dyads

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Auteur	El Ouazzani, Hasnaa [1], Iliopoulos, Konstantinos [2], Figà, V. [3], Hudhomme, Piétrick [4], Sahraoui, Bouchta [5]
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Mots-clés	nonlinear absorption [8], tetrathiafulvalene (TTF) [9], Z-scan technique [10]
Résumé en anglais	The non-linear optical properties of pi-conjugated organic molecules such as TTF and their derivatives have recently gained particular interest due to their extended pi-system and the strong electron donating character. The knowledge of the nonlinear optical response, as well as the impact of the charge transfer on the nonlinearity is very important. As such systems can be used in a variety of applications. In this study we investigate the nonlinear absorption of novel tetrathiafulvalene-phenanthroline based dyads by means of the Z-scan technique.
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