

THIRD-ORDER OPTICAL NONLINEARITIES IN RETINAL DERIVATIVES AND MESOIONIC COMPOUNDS

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Organic materials are important to photonic applications due to their fast response times and the possibility of optimizing molecular structures to maximize nonlinear responses [1]. In recent years the possibility of using biological materials in photonic devices has been seriously considered by different authors[2]. In particular, the polarization response and corresponding dynamics of retinal - a molecular structure related to vitamin A - and its derivatives have been subject to intense scrutiny, since this family of molecules plays a prevalent role in photobiological processes. In organic molecules the electronic delocalization due to π electrons result in high (microscopic) hyperpolarizabilities that manifest themselves, macroscopically, as nonlinear susceptibilities. Consequently, the first stage in a search for a promising material is to look for a lead molecule with large hyperpolarizabilities. This is usually done by using a polyene bridging two substituent groups: one, electron-donor, and the other, electron-acceptor. However, in a recent theoretical study, first order hyperpolarizabilities of organic compounds with polyene bridges were compared to mesoionic ones [3] indicating larger values to the later.

In this communication we describe the application of the Z-scan technique to determine the nonlinear refractive index, n_2 , of *13-cis* retinal aldehyde (13CRA), *13-cis* retinoic acid (13CAR), *all-trans* retinal aldehyde (ATRA) and *all-trans* retinoic acid (ATAR), whose molecular structures are shown in Fig. 1. The first application of the Z-scan technique to these materials is reported in Ref. [4]. We also employ the same technique to determine n_2 of seven different mesoionic compounds whose basic structures are shown in Fig. 2 and Table 1. Mesoionic rings are cyclic dipolar structures in which the positive and negative charges are both separated and delocalized within the π electron system. By choosing adequate donor and acceptor substituents, one can obtain high hyperpolarizabilities and, hence, high $\chi^{(2)}$ and $\chi^{(3)}$ values.

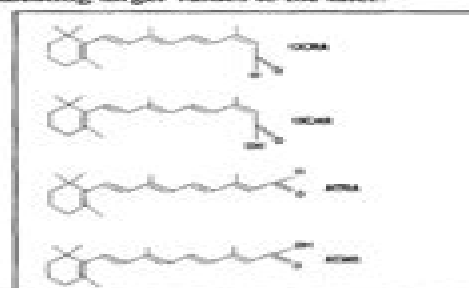


Figure 1



Figure 2

COMPOUND	A	B	Z	R ₁	R ₂	R ₃
MI-1	N	S	S	Ph	Ph	-
MI-2	N	S	S	p-Cl-Ph		-
MI-3	N	S	S	p-F-Ph	Ph	-
MI-4	N	S	S	Ph-vinyl	Ph	-
MI-5	N	S	S	5-NO ₂ -2-furanyl	Ph	-
MI-6	N	S	S	furanyl	Ph	-
MI-7	N	O	O	p-Cl-Ph	H	Ph

Table 1

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ML Yell

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