

Broadband Z-scan characterization using a high-spectral-irradiance, high-quality supercontinuum: erratum

Mihaela Balu,¹ Lazaro A. Padilha,¹ David J. Hagan,^{1,2} Eric W. Van Stryland,^{1,2,*} Sheng Yao,³ Kevin Belfield,³ Shijun Zheng,⁴ Stephen Barlow,⁴ and Seth Marder⁴

¹CREOL and Florida Photonics Center of Excellence, The College of Optics and Photonics, University of Central Florida, 4000 Central Florida Boulevard, Orlando, Florida 32816-2700, USA

²Department of Physics, University of Central Florida, 4000 Central Florida Boulevard, Orlando, Florida 32816, USA

³Department of Chemistry, University of Central Florida, 4000 Central Florida Boulevard, Orlando, Florida 32816, USA

⁴Center for Organic Photonics and Electronics and School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0400, USA

*Corresponding author: ewvs@creol.ucf.edu

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In our previous paper [1], Fig. 9, the nonlinear refractive cross section (δ_r , expressed in $\text{RGM}=10^{-50} \text{ cm}^4 \text{ s}$) shows values of δ_r , three orders of magnitude too small. The corrected Fig. 9 from [1] is presented below:

This results in a maximum figure of merit (text of [1], page 163), δ_r/δ , for sample 1 of approximately unity.

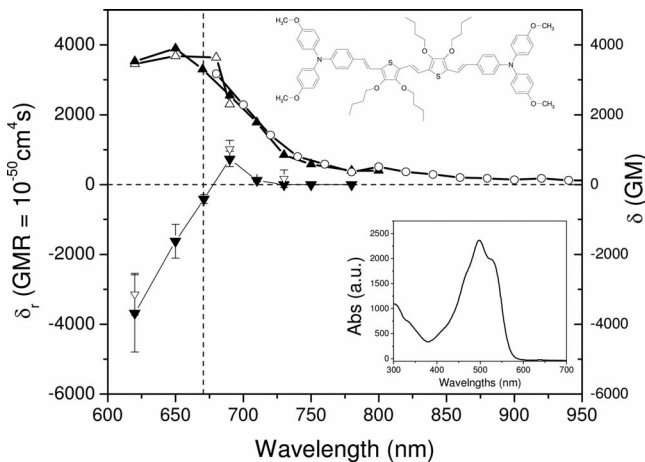


Fig. 1. 2PA spectrum and n_2 dispersion for sample 1 (upper right in figure). \circ , 2PA measured by two-photon fluorescence; \triangle , 2PA via single-wavelength Z scan; \blacktriangle , 2PA via WLC Z scan; \square , nonlinear refraction via single-wavelength Z scan; \blacktriangledown , nonlinear refraction via WLC Z scan. In the insets we show the linear absorption spectrum and the molecular structure.

REFERENCE

1. M. Balu, L. A. Padilha, D. J. Hagan, E. W. Van Stryland, S. Yao, K. Belfield, S. Zheng, S. Barlow, and S. Marder, "Broadband Z-scan characterization using a high-spectral-irradiance, high-quality supercontinuum," *J. Opt. Soc. Am. B* **25**, 159–165 (2008).