



Study of Two-Photon absorption in Organic Materials by thermal lensing and nonlinear transmission measurements

Submitted by Emmanuel Lemoine on Thu, 02/06/2014 - 10:57

Titre	Study of Two-Photon absorption in Organic Materials by thermal lensing and nonlinear transmission measurements
Type de publication	Communication
Type	Communication avec actes dans un congrès
Année	2010
Langue	Anglais
Titre du colloque	Linear and Nonlinear Optics of Organic Materials X
Titre des actes ou de la revue	Proceedings of SPIE-The International Society for Optical Engineering
Volume	7774
Auteur	Derbal-Habak, Hassina [1], Taouri, A. [2], Sylla, Mamadou [3], Hudhomme, Piétrick [4], Mountasser, R. [5], Nunzi, Jean-Michel [6]
Pays	Etats-Unis
Ville	San Diego
ISBN	978-0-8194-8270-9
Résumé en anglais	Experimental investigations of two-photon absorption (TPA) cross-section using nonlinear transmission (NLT) and a new pump-probe mode-mismatched thermal lens (TL) scheme, in the picosecond regime are reported. Both methods are used in a prospect of comparison. Values of the TPA coefficient and cross-section in perylenediimide derivatives (PDI) at 532 nm and 1064 nm wavelengths are given.
Notes	08/2010
URL de la notice	http://okina.univ-angers.fr/publications/ua2575 [7]
DOI	10.1117/12.862263 [8]

Liens

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- [8] <http://dx.doi.org/10.1117/12.862263>

Publié sur *Okina* (<http://okina.univ-angers.fr>)