



Study of multiphoton absorption processes in a perylenediimide derivative using thermal lensing technique

Study of multiphoton absorption processes in a perylenediimide derivative using thermal lensing technique

Submitted by Emmanuel Lemoine on Wed, 10/29/2014 - 11:48

Titre	Study of multiphoton absorption processes in a perylenediimide derivative using thermal lensing technique Study of multiphoton absorption processes in a perylenediimide derivative using thermal lensing technique
Type de publication	Article de revue
Auteur	Taouri, A. [1], Derbal-Habak, Hassina [2], Mountasser, R. [3], Girtan, Mihaela [4], Stanculescu, Anca [5], Sylla, Mamadou [6]
Type	Article scientifique dans une revue à comité de lecture
Année	2010
Langue	Anglais
Date	2010
Numéro	1
Pagination	83 - 85
Volume	4
Titre de la revue	Optoelectronics and Advanced Materials-Rapid Communications
ISSN	1842-6573
Résumé en anglais	Two multiphoton absorption processes were revealed in a perylenediimide derivative, at the wavelength of 1064 nm, by using the thermal lens technique. One of the observed multiphoton processes is two photon absorption (TPA) while the second is a four photons process. The value of the measured TPA coefficient is $\beta=0.12 \times 10^{-10} \text{ cm W}^{-1}$
URL de la notice	http://okina.univ-angers.fr/publications/ua5224 [7]
Lien vers le document	http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=927&catid=46 [8]

Liens

[1] [http://okina.univ-angers.fr/publications?f\[author\]=9411](http://okina.univ-angers.fr/publications?f[author]=9411)

[2] [http://okina.univ-angers.fr/publications?f\[author\]=3045](http://okina.univ-angers.fr/publications?f[author]=3045)

[3] [http://okina.univ-angers.fr/publications?f\[author\]=9412](http://okina.univ-angers.fr/publications?f[author]=9412)

[4] <http://okina.univ-angers.fr/mihaela.girtan/publications>

[5] [http://okina.univ-angers.fr/publications?f\[author\]=8768](http://okina.univ-angers.fr/publications?f[author]=8768)

[6] <http://okina.univ-angers.fr/m.sylla/publications>

[7] <http://okina.univ-angers.fr/publications/ua5224>

[8] <http://oam-rc.inoe.ro/index.php?option=magazine&op=view&idu=927&catid=46>

