



Coumarin-Containing Polymers for High Density Non-Linear Optical Data Storage

Submitted by Denis Gindre on Mon, 04/18/2016 - 15:06

Titre	Coumarin-Containing Polymers for High Density Non-Linear Optical Data Storage
Type de publication	Article de revue
Auteur	Gindre, Denis [1], Iliopoulos, Konstantinos [2], Krupka, Oksana [3], Evrard, Marie [4], Champigny, Emilie [5], Sallé, Marc [6]
Pays	Suisse
Editeur	Molecular Diversity Preservation International
Ville	Bâle
Type	Article scientifique dans une revue à comité de lecture
Année	2016
Langue	Anglais
Date	2016
Numéro	2
Pagination	147
Volume	21
Titre de la revue	Molecules
ISSN	1420-3049
Mots-clés	optical data storage; coumarin; two-photon absorption; second harmonic generation [7]
Résumé en anglais	Optical data storage was performed with various thin polymer films containing coumarin-based derivatives and by using femtosecond laser pulses as well as two-photon absorption processes. Exploring the photodimerization attribute of coumarin derivatives and using appropriate irradiation wavelengths, recording/erasing processes could be carried out in the same area. Second harmonic generation microscopy was used to read the stored information.
URL de la notice	http://okina.univ-angers.fr/publications/ua14573 [8]
DOI	10.3390/molecules21020147 [9]
Lien vers le document	http://www.mdpi.com/1420-3049/21/2/147/pdf [10]
Titre abrégé	Molecules

Liens

- [1] <http://okina.univ-angers.fr/denis.gindre/publications>
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=2818](http://okina.univ-angers.fr/publications?f[author]=2818)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=2668](http://okina.univ-angers.fr/publications?f[author]=2668)
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[7] [http://okina.univ-angers.fr/publications?f\[keyword\]=20857](http://okina.univ-angers.fr/publications?f[keyword]=20857)

[8] <http://okina.univ-angers.fr/publications/ua14573>

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