

Optical limiting efficiency of an electroactive bis- iminopyridine ligand and its zinc complex

Submitted by Abdelkrim El-Gh... on Fri, 03/10/2017 - 17:25

Titre	Optical limiting efficiency of an electroactive bis-iminopyridine ligand and its zinc complex
Type de publication	Article de revue
Auteur	Guezguez, Imen [1], Hjiri, M. [2], Iliopoulos, Konstantinos [3], El-Ghayoury, Abdelkrim [4], Belmabrouk, Hafed [5], Karpierz, Miroslaw A. [6], Sahraoui, Bouchta [7]
Editeur	Photonics Society of Poland
Type	Article scientifique dans une revue � comit� de lecture
Ann�e	2016
Langue	Anglais
Num�ro	1
Pagination	5-7
Volume	8
Titre de la revue	Photonic Letters of Poland
ISSN	2080-2242
R�sum� en anglais	<p>An electroactive based bis-iminopyridine ligand has been synthesized by a condensation reaction between (4-(6,7-dimethyldithio-tetrathiafulvalene)-aniline) with 2,6-diformylpyridine. The complexation of this ligand with ZnCl₂ afforded a tetrahedral neutral Zinc metal complex. Nonlinear optical measurements of these structures have given good results in picosecond regime. The nonlinear absorption of the ligand was significantly enhanced upon complexation with ZnCl₂. This prompted us to conduct the experiment of optical limiting at wavelength 532nm. The nonlinear absorption properties of these structures were studied and compared to the reference material C60.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua15730 [8]
DOI	10.4302/plp.2016.1.03 [9]
Lien vers le document	http://photonics.pl/PLP/index.php/letters/article/view/628 [10]

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[9] <http://dx.doi.org/10.4302/plp.2016.1.03>

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