



## NLO properties of polythiophenes galvanostatically electrodeposited on ITO glasses

Submitted by Emmanuel Lemoine on Tue, 02/04/2014 - 16:13

Titre	NLO properties of polythiophenes galvanostatically electrodeposited on ITO glasses
Type de publication	Article de revue
Auteur	Figà, V. [1], Luc, Jérôme [2], Baitoul, M. [3], Sahraoui, Bouchta [4]
Type	Article scientifique dans une revue à comité de lecture
Année	2008
Langue	Anglais
Date	2008
Numéro	8
Pagination	2123 - 2128
Volume	10
Titre de la revue	Journal of Optoelectronics and Advanced Materials
Mots-clés	NLO properties [5], Polythiophenes [6], SHG [7], THG [8] A study of nonlinear optical properties of ClO <sub>4</sub> -doped polythiophenes, galvanostatically electrodeposited on ITO glasses, was carried out using second and third harmonic generation measurements. The effect of the oxidation state of the polymeric films was studied by comparing the nonlinear optical response of oxidised and reduced polythiophenes. Reduced polymeric films show higher values of the second and third order susceptibilities and a lower absorbance in respect to the oxidised ones. The morphology of the polythiophene films was studied by scanning electron and atomic force microscopes.
Résumé en anglais	
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua1998">http://okina.univ-angers.fr/publications/ua1998</a> [9]
Lien vers le document	<a href="http://joam.inoe.ro/index.php?option=magazine&amp;op=view&amp;idu=1566&amp;catid=29">http://joam.inoe.ro/index.php?option=magazine&amp;op=view&amp;idu=1566&amp;catid=29</a> [10]

### Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=20909](http://okina.univ-angers.fr/publications?f[author]=20909)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=2750](http://okina.univ-angers.fr/publications?f[author]=2750)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=2751](http://okina.univ-angers.fr/publications?f[author]=2751)
- [4] <http://okina.univ-angers.fr/bouchta.sahraoui/publications>
- [5] [http://okina.univ-angers.fr/publications?f\[keyword\]=4964](http://okina.univ-angers.fr/publications?f[keyword]=4964)
- [6] [http://okina.univ-angers.fr/publications?f\[keyword\]=4886](http://okina.univ-angers.fr/publications?f[keyword]=4886)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=4931](http://okina.univ-angers.fr/publications?f[keyword]=4931)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=4820](http://okina.univ-angers.fr/publications?f[keyword]=4820)
- [9] <http://okina.univ-angers.fr/publications/ua1998>
- [10] <http://joam.inoe.ro/index.php?option=magazine&op=view&idu=1566&catid=29>