

1. Annexes

1.1. Partenaires académiques

1.1.1. Laboratoire ITODYS

1.1.1.1. Résumé

Nom du laboratoire	Interface , Organisation et Dynamique des Systèmes
Adresse complète	ITODYS 5 rue Jean-Antoine de Baif 75205 Paris cedex 13, France
Directeur du laboratoire	Francois Maurel
Section CNRS	13
Contact scientifique	Philippe Lang ; Lang@univ-paris-diderot.fr
Objectifs	Nanostructuration de surface en domaines Donneur / accepteur ; plasmonique
Site web	http://www.univ-paris-diderot.fr/sc/site.php?bc=recherche&np=FICHELABO&g=m&num=123C

1.1.1.2. Domaines de compétences

- Nanostructuration, modification des surfaces
- Réseaux nanoporeux 2D hôte -invité
- Interfaces dans les Transistors (OFET)
- Microscopies Champ proche
- Spectroscopie de surface (PM-IRRAS, ...)

1.1.1.3. Personnels permanents impliqués

- Philippe Lang, DR CNRS, lang@univ-paris-diderot.fr
- Jean Christophe LACROIX , Pr , lacroix@univ-paris-diderot.fr
- Mohammed JOUINI, Pr , jouini@univ-paris-diderot.fr

1.1.1.4. Publications significatives (10 max)

1) N. Battaglini, Z. Qin, P. Campiglio, V. Repain, C. Chacon, S. Rousset, and P. Lang
Langmuir, Directed Growth of Mixed Self-Assembled Monolayers on a Nanostructured
Template: a Step toward the Patterning of Functional Molecular Domains
Langmuir 2012 DOI: 10.1021/la302943t

2) N. Karsi, P. Lang, G. Horowitz, H. Bouchriha Effect of self assembled monolayers on charge
carrier photogeneration in sexithiophene based diodes
Syn. Met. 162(2012)1741

3) Use of poly(3-hexylthiophene)/poly(methyl methacrylate)
(P3HT/PMMA) blends to improve the performance of water-gated
organic field-effect transistors, L. Kergoat, N. Battaglini, L. Miozzo B. Piro, G. Horowitz, M-C
Pham, A. Yassar; Organic Electronics 12 (7)(2011) 1253.

4) Improving charge injection in organic thin-film transistors with thiolbased
self assembled monolayers ; P. Marmont, N. Battaglini, P. Lang,
G. Horowitz, J. Hwang, A. Kahn, C. Amato et P. Calas, ;

Org.Electron. 9(2008) 419-424.

5) Self-assembly of an octanethiol monolayer on a gold stepped surface.

N. Battaglini, V. Repain, P. Lang, G. Horowitz et S. Rousset,
Langmuir 24 (2008) 2042-2050

6) Bulk electrical properties of rubrene single crystals: Measurements and analysis , D. Braga, N. Battaglini, A. Yassar, G. Horowitz, M. Campione,

Sassella et A. Borghesi,
Phys. Rev. B 77 (2008) 115205.

7) Growth related properties of pentacene thin film transistors with different gate dielectrics A.-L. Deman, M. Erouel, D. Lallemand, M.

Phaner-Goutorbe, P. Lang and J. Tardy ;
Journal of Non-Crystalline Solids ; 354 (2008), 1598-1607

8) Low-operating-voltage organic transistors made of bifunctional self-assembled monolayers; Motthagi M., Lang P, Rodriguez F., Romyantseva A., Yassar A., Horowitz G., Lenfant S., Tondelier D., Vuillaume D.;

Advanced Functional Materials, 17(2007) 597-604