

1. Annexes

1.1. Partenaires académiques

1.1.1. Laboratoire LAAS-CNRS

1.1.1.1. Résumé

Nom du laboratoire	Laboratoire d'Analyse et d'Architecture des Systèmes (LAAS-CNRS) UPR 8001
Adresse complète	7 Avenue du Colonel Roche, 31077 Toulouse Cedex 4
Directeur du laboratoire	Jean ARLAT
Section CNRS	8 (pour ce qui concerne le GDR)
Contact scientifique	Isabelle Séguy – iseguy@laas.fr
Objectifs	Etude de semi-conducteurs organiques : fabrication de composants avancés pour les microsystèmes (biologie, environnement).
Site web	http://www.laas.fr

1.1.1.2. Domaines de compétences

- Etude des propriétés électroniques de nouveaux semi-conducteurs organiques
- Etudes des propriétés de transport polarisé en spin dans des semi-conducteurs organiques
- Conversion photovoltaïque organique

1.1.1.3. Personnels permanents impliqués

- Elena BEDEL-PEREIRA, CR CNRS, elena@laas.fr
- Isabelle SEGUY, CR CNRS, iseguy@laas.fr

1.1.1.4. Publications significatives (10 max)

- 1 “Spin-polarized transport in NiFe/perylene-3,4,9,10-tetracarboxylate/Co organic spin valves”
M. Palosse, M. Fisichella, E. Bedel-Pereira, I. Séguy, C. Villeneuve, B. Warot-Fonrose, and J. F. Bobo
Journal of Applied Physics **109** (2011) 07C723-1
- 2 “Structural, Magnetic and Magnetoresistive Properties of PTCTE based Organic Spin Valves”
J.F. Bobo, B. Warot-Fonrose, C. Villeneuve, E. Bedel and I. Séguy
IEEE Trans. Mag., Vol. 46, issue 6 (2010) 2090-2093.
- 3 “Measurement of the exciton diffusion length in discotic columnar liquid crystals: Comparison between homeotropically oriented and non-oriented samples”
Lamine Cisse, Pierre Destruel, Samuel Archambeau, Isabelle Seguy, Pascale Jolinat, Harald Bock and Eric Grelet
Chemical Physics Letters **476** (2009) 89–91
- 4 “Ultrathin films of homeotropically aligned columnar liquid crystals on indium tin oxide electrodes”
E. Charlet, E. Grelet, P. Brettes, H. Bock, H. Saadaoui, L. Cisse, P. Destruel, N. Gherardi and I. Séguy
Applied Physics Letters, vol. 92 (2008) 024107.
- 5 “Organic solar cells with an ultra thin organized hole transport layer”
S. Archambeau, H. Bock, I. Séguy, P. Jolinat, and P. Destruel,
J. of Mat. Sci.: Materials in Electronics, vol. 18, Number 9, September 2007 – Special Section : Organic Electronics.

- 6 “Electrophosphorescent homo- and heteroleptic copper(I) complexes prepared from various bis-phosphine ligands”
Moudam, A. Kaeser, B. Delavaux-Nicot, C. Duhayon, M. Holler, G. Accorsi, N. Armaroli, I. Séguy, J. Navarro, P. Destruel and JF Nierengarten
Chemical Communications, 26 June 2007, 3077 – 3079.
- 7 “Liquid Crystalline and Electron-Deficient Coronene Oligocarboxylic Esters and Imides by Two-Fold Benzogenic Diels-Alder Reactions on Perylenes”
S. Alibert-Fouet, I. Séguy, J-F. Bobo, Pierre Destruel, and Harald Bock
Chemistry - A European Journal, 13, 6, (2006) 1746.
- 8 “Stabilization of discotic liquid organic thin films by ITO surface treatment”
S. Archambeau, I. Séguy, P. Jolinat, P. Destruel, T.P. Nguyen, H. Bock, and E. Grelet
Appl. Surf. Sci., 253, 4, 2078 (2006).
- 9 “Influence of the ITO treatment using UV-Ozone and argon plasma on the photovoltaic parameters of devices based on organic discotic materials”
P. Destruel, H. Bock, I. Séguy, P. Jolinat, M. Oukachmih, and E. Bedel Pereira
Polym. Int., 55, 601 (2006).
- 10 “New organic discotic materials for photovoltaic conversion”
M. Oukachmih, P. Destruel, I. Séguy, G. Ablart, P. Jolinat, S. Archambeau, M. Mabilia, S. Fouet, H. Bock
Sol. Energy Conv. & Solar Cells, 85, 535 (2005)