

Dr. Cyril BROCHON, 48 years old
Cyril.brochon@enscbp.fr
Associate Professor – University of Bordeaux
Research at LCPO (UMR 5629)



Titles and Degrees

2009: HDR: Accreditation to Supervise Research, **University of Strasbourg**

1999: PhD in Laboratoire de Chimie des Polymères Organiques (LCPO), **University of Bordeaux**.
Study of silicon based heterocycle polymerizability.

Professional experiences

Since 2009: Associate Professor at **University of Bordeaux** and member of the Laboratoire de Chimie des Polymères Organiques (LCPO – UMR 5629)

2001-2009: Assistant Professor and then Associate Professor at the **Ecole Européenne de Chimie, Polymères et Matériaux (ECPM) - University Louis Pasteur of Strasbourg** and member of the Laboratoire des Polymères pour les Hautes Technologies (LIPHT).

1999-2001: Post-doc at **Institut Charles Sadron (CNRS)**. Controlled/living polymerization by RAFT.

1999: Non-permanent researcher in Organic Chemistry Department of **University of Rennes**. Synthesis of Boron based inorganic polymers.

Research Interests

Block copolymer synthesis and self-assembly for functional materials;

Semi-conducting polymers and copolymers synthesis for organic electronic;

Electrophoretic Inks.

Scientific contribution - award

Award of French journal « La Recherche » in chemistry, in 2013.

100 peer-reviewed papers and book chapters, h = 30 (august 2019), 15+ patents.

Five representative publications

1. *Triaryl-1,4-diamine-based polysquaraines: effect of co-solvent and monomer insertion on optoelectronic properties.* G. Garbay, T. Tailliez, E. Pavlopoulou, J. Oriou, M. Bezirdjoglou, G. Hadziioannou, E. Cloutet and C. Brochon.* *Polymer Chemistry* (2018) 9, 1288-1292 (IF = 5.69)

2. *Synthesis of charged hybrid particles via dispersion polymerization in nonpolar media for color electrophoretic display application.* Noël, A., Mirbel, D., Charbonnier, A., Cloutet, E., Hadziioannou, G., Brochon, C.* *Journal of Polymer Science, Part A: Polymer Chemistry* (2017) 55 (2), pp. 338-348. (IF = 3.11)

3. *Synthesis of squaraine-based alternated π -conjugated copolymers: From conventional cross-coupling reactions to metal-free polycondensation.* Oriou, J., Ng, F., Hadziioannou, G., Garbay, G., Bousquet, M., Vignau, L., Cloutet, E., Brochon, C.* *Polymer Chemistry* (2014), 5 (24), pp. 7100-7108 (IF = 5.69)

4. *Block copolymer as nano-structuring agent for high-efficiency and annealing-free bulk hetero-junction organic solar cells.* C. Renaud, S.-J. Mognier, E. Pavlopoulou, C. Brochon*, D. Deribew, E. Cloutet, S. Chambon, L. Vignau, G. Hadziioannou. *Advanced Materials* (2012) 24(16), 2196-2201 (IF = 18.9)

5. *Design of well-defined mono-functionalized Poly(3-hexylthiophene)s: towards the synthesis of semi-conducting graft copolymers.* S.-J. Mognier, C. Brochon*, E. Cloutet, G. Fleury, H. Cramail, G. Hadziioannou. *Macromolecular Rapid Com.* (2012) 33(8), 703-709 (IF = 4.60)