

**Guillaume Fleury**E-mail : [guillaume.fleury@u-bordeaux.fr](mailto:guillaume.fleury@u-bordeaux.fr)

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**Associate Professor at the University of Bordeaux****Ph.D. in Chemistry and Materials Science from the University of Strasbourg**

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**EDUCATION AND EXPERIENCES:**

- 11/2016: Associate Professor at the University of Bordeaux. Accreditation to supervise doctoral research.  
Title: Nanostructuring of functional polymers for Electronics, Energy and Information Storage.
- 09/2009-11/06: Assistant Professor at the University of Bordeaux in the "Polymer Electronics and Devices" research group of the Laboratory of Organic Polymer Chemistry.  
Topics: Block-copolymer self-assembly, Optoelectronic and electroactive polymers.
- 04/2006-08/2009: Postdoctoral associate in the Pr. Bates group at the University of Minnesota.  
Topics: Design of multiblock copolymers for novel thermoplastic elastomers.
- 09/2002-12/2005: Ph.D. at the University of Strasbourg under the supervision of Pr. Hadziioannou and Pr. Schlatter.  
Title: From high molecular weight polyrotaxanes to topological networks: the sliding gels.

**RESEARCH INTERESTS:**

- Block copolymer self-assembly in thin films
- Bottom-up nano-manufacturing
- Electro-active polymers for energy harvesting and environmental monitoring

**SCIENTIFIC CONTRIBUTION AND AWARDS**

- 70 articles and book chapters (h = 24)
- 14 patents
- SFP/GFP Prize in Polymer Physics (2018)
- Prize in Chemistry from the journal "La Recherche" (2013)

**FIVE REPRESENTATIVE PUBLICATIONS**

- "Micellar-Mediated Block Copolymer Ordering Dynamics Revealed by In-Situ Grazing Incidence Small-Angle X-ray Scattering during Spin Coating" G. Fleury, D. Hermida-Merion, D. Jingjin, K. Aissou, A. Bytchkov, G. Portale, *Adv. Funct. Mat.*, **29** (10), 1806741 (2019).
- "Structurally-driven enhancement of thermoelectric properties within Poly (3, 4-ethylenedioxythiophene) thin films" I. Petsagkourakis, E. Pavlopoulou, G. Portale, B. A. Kuropatwa, S. Dilhaire, G. Fleury, G. Hadziioannou, *Scientific Reports*, **6**, 30501 (2016).
- "Archimedean tilings and hierarchical lamellar morphology formed by semicrystalline miktoarm star terpolymer thin films", K. Aissou, W. Kwon, M. Mumtaz, S. Antoine, M. Maret, G. Portale, G. Fleury, G. Hadziioannou, *ACS Nano*, **10** (4), 4055-4061 (2016).
- "Sub-10 nm features obtained from directed self-assembly of semicrystalline polycarbosilane-based block copolymer thin films" K. Aissou, M. Mumtaz, G. Fleury, G. Portale, C. Navarro, E. Cloutet, C. Brochon, C. A. Ross, G. Hadziioannou, *Adv. Mater.*, **27** (2), 261-265 (2015).
- "Crystallization-driven enhancement in organic photovoltaic performance through rod-coil block copolymer incorporation into P3HT:PCBM blends" D. H. Deribew, E. Pavlopoulou, G. Fleury, C. Nicolet, C. Renaud, S. J. Mognier, L. Vignau, E. Cloutet, C. Brochon, F. Cousin, G. Portale, M. Geoghegan, G. Hadziioannou, *Macromolecules*, **46** (8), 3015-3024 (2013).