Fabrice Azemar

fabrice.azemar@univ-ubs.fr

Section CNU 33

Education, work experience and current position

Lecturer and researcher at Université de Bretagne Sud (UBS) since 2018.

**2013 :** Ph. D. at UBS (LBCM). *Development of new hybrid antifouling paints*. Supervisors: Prs Karine Réhel and Isabelle Linossier.

**2013 :** Research Affiliate at University of Sydney (KCPC). *Advanced polymeric architectures via thiol-ene and thiol-yne reactions*. Supervisors: Pr Sébastien Perrier.

**2014-2016** : Postdoctoral position at Montpellier university (ICGM-IAM). *Elaboration of polymeric nanotubes by a combination of RAFT and Ring-Opening Polymerizations.* Supervisor: Pr Sophie Monge

**2016-2018** : Postdoctoral and ATER position at UBS (LBCM). *Development of polymers for antifouling coatings more ecofriendly.* Supervisor: Prs Karine Réhel and Isabelle Linossier.

Summary of research activities and skills

All my researches focus on polymers synthesis and modification for antifouling coatings. The aim is to develop a new kind of more environmental antifouling coating with a high efficiency. Modification of polymers architectures or addition of functional group have an influence on the coating properties and organization. We use NMR benchtop, Maldi-Tof mass spectrometry and FTIR for polymers characterization. Microscopy (CLSM and SEM) and contact angle tools are used to characterized the coatings. We also develop new tools to study the behavior of our coatings in marine environment.

Summary of teaching activities

Teaching chemistry and chemical risk in the Health, Safety and Environment department of university Institute of Technology.

Pedagogic and administrative duties

In charge of chemistry teachings (IUT HSE Lorient)

Manage the workgroup on the development of chemistry teachings during the Health, Safety and Environment formation (IUT HSE)

4 articles in international journals and 1 patent

1.Gillet G., Azemar F., Faÿ F., Réhel K., Linossier I. Non-leachable hydrophilic additives for amphiphilic coatings, *Polymers*, Soumise. IF : 3.364

2.Azemar F., Gomes Rodrigues D., Robin J.J., Monge S. Synthesis and self-assembly of carbamoylmethylphosphonate acrylamide-based diblock copolymers: new valuable thermosensitive materials. *Dalton Transactions*, 45: 1881-1885. IF : 4.029

3.Azemar F., Faÿ F., Réhel K., Linossier I. Development of hybrid antifouling paints, *Progress in Organic Coatings*, 87: 10-19. IF : 2.858

4.Azemar F., Faÿ F., Réhel K., Linossier I. Control of hydration and degradation properties of triblock copolymers polycaprolactone*-b-*polydimethylsiloxane*-b-*poly-caprolactone, *J. Appl. Polym. Sci.,* 131: 40431. IF : 1.863.