

Pr Isabelle LINOSSIER

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CNU : 33 Materials Engineering

Formation

1995: PhD : "Using infrared spectroscopy evanescent waves for the in-situ study of interfacial area polymer / substrate", *University Claude Bernard -Lyon1*

2008: Habilitation to supervise PhD students: « Study of the interface biofilm/polymer »
University of South Brittany.

Research activities and skills

- Physicochemical characterisation of bacteria and substrates
- Development of analytical tools to study the efficiency of antifouling paints.
- Formulation of biodegradable antifouling paint.
- Study of marine biofilm
- Effect of viscoelastic properties on the bioadhesion
- Physico-chemistry of polymer.
- Polymer synthesis

Teaching activities

- chemical risk, major technological risk, major natural risk, environmental risk

Pedagogic and administrative duties

Co-director of LBCM

Publications:

1)L. Hawkins, F. Fay, K. Rehel, I. Linossier*, M. A. Grunlan. « Bacteria and diatom resistance of silicones modified with PEO-silane amphiphiles » *Biofouling*, Vol. 30, 2, 247–258, (2014)

2)F. Azemar, F. Faÿ, K. Réhel, I. Linossier 2015. « Development of hybrid antifouling paints. » *Progress in Organic Coatings* 87, 10–19. (2015)

3)F. Azemar, F. Faÿ, K. Réhel, I. Linossier*. « Control of hydration and degradation properties of triblock copolymers polycaprolactone-b-polydimethylsiloxane-b-polycaprolactone » *European Polymer Journal*, Vol.131, 18, (2014)

4) C. Guégan , J. Garderes , G. Le Penneç , F.Gaillard, Faÿ F, Linossier I, J.M.Herry, M.N. Bellon Fontaine, K. Réhel « Alteration of bacterial adhesion induced by the substrate stiffness » *Colloids and Surfaces B : Biointerfaces*, Vol.114, 193-200, (2014)

5)D. Carteau, K. Vallée Réhel, I. Linossier, F. Quiniou, R. Davy, C. Compère, M. Delbury, F. Faÿ

« Development of environmentally friendly antifouling paints using biodegradable polymer binder and non toxic substances » *Progress in Organic Coatings*, Vol.77, 485-493