

Sophie FOURMENTIN-LAMOTTE

Date of birth: 12th April 1968

Married, 2 children

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Current position: Full professor in chemistry - Université du Littoral - Côte d'Opale (ULCO)

Education

- ⑦ Sept 2008: Full professor in chemistry - ULCO
- ⑦ June 2006: HDR (authorisation to supervise research activities) - ULCO
- ⑦ September 1996: Assistant Professor - ULCO
- ✓ 1994: Ph. D in organic chemistry - University of Lille

Administrative responsibilities

- ✓ since 2010: Person in charge of the supramolecular chemistry team within the UCEIV
- ✓ 2008-2010: Director, Laboratoire de Synthèse Organique et Environnement (LSOE)
- ✓ since 2012: Member of the scientific board of the University

Research area

- Development of analytical methods to characterize host/guest inclusion compounds
- Development of innovative remediation technologies taking benefit of cyclodextrins properties (VOC absorption, Fenton oxidation).
- Encapsulation of bioactive molecules (aroma, essential oils)

Recent key publications (Total number of publication: 57, h-index: 17)

1. M. Kfoury, D. Landy, L. Auezova, S. Fourmentin, H. Greige-Gerges : Effect of cyclodextrins complexation on phenylpropanoids solubility and antioxidant activity, *Beilstein J. Org. Chem.*, 10, 2322–2331, 2014. DOI:10.3762/bjoc.10.241
2. L. Djeflal, S. Abderrahmane, M. Benzina, M. Fourmentin, S. Siffert, S. Fourmentin : Efficient degradation of phenol using natural clay as heterogeneous Fenton-like catalyst, *Environ. Sci. Pollut. Res.*, 21(5), 3331-3338, 2014. DOI: 10.1007/s11356-013-2278-5.
3. M. Kfoury, L. Auezova, H. Greige-Gerges, S. Ruellan, S. Fourmentin: Cyclodextrin, an efficient tool for trans-anethole encapsulation: Chromatographic, spectroscopic, thermal and structural studies, *Food Chem.*, 164, 454-461, **2014**. DOI: 10.1016/j.foodchem.2014.05.052
4. S. Fourmentin, A. Ciobanu, D. Landy, G. Wenz : Space filling of β -cyclodextrin and β -cyclodextrin derivatives by volatile hydrophobic guests, *Beilstein J. Org. Chem.*, 9, 1185-1191, 2013. DOI:10.3762/bjoc.9.133
5. A. Ciobanu, D. Landy, S. Fourmentin : Complexation efficiency of cyclodextrins for volatile flavor compounds, *Food Research Int.*, 53(1), 110-114, 2013. DOI: 10.1016/j.foodres.2013.03.048

Book Chapter

D. Landy, I. Mallard, A. Ponchel, E. Monflier, S. Fourmentin: Cyclodextrins in Remediation Technologies, In E. Lichtfouse et al. (eds.), *Environmental Chemistry for a Sustainable*

World: Part 1, Springer, pp 47-81, 2012. DOI 10.1007/978-94-007-2442-6. ISBN: 978-94007-2441-9.