

Sophie FOURMENTIN-LAMOTTE

Date of birth: 12th April 1968

Married, 2 children

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Current position: Distinguished professor in chemistry - Université du Littoral Côte d'Opale (ULCO)
Adjunct Professor at Aalborg University, Denmark

Education

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

Administrative responsibilities

- 2010-2019: Person in charge of the Supramolecular Chemistry team within the UCEIV
- 2008-2010: Director, Laboratoire de Synthèse Organique et Environnement (LSOE)
- 2012-2016: Member of the scientific board - ULCO
- since January 2015: Director of the Industrial and Commercial Activities Department (SAIC)
- since April 2016: Member of the administration board – ULCO
- since February 2017: Person in charge of the valorization - ULCO.

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, photocatalysis).
- Encapsulation of bioactive molecules (aroma, essential oils)
- Development of deep eutectic solvents with supramolecular properties

Key publications (Total number of publications: 138, h-index: 39, 3849 citations, 14 chapters, 5 books, 1 patent)

1. P. Villarim, E. Genty, J. Zemmouri, S. Fourmentin: Deep eutectic solvents and conventional solvents as VOC absorbents for biogas upgrading: A comparative study, *Chem. Eng. J.*, 446, 136875, 2022. DOI:10.1016/j.cej.2022.136875
2. T. El Achkar, T. Moufawad, S. Ruellan, D. Landy, H. Greige-Gerges, S. Fourmentin: Cyclodextrins: from solute to solvent, *Chem. Comm.*, 56, 3385-3388, 2020.
3. T. Moufawad, L. Moura, M. Ferreira, H. Bricout, S. Tilloy, E. Monflier, M. Costa Gomes, D. Landy, S. Fourmentin: First evidence of cyclodextrin inclusion complexes in a deep eutectic solvent, *ACS Sustain. Chem. Eng.*, 7, 6345-6351, 2019.
4. M. Kfoury, L. Auezova, H. Greige-Gerges, S. Fourmentin: Promising applications of cyclodextrins in food: improvement of essential oils retention, controlled release and antiradical activity, *Carbohydr. Polym.*, 131, 264-272, 2015.
5. 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.