#### **Prof. Renaud Cousin**

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## **Professional Experience**

**2016-Professor** at Université du Littoral Côte d'Opale (ULCO) – Dunkerque - France **2003-Associate Professor** at Université du Littoral Côte d'Opale (ULCO) – Dunkerque - France **2001/2002-Post-Doctorant researcher** sponsored by Daimler at the Strasbourg University (France)

#### Education

**2014-** Accreditation to Supervise Research (Habilitation thesis) - ULCO **2000-** Ph.D. degree in chemistry obtained at the University of Opal Coast (ULCO, France)

# Administrative and scientific responsibilities

Manager (since 2020) of the catalysis research team (TCEP) of UCEIV

Elected member (since 2014) to the Board of the Environmental Research Pole of ULCO

Manager of the project « CATACOMB » from ADEME AQACIA (2022-2025, 3 research teams, 1 industrial partner), this project concerns the catalytic treatment of emissions from wood combustion

Co-Scientific officer of **European Project Interreg V « DepollutAir »** (2016-2022, 9 research teams, 2 industrial partners), the objective of this project is to develop new methods of VOCs treatment by coupling

Manager of the project « COVO » from CPER IRENE (2017/2019, 2 research teams, 1 industrial partner), this project concerned the faisability study of a catalytic treatment of VOCs industrial emisions

Guest Editor (since 2017) of Catalysts MDPI (ISSN 2073-4344; CODEN: CATACJ): an Open Access Catalysis Journal

## **Research topics**

Environmental catalysis – VOC – CO - Catalytic oxidation - Gold based catalysts – Mixed Oxides - LDHs

### Scientific and societal impact of research

91 international papers – 1 patent / Citations : 2350 – h index : 27

### Significant papers

Optimization of Mn-Mg-Al Mixed Oxides Composition on their Activity towards the Total Oxidation of Aromatic and Oxygenated VOCs R. El Khawaja, G. Rochard, E. Genty, C. Poupin, S. Siffert, R. Cousin *European Journal of Inorganic Chemistry*, 26(20),2023

Recent advances in the catalytic treatment of volatile organic compounds: A review based on the mixture effect G. Rochard, L. Olivet, M. Tannous, C. Poupin, S. Siffert, R. Cousin **Catalysts**, 11(10), **2021**, 1218

Activity, selectivity, and stability of vanadium catalysts in formaldehyde production from emissions of volatile organic compounds T. Laitinen, S. Ojala, R. Cousin, N. Koivikko, C. Poupin, Z. El Assal, A. Aho, R. L. Keiski *Journal of Industrial and Engineering Chemistry*, 83, 2020, 375-386

Influence of CO addition on the toluene total oxidation over Co based mixed oxide catalysts E. Genty, J. Brunet, C. Poupin, S. Ojala, S. Siffert, R. Cousin *Applied Catalysis B: Environmental* 247, 2019, 163–172