



Christine TAVIOT GUEHO

[UFR de Chimie\(https://chimie.uca.fr/contacts-et-plan-daccès\)](https://chimie.uca.fr/contacts-et-plan-daccès)

Coordonnées

Tél	+33473407104
Mail	Christine.TAVIOT-GUEHO@uca.fr (mailto:Christine%2ETAVIOT-GUEHO%40uca%2Efr)

Thèmes de recherche

- Structural characterization of LDH and Hybrid LDH assemblies (cation distribution, stacking faults, microstructure, dynamic of the interlayer space...) by means of X-ray scattering measurements: Rietveld refinement from powder diffraction data, total scattering pair distribution function analysis PDF, energy dispersive X-ray diffraction....
- LDH as synthetic drug delivery systems
- Photo bactericidal properties of porphyrin-LDH/polymer films.
- Study of AFm-superplasticizer interactions.
- Anion-exchange mechanism in LDH

Activités / CV

- Since 2012, Professor at the Institute of Chemistry of Clermont-Ferrand (ICCF), UCA
- 2004: Ability to supervise research projects HDR
- 1996-2011: Senior Lecturer in Inorganic Chemistry, Blaise Pascal University, Clermont-Ferrand

- 1995-1996: Post-doctoral position as researcher assistant at BP Chemicals in the Applied Technology team (team leader: Dr. M.P. ATKINS).
- 1992-1995: Ph.D. in Inorganic-Solid state chemistry at the Materials Institute of Nantes (IMN Jean ROUXEL)

Responsabilités

- Since January 2017: Chair of the research group on Layered Double Hydroxides (LDH) at ICCF
- Since September 2016: in charge of the X-ray diffraction department at ICCF
- Since 2010: in charge of a technician bachelor degree in analytical chemistry at UCA University
- 2012-2016: in charge of the policy for the development and the use of information and communication technologies in teaching and learning at Blaise Pascal University.

Fonctions à l'ICCF

- Membre de l'équipe [Matériaux Inorganiques \(MI\)](https://iccf.uca.fr/recherche/materiaux-inorganiques)(<https://iccf.uca.fr/recherche/materiaux-inorganiques>)
- Responsable de la thématique [Hydroxydes Doubles Lamellaires \(HDL\)](https://iccf.uca.fr/recherche/materiaux-inorganiques/hydroxydes-doubles-lamellaires)(<https://iccf.uca.fr/recherche/materiaux-inorganiques/hydroxydes-doubles-lamellaires>)

Corps

PR UCA

Informations complémentaires

PUBLICATIONS

- Publications in peer reviewed Journals: 77
- Books and book chapters: 4
- Patents: 1
- Citation report from Web of Science: h-index: 25
- Invited talks in conferences and symposia: 8

5 RELEVANT PUBLICATIONS :

(1) C. Taviot-Gueho, P. Vialat, F. Leroux, F. Razzaghi, H. Perrot, O. Sel, N. Daugaard Jensen, U. Gro Nielsen, S. Peulon, E. Elkaim, C. Mousty "Dynamic Characterization of Inter- and Intralamellar Domains of

Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation” *Chem. Mater.* **2016**, 28, 77937806.

(2) P. Vialat, C. Mousty, C. Taviot-Gueho, G. Renaudin, H. Martinez, J.C. Dupin, E. Elkaim, F. Leroux, “High-Performing Monometallic Cobalt Layered Double Hydroxide Supercapacitor with Defined Local Structure” *Adv. Funct. Mater.* **2014**, 24, 4831-4842.

(3) M. Merchan, T.S. Ouk, P. Kubat, K. Lang, C. Coelho, V. Verney, S. Commereuc, F. Leroux, V. Sol, C. Taviot-Gueho “ Photostability and photobactericidal properties of porphyrin-layered double hydroxide-polyurethane composite films ” *J. Mater. Chem. B* **2013**, 1, 2139-2146.

(4) A. Faour, C. Mousty, V. Prevot, B. Devouard, A. De Roy, P. Bordet, E. Elkaim, C. Taviot-Gueho, “Correlation among Structure, Microstructure, and Electrochemical Properties of NiAl-CO₃ Layered Double Hydroxide Thin Films” *J. Phys. Chem. C*, **2012**, 116, 15646-15659.

(5) C. Taviot-Guého, Y.J. Feng, A. Faour, F. Leroux “Intercalation Chemistry in LDH System: Anion Exchange Process and Staging Phenomenon investigated by means of Time-Resolved, In Situ X-ray Diffraction” *Dalton. Trans.* **2010**,39, 5994-6005.

Rechercher

```
/**/ body ul.objets li { width: 48%; display: inline-block; vertical-align: top;} body ul.objets li:nth-child(odd){ margin-right:1em;} /**/
```

[https://iccf.uca.fr/annuaire/christine-taviot-gueho\(https://iccf.uca.fr/annuaire/christine-taviot-gueho\)](https://iccf.uca.fr/annuaire/christine-taviot-gueho(https://iccf.uca.fr/annuaire/christine-taviot-gueho))