

Fluoridation and Fluorinated Materials

Group **MF2** - Fluorination and Fluorinated Materials

Leader: [Katia Guérin](https://iccf.uca.fr/annuaire/katia-araujo-da-silva)(<https://iccf.uca.fr/annuaire/katia-araujo-da-silva>)



Presentation video (audio in French) of the Fluorination and Fluorinated Materials group: [http://www.innovergne.fr/sites/www....\(http://www.innovergne.fr/sites/www.innovergne.fr/files/videos/iccf-fluor_et_fluorures_171127.mp4\)](http://www.innovergne.fr/sites/www....(http://www.innovergne.fr/sites/www.innovergne.fr/files/videos/iccf-fluor_et_fluorures_171127.mp4)



Latest broad public article (in French): [https://theconversation.com/quelles...\(https://theconversation.com/quelles-batteries-pour-les-vehicules-electriques-107661\)](https://theconversation.com/quelles...(https://theconversation.com/quelles-batteries-pour-les-vehicules-electriques-107661))

Member of the French Fluorine Network (GIS Fluor): <http://www.reseau-fluor.fr/fr/>(<http://www.reseau-fluor.fr/fr/>)

[Research topics](https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/research-topics)(<https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/research-topics>)

- Synthesis and fonctionnalization in fluorinated atmosphere of inorganic (nano)fluorides and fluorinated (nano)carbons
- Applications of fluorinated materials for energy storage, lubrication, nanocomposites (fluorinated nanofillers)
- Surface treatment using fluorination (tribology, (super)hydrophobicity, barrier properties, adhesion, printability, ...)
- Synthesis of materials for gas sensors
- Chemistry of uranium hexafluoride and mixed valence oxyfluorides

[Expertises](https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/expertises)(<https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/expertises>)

- Chimie du fluor, synthèses sous atmosphère(s) fluorée(s) et par voie solide
- Chemistry of (oxy)fluorides
- Chimie des fluorures d'Uranium
- Traitements et modifications de surface
- Caractérisation des matériaux fluorés (DRX, RMN du solide, Raman, ...)
- Stucturation at the nanoscale of fluorides (gas/solid route, hydrothermal, microemulsion, ...)

[Programs and grants](https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/programs-and-grants)(<https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/programs-and-grants>)

[Collaborations](https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/collaborations)(<https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/collaborations>)

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[Publications](https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/publications)(https://iccf.uca.fr/english-version/research/inorganic-materials/fluoridation-and-fluorinated-materials/publications)

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