





M. Daniel CLAVES

Maître de Conférences

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

Coordonnées

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Thèmes de recherche

Dérivés fluorés d'addition et d'intercalation des différentes variétés allotropiques du carbone ou de matériaux polymères, leur caractérisation et propriétés (structurales, spectroscopiques, électrochimiques, hydrophobes, barrières, tribologiques, « template » ...)

Activités / CV

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>)
- Membre de la thématique [Fluoration et Matériaux Fluorés \(MF2\)](https://iccf.uca.fr/recherche/materiaux-inorganiques/fluoration-et-materiaux-fluores)(<https://iccf.uca.fr/recherche/materiaux-inorganiques/fluoration-et-materiaux-fluores>)

Corps

MC UCA

Informations complémentaires

Recherches actuelles

- Traitement de surface par le fluor de matériaux polymères et applications biomédicales
- Nanocomposites fluorés polymères/nanocarbones, synthèse, mise en forme et applications en guise de revêtements

Parcours de recherche

2007 : Habilitation à diriger des recherches

1997 : Maître de conférences – UBP

1995 : Doctorat INP Grenoble

Bibliographie

Quelques contributions représentatives de la variété des thématiques abordées :

Ouvrages

* (Chapitre de monographie) Fluorinated carbon nanotubes: State of the art, trends and advanced concepts - D. Claves - Carbon Nanotubes : New Research, A. P. Ottenhouse (Ed.), Chap. 11 pp 341-369, Nova Science Publisher, NY (2009) (<https://www.novapublishers.com/>)

Review article

* Hole-doping of fullerenes and nanotubes by way of intercalation chemistry - D. Claves, J. Nanosci. and Nanotechnol. 7 (4-5), 1221-1238 (2007)

Articles

* Superhydrophobicity of polymer films via fluorine atoms covalent attachment and surface nano-texturing - J. Zha, J. Peyroux, N. Batisse, D. Claves, M. Dubois, A. Kharitonov, G. Monier, T. Darmanin, F. Guittard, L. Alekseiko - J. Fluorine Chemistry 200, 123-132 (2017)

* Spectroscopic study of fluorinated carbon nanostructures - D. Claves - New J. Chem., 35 (11), 2477-2482 (2011)

* Selective substitution of fluorine atoms grafted to the surface of carbon nanotubes and application to an oxyfluorination strategy - F. Chamssedine, D. Claves - Carbon 46 (6), 957-962 (2008)

* A prospective overview of the potential of fluorofullerenes as host materials for intercalation chemistry - D. Claves, J. Phys. Chem. B 109 (25), 12399-12405 (2005)

* Crystal chemistry of europium fullerides - D. Claves, Y. Ksari, G. Chouteau, Ph. Touzain - Solid State Commun. 106 (7), p. 431-435 (1998)

Publications HAL de Daniel,CLAVES de la collection PRES_CLERMONT
2023

titre

[Fluorination of PVC medical devices to prevent plasticizers migration\(https://hal.science/hal-04448944\)](https://hal.science/hal-04448944)
)

auteur

Imen Dhifallah, Daniel Claves, Nicolas Batisse, Régis Cueff, Anne-Francoise Sapin, Yassine Bouattour, Elodie Petit, Marc Dubois, Valérie Sautou

article

International Journal of Pharmaceutics, 2023, 643, pp.123254. [10.1016/j.ijpharm.2023.123254](https://doi.org/10.1016/j.ijpharm.2023.123254)(
<https://dx.doi.org/10.1016/j.ijpharm.2023.123254>)

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Accès au bibtex



(<https://hal.science/hal-04448944/bibtex>)

2022

titre

[Fluorination effect on the solubility of C60 in a bis\(trifluoromethylsulfonyl\)imide based ionic liquid\(
https://uca.hal.science/hal-03702400\)](https://uca.hal.science/hal-03702400)

auteur

Yasser Ahmad, Jean-Michel Andanson, Pierre Bonnet, Nicolas Batisse, Daniel Claves, Marc Dubois,
Agílio Pádua

article

Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, pp.129140. [10.1016
j.colsurfa.2022.129140](https://dx.doi.org/10.1016/j.colsurfa.2022.129140)(<https://dx.doi.org/10.1016/j.colsurfa.2022.129140>)

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Accès au texte intégral et bibtex



([https://uca.hal.science/hal-03702400/file/COLSUA-D-22-00784%20-%20Colloids%20and%
20Surfaces%20A.pdf](https://uca.hal.science/hal-03702400/file/COLSUA-D-22-00784%20-%20Colloids%20and%20Surfaces%20A.pdf))



(<https://uca.hal.science/hal-03702400/bibtex>)

2019

titre

[A universal fluorous technology toward superhydrophobic coatings](https://uca.hal.science/hal-04051451)(<https://uca.hal.science/hal-04051451>)

auteur

Jinlong Zha, Nicolas Batisse, Daniel Claves, Marc Dubois

article

Journal of Colloid and Interface Science, 2019, 553, pp.778-787. [10.1016/j.jcis.2019.06.067](https://doi.org/10.1016/j.jcis.2019.06.067)([https://dx.doi.org/10.1016/j.jcis.2019.06.067](https://doi.org/10.1016/j.jcis.2019.06.067))

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Accès au texte intégral et bibtex

(<https://uca.hal.science/hal-04051451/file/JCIS%202019%20final.pdf>) (<https://uca.hal.science/hal-04051451/bibtex>)

2017

titre

[Superhydrophobicity of polymer films via fluorine atoms covalent attachment and surface nano-texturing](https://hal.science/hal-01639375)(<https://hal.science/hal-01639375>)

auteur

Jinlong Zha, Sahal Saad Ali, Jérémy Peyroux, Nicolas Batisse, Daniel Claves, Marc Dubois, Alexander P. Kharitonov, Guillaume Monier, Thierry Darmanin, Frédéric Guittard, Leonid N. Alekseiko

article

Journal of Fluorine Chemistry, 2017, 200, pp.123 - 132. [10.1016/j.jfluchem.2017.06.011](https://doi.org/10.1016/j.jfluchem.2017.06.011)([https://dx.doi.org/10.1016/j.jfluchem.2017.06.011](https://doi.org/10.1016/j.jfluchem.2017.06.011))

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(<https://hal.science/hal-01639375/bibtex>)

titre

[Superhydrophobicity of polymer films via fluorine atoms covalent attachment and surface nano-texturing\(https://uca.hal.science/hal-04051447\)](https://uca.hal.science/hal-04051447)

auteur

Jinlong Zha, Sahal Saad Ali, Jérémy Peyroux, Nicolas Batisse, Daniel Claves, Marc Dubois, Alexander P. Kharitonov, Guillaume Monier, Thierry Darmanin, Frédéric Guittard, Leonid N. Alekseiko

article

Journal of Fluorine Chemistry, 2017, 200, pp.123 - 132. [10.1016/j.jfluchem.2017.06.011](https://dx.doi.org/10.1016/j.jfluchem.2017.06.011)(https://dx.doi.org/10.1016/j.jfluchem.2017.06.011)

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Accès au texte intégral et bibtex

 (https://uca.hal.science/hal-04051447/file/JFC%202017%20Version%20finale.pdf)  (https://uca.hal.science/hal-04051447/bibtex)

2016

titre

[Superhydrophobicity via gas-phase monomers grafting onto carbon nanotubes\(https://uca.hal.science/hal-04051442\)](https://uca.hal.science/hal-04051442)

auteur

Jinlong Zha, Nicolas Batisse, Daniel Claves, Marc Dubois, Lawrence Frezet, Alexander P Kharitonov, Leonid N Alekseiko

article

Progress in Surface Science, 2016, 91 (2), pp.57 - 71. [10.1016/j.progsurf.2016.03.002](https://dx.doi.org/10.1016/j.progsurf.2016.03.002)(https://dx.doi.org/10.1016/j.progsurf.2016.03.002)

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 (<https://uca.hal.science/hal-04051442/bibtex>)

titre

[Superhydrophobicity via gas-phase monomers grafting onto carbon nanotubes](https://hal.science/hal-01370196) (<https://hal.science/hal-01370196>)

auteur

Jinlong Zha, Nicolas Batisse, Daniel Claves, Marc Dubois, Lawrence Frezet, Alexander P. Kharitonov, Leonid N. Alekseiko

article

Progress in Surface Science, 2016, 91, pp.57-71. [10.1016/j.progsurf.2016.03.002](https://dx.doi.org/10.1016/j.progsurf.2016.03.002) (<https://dx.doi.org/10.1016/j.progsurf.2016.03.002>)

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Accès au bibtex

 (<https://hal.science/hal-01370196/bibtex>)

2011

titre

[Spectroscopic study of fluorinated carbon nanostructures](https://uca.hal.science/hal-04051431) (<https://uca.hal.science/hal-04051431>)

auteur

Daniel Claves

article

New Journal of Chemistry, 2011, 35 (11), pp.2477. [10.1039/c1nj20239a](https://dx.doi.org/10.1039/c1nj20239a) (<https://dx.doi.org/10.1039/c1nj20239a>)

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(<https://uca.hal.science/hal-04051431/file/NJC%202011%20final%20%281%29.pdf>) (<https://uca.hal.science/hal-04051431/bibtex>)

titre

[Intercalated Carbon Nanotubes as a Template for the Preparation of Supported Heteroatomic Nanoparticles](https://uca.hal.science/hal-04051436)(<https://uca.hal.science/hal-04051436>)

auteur

Marie-Claude Schouler, Fadel Chamssedine, Daniel Claves

article

Journal of Nanoscience and Nanotechnology, 2011, 11, pp.2287-2291. [10.1166/jnn.2010.3556](https://dx.doi.org/10.1166/jnn.2010.3556)(<https://dx.doi.org/10.1166/jnn.2010.3556>)

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(<https://uca.hal.science/hal-04051436/file/JNN%202011%20final.pdf>) (<https://uca.hal.science/hal-04051436/bibtex>)

2009

titre

[An unusual weak bonding mode of fluorine to single-walled carbon nanotubes](https://uca.hal.science/hal-04051426)(<https://uca.hal.science/hal-04051426>)

auteur

Daniel Claves, Hui Li, Marc Dubois, Younal Ksari

article

Carbon, 2009, 47 (11), pp.2557-2562. [10.1016/j.carbon.2009.04.041](https://doi.org/10.1016/j.carbon.2009.04.041)(<https://dx.doi.org/10.1016/j.carbon.2009.04.041>)

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(<https://uca.hal.science/hal-04051426/bibtex>)

titre

[Fluorine addition to single-wall carbon nanotubes revisited](https://uca.hal.science/hal-04051429)(<https://uca.hal.science/hal-04051429>)

auteur

Daniel Claves, Jérôme Rossignol

article

Chemical Physics Letters, 2009, 468 (4-6), pp.231-233. [10.1016/j.cplett.2008.12.018](https://doi.org/10.1016/j.cplett.2008.12.018)(<https://dx.doi.org/10.1016/j.cplett.2008.12.018>)

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Accès au texte intégral et bibtex

(<https://uca.hal.science/hal-04051429/file/CPL%202009%20final.pdf>) (<https://uca.hal.science/hal-04051429/bibtex>)

titre

[FLUORINATED CARBON NANOTUBES: STATE OF THE ART, TRENDS AND ADVANCED CONCEPTS](https://uca.hal.science/hal-04051421)(<https://uca.hal.science/hal-04051421>)

auteur

Daniel Claves

article

Avery P. Ottenhouse. *Carbon Nanotubes: New Research*, Nova Science Publishers, Inc, pp.341-369, 2009, 978-1-60692-236-1

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Book sections

Accès au texte intégral et bibtex

 (<https://uca.hal.science/hal-04051421/file/2009%20Book%20-%20Chapter%2011.pdf>)  (<https://uca.hal.science/hal-04051421/bibtex>)

2008

titre

[Selective substitution of fluorine atoms grafted to the surface of carbon nanotubes and application to an oxyfluorination strategy](https://uca.hal.science/hal-04051401)(<https://uca.hal.science/hal-04051401>)

auteur

Fadel Chamssedine, Daniel Claves

article

Carbon, 2008, 46 (6), pp.957-962. [10.1016/j.carbon.2008.03.001](https://doi.org/10.1016/j.carbon.2008.03.001)(<https://dx.doi.org/10.1016/j.carbon.2008.03.001>)

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 (<https://uca.hal.science/hal-04051401/file/Carbon%202008%20final.pdf>)  (<https://uca.hal.science/hal-04051401/bibtex>)

titre

[A kinetic, morphological and mechanistic approach of the fluorination of multiwall carbon nanotubes\(https://uca.hal.science/hal-04051409\)](https://uca.hal.science/hal-04051409)

auteur

F. Chamssedine, Daniel Claves

article

Chemical Physics Letters, 2008, 454 (4-6), pp.252-256. [10.1016/j.cplett.2008.01.077](https://dx.doi.org/10.1016/j.cplett.2008.01.077)(https://dx.doi.org/10.1016/j.cplett.2008.01.077)

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DOI : [10.1016/j.cplett.2008.01.077](https://dx.doi.org/10.1016/j.cplett.2008.01.077)(https://dx.doi.org/10.1016/j.cplett.2008.01.077)

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 (https://uca.hal.science/hal-04051409/file/CPL%202008%20final.pdf)  (https://uca.hal.science/hal-04051409/bibtex)

2007

titre

[Magnesium batteries: Towards a first use of graphite fluorides](https://uca.hal.science/hal-04051381)(https://uca.hal.science/hal-04051381)

auteur

Jérôme Giraudet, Daniel Claves, Katia Guérin, Marc Dubois, Francis Masin, André Hamwi

article

Journal of Power Sources, 2007, 173 (1), pp.592-598. [10.1016/j.jpowsour.2007.04.067](https://dx.doi.org/10.1016/j.jpowsour.2007.04.067)(https://dx.doi.org/10.1016/j.jpowsour.2007.04.067)

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 (<https://uca.hal.science/hal-04051381/file/JPSources%202007.pdf>)  (<https://uca.hal.science/hal-04051381/bibtex>)

titre

[Three different modes of fluorine chemisorption at the surface of single wall carbon nanotubes\(
https://uca.hal.science/hal-04051375\)](https://uca.hal.science/hal-04051375)

auteur

Fadel Chamssedine, Daniel Claves

article

Chemical Physics Letters, 2007, 443 (1-3), pp.102-106. [10.1016/j.cplett.2007.06.022](https://dx.doi.org/10.1016/j.cplett.2007.06.022)(<https://dx.doi.org/10.1016/j.cplett.2007.06.022>)

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Accès au texte intégral et bibtex

 (<https://uca.hal.science/hal-04051375/file/CPL%202007.pdf>)  (<https://uca.hal.science/hal-04051375/bibtex>)

titre

[Hole-Doping of Fullerenes and Nanotubes by Way of Intercalation Chemistry](https://uca.hal.science/hal-04051396)(<https://uca.hal.science/hal-04051396>)

auteur

Daniel Claves

article

Journal of Nanoscience and Nanotechnology, 2007, 7 (4-5), pp.1221-1238. [10.1166/jnn.2007.457](https://dx.doi.org/10.1166/jnn.2007.457)(<https://dx.doi.org/10.1166/jnn.2007.457>)

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(<https://uca.hal.science/hal-04051396/file/JNN%202007%20final.pdf>) (<https://uca.hal.science/hal-04051396/bibtex>)

2005

titre

[A Prospective overview of the potential of fluorofullerenes as host-materials for Intercalation chemistry](https://uca.hal.science/hal-04051370)
(<https://uca.hal.science/hal-04051370>)

auteur

Daniel Claves

article

Journal of Physical Chemistry B, 2005, 109 (25), pp.12399-12405. [10.1021/jp051273p](https://dx.doi.org/10.1021/jp051273p)(<https://dx.doi.org/10.1021/jp051273p>)

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(<https://uca.hal.science/hal-04051370/file/JPCB%202005%20final.pdf>) (<https://uca.hal.science/hal-04051370/bibtex>)

2004

titre

[Intercalation of WF6 in the interlayer space of multiwall carbon nanotubes - Structural and morphological aspects](https://uca.hal.science/hal-04051366)(<https://uca.hal.science/hal-04051366>)

auteur

Daniel Claves, J. Giraudet, M.C. Schouler, P. Gadelle, A. Hamwi

article

Solid State Communications, 2004, 130 (1-2), pp.1-5. [10.1016/j.ssc.2004.01.025](https://dx.doi.org/10.1016/j.ssc.2004.01.025)(<https://dx.doi.org/10.1016/j.ssc.2004.01.025>)

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(<https://uca.hal.science/hal-04051366/file/SSC%202004.pdf>) (<https://uca.hal.science/hal-04051366/bibtex>)

2003

titre

[Modifying the electronic properties of multi-wall carbon nanotubes via charge transfer, by chemical doping with some inorganic fluorides](https://uca.hal.science/hal-04051330)(<https://uca.hal.science/hal-04051330>)

auteur

J. Giraudet, M. Dubois, Daniel Claves, J.P. Pinheiro, M.C. Schouler, P. Gadelle, A. Hamwi

article

Chemical Physics Letters, 2003, 381 (3-4), pp.306-314. [10.1016/j.cplett.2003.09.134](https://dx.doi.org/10.1016/j.cplett.2003.09.134)(<https://dx.doi.org/10.1016/j.cplett.2003.09.134>)

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Accès au texte intégral et bibtex

(<https://uca.hal.science/hal-04051330/file/CPL%202003.pdf>) (<https://uca.hal.science/hal-04051330/bibtex>)

2001

titre

[Structural, Bonding, and Electrochemical Properties of Perfluorinated Fullerene C70F56](https://uca.hal.science/hal-04051309)(<https://uca.hal.science/hal-04051309>)

auteur

Daniel Claves, Jérôme Giraudet, André Hamwi, Roland Benoit

article

Journal of Physical Chemistry B, 2001, 105, pp.1739 - 1742. [10.1021/jp0026336](https://dx.doi.org/10.1021/jp0026336)(<https://dx.doi.org/10.1021/jp0026336>)

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titre

[Transition metals oxyfluorides intercalated into graphite: new synthesis route and electrochemical properties](https://uca.hal.science/hal-04051323)(<https://uca.hal.science/hal-04051323>)

auteur

Daniel Claves, Jérôme Giraudet, A. Hamwi

article

Synthetic Metals, 2001, 118, pp.57-63

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titre

[Study of the reactivity of chalcogen hexafluorides with graphite\(https://uca.hal.science/hal-04051298\)](https://uca.hal.science/hal-04051298)

auteur

Daniel Claves, A. Hamwi, Allal Senhaji

article

J. Fluorine Chem., 2001, 110, pp.153-156

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Journal articles

Accès au bibtex



(<https://uca.hal.science/hal-04051298/bibtex>)

titre

[C60-Inorganic fluorides intercalation compounds: some formation condition data and their electrochemical behavior in lithium cell systems\(https://uca.hal.science/hal-04051290\)](https://uca.hal.science/hal-04051290)

auteur

A. Hamwi, Daniel Claves

article

Journal of Fluorine Chemistry, 2001, 107, pp.241-245

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(<https://uca.hal.science/hal-04051290/file/JFC%202001.pdf>)



(<https://uca.hal.science/hal-04051290/bibtex>)

04051290/bibtex)

1999

titre

[The polymorphism of samarium fullerides\(https://uca.hal.science/hal-04051288\)](https://uca.hal.science/hal-04051288)

auteur

Daniel Claves, A. Hamwi

article

Solid State Communications, 1999, 113 (6), pp.357-362. [10.1016/S0038-1098\(99\)00481-0](https://doi.org/10.1016/S0038-1098(99)00481-0)([https://dx.doi.org/10.1016/S0038-1098\(99\)00481-0](https://dx.doi.org/10.1016/S0038-1098(99)00481-0))

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(<https://uca.hal.science/hal-04051288/bibtex>)

1998

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[Crystal chemistry of europium fullerenes](https://uca.hal.science/hal-04051287)(<https://uca.hal.science/hal-04051287>)

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Daniel Claves, Y. Ksari-Habiles, G. Chouteau, Ph. Touzain

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Daniel Claves, Ph. Touzain

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margin-right:1em;} /**/
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