Nom :
Abdelaziz Nait Ajjou

Passion :
découvrir

Domaines de recherche

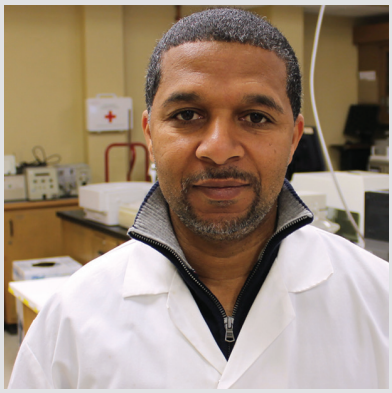
- Procédés sol-gel
- Synthèse des matériaux nano-structurés comme les couches minces transparentes et flexibles (exemples : filtres barrières à oxygène et filtres contre les rayonnements lasers)
- Chimie verte
- Chimie organique
- Catalyses homogène, hétérogène, et dans l'eau pour les réactions d'oxydations, réductions (particulièrement l'hydrogénation des alcènes et nitriles) et couplage
- Chimie organométallique
- Synthèses de produits organiques et pharmaceutiques ayant un intérêt industriel
- Chimie des polymères

Publications

- A. Nait Ajjou, "Aqueous-phase catalytic oxidation, transfer hydrogenation, reductive amination and hydration reactions" Catalysis Today, 2015, 247, 177-181.
- A. Nait Ajjou, A. Rahman, "Water-Soluble Copper Complex Catalyzed Solvent-Free Green Oxidation of Alkylarenes with tert-Butyl Hydroperoxide" Modern Research in Catalysis, 2013, 2, 36-41.
- A. Rahman, S. M. Al Zahrani, A. Nait Ajjou, "An efficient oxidation of benzylic and alicyclic compounds with water-soluble copper catalysts in t-butyl hydroperoxide at room temperature" Chinese Chemical letters 2011, 22, 691-693.
- A. Robichaud, A. Nait Ajjou, "First example of Direct Reductive Amination of Aldehydes with Primary and Secondary Amines Catalyzed by Water-Soluble Transition Metal Catalysts". Tetrahedron Lett. 2006, 47, 3633-3636.

Équipes de recherche

Monsieur Nait Ajjou dirige des projets d'étudiantes et d'étudiants de chacun des cycles d'études. Tous ses projets de recherche ont des applications industrielles importantes et sont à base de la catalyse respectueuse de l'environnement ou à base de procédés sol-gel pour la fabrication de nanomatériaux comme les couches minces.



Abdelaziz Nait Ajjou est professeur au Département de chimie et biochimie de la Faculté des sciences de l'Université de Moncton, campus de Moncton.

04-2016

Name: **Abdelaziz Nait Ajjou**

Passion: **to discover**

Research Interests

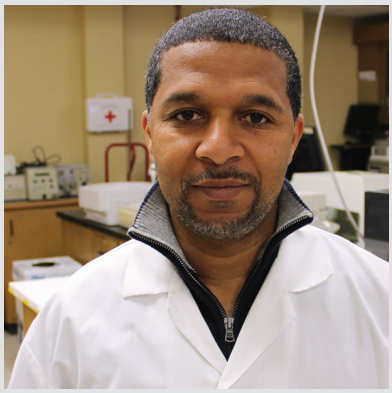
- Sol-gel processes
- Synthesis of nanomaterials, including transparent and flexible thin films (i.e. oxygen barrier filters and laser beam filters)
- Green chemistry
- Organic chemistry
- Homogenous, heterogenous and water-soluble catalysts for oxidation, reduction (in particular hydrogenation of alkenes and nitriles) and coupling reactions
- Organometallic chemistry
- Synthesis of organic and pharmaceutical products of interest to industry
- Polymer chemistry

Publications

- Nait Ajjou, "Aqueous-phase catalytic oxidation, transfer hydrogenation, reductive amination and hydration reactions" Catalysis Today, 2015, 247, 177-181.
- Nait Ajjou, A. Rahman, "Water-Soluble Copper Complex Catalyzed Solvent-Free Green Oxidation of Alkylarenes with tert-Butyl Hydroperoxide" Modern Research in Catalysis, 2013, 2, 36-41.
- A. Rahman, S. M. Al Zahrani, A. Nait Ajjou, "An efficient oxidation of benzylic and alicyclic compounds with water-soluble copper catalysts in t-butyl hydroperoxide at room temperature" Chinese Chemical letters 2011, 22, 691-693.
- A. Robichaud, A. Nait Ajjou, "First example of Direct Reductive Amination of Aldehydes with Primary and Secondary Amines Catalyzed by Water-Soluble Transition Metal Catalysts". Tetrahedron Lett. 2006, 47, 3633-3636.
- A. Nait Ajjou, G. Ferguson, "An Unprecedented Highly Efficient Solvent-Free Oxidation of Alkynes to α,ß–Acetylenic Ketones with tert-Butyl Hydroperoxide Catalyzed by Water-Soluble Copper Complex." Tetrahedron Lett. 2006, 47, 3719-3722.

Research Teams

Professor Nait Ajjou supervises projects by students at all levels of study. All of his research projects have major industrial applications and use environmentally-friendly catalysts or sol-gel processes to manufacture nanomaterials, including thin films.



Abdelaziz Nait Ajjou is a Department of chemistry and biochemistry professor, Faculty of sciences, Université de Moncton, Moncton campus.

04-2016