Dr. Florence EPRON

CNRS Research director

Website

Diploma and positions

✓ Since 2015: CNRS research director at the Institute of Chemistry of Poitiers (France)

✓ 2001: Habilitation to supervise PhD students, University of Poitiers

✓ 1994: CNRS researcher at the Laboratory of Catalysis in Organic Chemistry, Poitiers (France)

✓ 1993-1994: Temporary assistant professor in chemistry, University of Poitiers (France).

✓ 1992-1993: Postdoctoral position at the Laboratory of Catalysis in Organic Chemistry, Poitiers (France)

✓ 1991: PhD in chemistry at the University Pierre et Marie Curie (Paris 6, France)

Management of research

- Head of the research group "From the active site to the catalytic material" (2013-2019) (37 permanent staff, 30 PhD students and post-docs)

- Head of the research group "Catalysis by metals" (2009-2012) (11 permanent staff, 15 PhD students)

- Member of National Committee for Scientific Research (http://www.cnrs.fr/en/national-committee-scientific-research) from 2016, section 14

Areas of Expertise

Heterogeneous catalysis, preparation and characterization of supported mono and multimetallic catalysts, environmental catalysis (removal of pollutants in aqueous), catalysis for energy (hydrogen production, purification and storage, catalytic reforming).

Scientific activities

✓ **92 peer-reviewed publications** in international journals, **7** book chapters and **7** patents
✓ H_{index} = 32 (Web of Science) or 34 (Google scholar), citations : 3088 (2900 without self-citations) 20/01/2020
✓ 6 keynotes/ invited conferences in international events
✓ Responsible or partner in National (ANR, ADEME), European and International programs (China, Argentina, Brazil, India)
✓ Expertise of national and international programs

Awards

✓ **2018 :** Award from French Chemical Society (Distinguished member)

List of 6 representative publications

1. A. Le Valant, F. Drault, C. Maleix, C. Comminges, R. Beauchet, Y. Batonneau, L. Pirault-Roy, C. Especel, **F. Epron**, J. Catal. 367C (2018) 234-243, «Effect of the metallic particle size of supported Pt catalysts on methylcyclopentane hydrogenolysis: understanding of the ring opening products distribution by a geometric approach ».
2. B.K. Ly, B. Tapin, M. Aouine, P. Delichere, **F. Epron,** C. Pinel, Especel, M. Besson, , ChemCatChem 7(14) (2015), 2161-2178, "Insights into the state and location of Re in Re-Pd/TiO_2 catalysts for aqueous-phase selective hydrogenation of succinic acid to 1,4-butanediol as a function of support and methods of Pd and Re deposition".
3. X. Di, G.Lafaye, C. Especel, **F. Epron**, J. Qi, C. Li, C. Liang, ChemSusChem, 12(4) (2019), 807-823, "Supported Co-Re bimetallic catalysts with different structures as efficient catalysts for hydrogenation of citral". (Front Cover)
4. C. Especel, D. Duprez, **F. Epron**, C.R. Chimie, 17 (2014) 790-800, "Bimetallic catalysts for hydrogenation in liquid phase".
5. N. Bion, D. Duprez, **F. Epron**, ChemSusChem,5 (2012) 76-84, Design of nanocatalysts for Green hydrogen production from bioethanol".
6. N. Herault, L. Olivet, L. Pirault-Roy, C. Especel, M. Vicerich, C. Pieck, **F. Epron**, Appl. Catal. A, 517 (2016) 81-90. "Controlled preparation and characterization of Pt-Rh/Al2O3 bimetallic catalysts for reactions in reducing conditions".