David Farrusseng

Born in Montpellier Fance in 1972
PhD from The University of Montpellier, France, in 1999
Post-Doc MPI für Kohlenforschung, Germany, in 2000
Full position at CNRS, Lyon, France, in 2001
Habilitation Diploma from the University of Lyon in 2007
Research Director at CNRS in 2024
Team leader at IRCELYON in 2015
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PROFESSIONAL MEMBERSHIP/AWARDS

- President of the *International Association of Catalysis Societies* (IACS)
- Chairman of the *18th International Catalyis Conference* (ICC)
- Silver Medal of CNRS
- Associate Editor of *New Journal of Chemistry* (RSC)
- IACS Award of the *International Association Catalysis Societies*
- Member of the editorial committee of *ChemCatChem* (Wiley)
- DIVCAT Award from the *French Chemical Society*

SELECT RECENT PUBLICATIONS

1.**Methane pyrolysis into hydrogen and solid carbon: A comparative analysis of conventional and microwave heating approaches**

V. L'hospital, LG. de Araujo, E. Landrivon, A. Mello, M. Radoiu, V. Trillaud,, JF. Meunier, Y. Schuurman, N. Guilhaume, D. Farrusseng, *Catalysis Today*, 2025, https://doi.org/10.1016/j.cattod.2025.115430

2.**Upscaled Al-Fumarate Synthesis and Shaping by Spray Drying**

M. Perbet, T. Aumond, C. Collomb, C. Daniel, I. Imaz, G. Pena, D. Maspoch, T. Michon, R. Morales-Ospino, V. Fierreo, E. Quadrelli, D. Farrusseng, *Industrial & Engineering Chemistry Research*, 2025, **64**(12), 6541-6549

3. **Direct biogas reforming to turquoise H2 and carbon material in a catalytic fluidised-bed reactor**

V. L'hospital, LG. de Araujo, Y. Schuurman, N. Guilhaume, D. Farrusseng, *New Journal of Chemistry*, 2024, **48**(21), 9656-9662

4. **Oxidative coupling of biogas to ethylene over a trilobe-shaped Mn-Na2WO4/α-Al2O3 catalyst in a single-pellet reactor**

V. L'hospital, J. Guillemot, R. Beucher, T. Michon, D. Bonnet, Y. Schuurman, N. Guilhaume, D. Farrusseng, *Applied Catalysis A -General*, 2023, **666**, 119402

5. **On the link between CO surface coverage and selectivity to CH4 during CO2 hydrogenation over supported cobalt catalysts**

T. Bredy, D. Farrusseng, Y. Schuurman, FC Meunier, *Journal of Catalysis*, 2022, **411**, 93-96

6. **Rhodium-Based Metal-Organic Polyhedra Assemblies for Selective CO2 Photoreduction**

AC. Ghosh, A. Legrand, R. Rajapaksha, G. Craig, C. Sassoye, G. Balazs, D. Farrusseng, S. Furukawa, J. Canivet, F. Wisser, *Journal of the American chemical Society*, **144**(8), 3626-3636

7. **Surface effect of nano-sized cerium-zirconium oxides for the catalytic conversion of methanol and CO2 into dimethyl carbonate**

C. Daniel, Y. Schuurman, D. Farrusseng, *Journal of Catalysis*, 2021, **394**, 486-494

URL

https://www.ircelyon.univ-lyon1.fr/en/team/catalyst-and-process-engineering/

Title of the lecture

Methane to H2 and carbon by catalytic pyrolysis

Keywords : Circular economy, fluidized bed, microwave heating, kinetic modelling, graphite, turquoise hydrogen